Brunswick Groundwater RFI III Report

January 28, 2014
Revised September 26, 2014
Revised February 25, 2015
Former Hercules Brunswick Facility

Antea Group Project No. WBS2014B2

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2801 Cook Street
Brunswick, Glynn County, Georgia

Hazardous Waste Facility Permit No.: HW-052(D&S)

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Brunswick Groundwater RFI III Report

EXECUTIVE SUMMARY

A Phase III Groundwater Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) for the Former Hercules Incorporated (Hercules) facility in Brunswick, Georgia was conducted from 2010 to 2014, as part of the requirements of Hazardous Waste Facility Permit - Number HW-052 (D&S), updated on December 4, 2012 by Georgia Department of Natural Resources, Environmental Protection Division (EPD). This work was conducted in accordance with the Phase III Supplemental Groundwater RFI Work Plan dated August 2009 to address groundwater on a site wide basis and at the Solid Waste Management Units (SWMUs) and Areas of Concern (AOCs). Field work conducted as part the Phase III RFI included the following:

- Groundwater screening was conducted in the spring of 2010 to determine the optimum locations for permanent monitoring well clusters.
- Initially, twenty-six (26) permanent groundwater monitoring wells were installed in the spring of 2010. An additional eighteen (18) permanent groundwater monitoring wells were installed in the spring of 2012.
- Non-Aqueous Phase Liquid (NAPL) was evaluated through samples collected in October 2009, April 2010, January 2012, and May 2012.
- Groundwater fluctuations were measured at key monitoring locations in the in 2010 and 2012 to evaluate tidal influences on site groundwater.
- Groundwater sampling of wells installed as part of the Phase III RFI and other previously conducted investigations was conducted in June of 2010 and June of 2012.
- Additional groundwater screening was conducted in the winter of 2013 to determine the optimum locations for permanent monitoring well clusters.
- Monitoring wells MW-55S, MW-55I, and MW-55D were installed on the far eastern edge of the Terry Creek site in December of 2013. Monitoring wells MW-11DD, MW-56D, and MW-57D were installed at on- and off-site locations in July of 2014.

- Off-site supply well sampling was conducted in March of 2014.

Subsequent to the completion of the Phase II RFI in 2008, Georgia EPD and Hercules agreed to conduct the supplemental RFI in order to delineate the groundwater at the remaining SWMUs and AOCs. The objective of the Groundwater RFI was to delineate nature and extent of releases from SWMUs/AOCs in accordance with Georgia EPD's policy and guidance. However, since many of the designated SWMUs are not well defined and, in some cases are not aligned with plant operations or operational history associated with known or suspected releases, Hercules and EPD have agreed on an approach which would view site soil and groundwater holistically instead of on a "SWMU by SWMU" basis. It was also agreed that the soil and groundwater investigations could proceed on independent investigation and corrective action paths.

The site is approximately 340 acres in size with approximately half of the acreage actively used for chemical manufacturing and support operations. The remaining acreage is primarily utilized as stump-wood storage and as a buffer zone. The Terry Creek Dredge Spoil/Hercules Outfall Channel National Priorities List (NPL) Equivalent site (Terry Creek site) and a tidal marsh are located to the east across Highway 17 from the site.

The geology of the site is underlain by the surficial aquifer and is characterized by sequences of sands, silts, clays, with tidal and fluvial depositional environments to an investigated depth of 185 feet (ft.). The surficial aquifer is underlain by dense phosphatic limestone or dolomite, and phosphatic silty clay, which forms the confining unit of up to 90 ft. thick between the surficial aquifer and the upper Brunswick aquifer. The surficial aquifer, characterized by silty sand and discontinuous clay lenses is monitored in both the upper and lower units. The upper unit of the surficial aquifer is further divided into shallow, intermediate, and deep zones. Groundwater flow in the surficial aquifer is generally from west to east, and the average groundwater velocity for the shallow zone of upper unit of the surficial aquifer is approximately 0.040 feet/day (15 feet/year) and approximately 0.019 feet/day (7 feet/year) for the deep zone of upper unit of the surficial aquifer.

Tidal influence was noted in close proximity to the outfall ditch and Dupree Creek but has been shown to have negligible influence on the water table throughout the majority of the site. Projections of the groundwater discharge zone from the lower unit of the surficial aquifer, based on tidal efficiencies, indicated that the discharge zone may be located approximately 1,200 ft. (or greater) east of the MW-39 well cluster.

Eleven Solid Waste Management Units (SWMUs) were identified at the facility in 1994, followed by the addition of 28 SWMUs in 2001 and a recently identified potential Area of Concern (AOCs). The following

SWMUs have been identified as potential source areas of groundwater impact with investigated constituents:

- Former Toxaphene Surface Impoundments (SWMU #10): the primary constituents include benzene, chlorobenzene, xylenes, chloroform, methylene chloride, ethylbenzene, and toluene.
- Xylene Storage Area, Former Drum Crushing Pad (SWMU #4), and (SWMU #30): primary constituents include petroleum volatile organic compounds (VOCs).
- Former Toxaphene Production Area (SWMU #5) and Chemical Plant (SWMU #9): primary VOCs include chloroform, methylene chloride and toluene.
- Light NAPL (LNAPL) Area (AOC-1): the primary constituents include benzene and chlorobenzene.
- Tank Farm (SWMU #6): the primary constituents include benzene and chlorobenzene.

Evaluation of Non-aqueous Phase Liquid (NAPL) at the site has been conducted at the site using monitoring wells and test pits in the past. Recently, an evaluation of the NAPL soil impact was performed during the Triad investigation of soils within AOC-1 at the site. Generally, the NAPL at the site is comprised of varying amounts of acetone, benzene, carbon tetrachloride, chlorobenzene, chloroform, methyl isobutyl ketone (MIBK), paracymene, toluene, and total xylenes. Constituents found in groundwater that have been shown to migrate within the upper unit of the surficial aquifer at the site include benzene, chlorobenzene, total xylenes, toluene, ethylbenzene, chloroform, methylene chloride, and paracymene. Of these compounds, benzene, xylenes, and total chlorinated methanes (carbon tetrachloride, chloroform, and methylene chloride) have developed well-defined plumes at the site extending to the Terry Creek site east of the facility. Of these compounds only benzene, chlorobenzene, and xylene have been shown to have migration potential that extends through the Terry Creek site. Toxaphene, alpha BHC, and gamma BHC (lindane) have also been detected sporadically in samples collected from monitoring wells during previous sampling events. It should be noted that as a result of the EPA Office of Inspector General's investigation of the Hercules 009 Landfill, and to address EPD's concerns, Hercules started quantitating toxaphene using the "Total Area Under the Curve" (TAUC) and "Technical Toxaphene" via SW-846 8081 analysis. In order to evaluate the relative stability of the groundwater plumes with respect these constituents, an overall trend analyses were conducted for several constituents, for different areas of the plume. The stability of the groundwater plume was evaluated by updating and revaluating the Mann Kendall statistical test for key monitoring wells at the site. The overall trend analyses were variable for different areas of the plume. Trends indicated that concentrations in the center of the plume were both increasing and stable. The easternmost portion of the plume showed primarily stable conditions. The northeast portion of the plume adjacent to Highway

17 (MW-26D) was stable to decreasing while the southeast portion of the plume showed increasing trends.

A commercial/industrial well survey conducted in 2001 by NewFields identified water supply wells and irrigation wells screened in the deeper Floridan Aquifer, 200 feet to 800 feet deep. There is a potential for shallow groundwater to discharge to the N Street ditch via infiltration into the existing storm water drainage system in the process areas. The N Street ditch discharges to Dupree Creek via the existing outfall at Highway 17 and the Terry Creek site. Existing control structures and absorbent booms within the N Street ditch and the downstream outfall have prevented direct discharge of impacted surface water to Dupree Creek.

The principle conclusions from the Phase III RFI are as follows:

- The three main constituents at the site that have been shown to have migration potential off-site include benzene, chlorobenzene, and xylenes. Other constituents that have migrated in the groundwater at the site and show a limited extent of migration potential include toluene, ethylbenzene, methylene chloride, chloroform, paracymene, and toxaphene. Toxaphene as quantitated as Total Area Under the Curve (TAUC) and technical toxaphene have been detected sporadically at the site and do not have a defined plume that can be contoured at the site.
- Source areas of VOCs have been identified in the area of the former toxaphene surface impoundments and the process areas. Sources areas include areas where NAPL is present (AOC-1) and where high concentrations of VOCs are present in the shallow and intermediate sands of the upper unit of the surficial aquifer. Trace concentrations of chlorobenzene and benzene detected in the intermediate sands along the eastern edge of the Terry Creek site, and a fairly consistent upward gradient measured at the MW-39 monitoring well cluster, indicate that upward migration of VOCs within the basal sands may be occurring in this area of the site.
- The NAPL data collected to date including NAPL occurrence in monitoring wells, piezometers, test pits, and the laser induced florescence (LIF) and Flute technologies used in the Triad investigation indicates that NAPL in the subsurface is primarily located within AOC-1.
- The horizontal and vertical delineation of constituents in the surficial aquifer onsite has been completed to the extent practical. The tidal marsh defines the eastern extent of the area investigated.

1.0 INTRODUCTION

Antea®Group (formerly Delta Consultants) is pleased to submit the third phase of a Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) for the Former Hercules Incorporated (Hercules) facility in Brunswick, Georgia. This RFI is a requirement of Former Hercules' Hazardous Waste Facility Permit - Number HW-052 (D&S), which was re-issued on October 26, 2007 and updated on December 4, 2012 by Georgia Department of Natural Resources, Environmental Protection Division (EPD) 1. This RFI was conducted in accordance with the Phase III Supplemental Groundwater RFI Work Plan dated August 2009 to address groundwater at the remaining SWMUs and AOCs. This investigation follows the Site Investigation and Human Health/Ecological Risk Assessment processes as described in the Phase III RFI Work Plan. An interim corrective measures workplan was submitted to the EPD on August 22, 2014. The workplan was submitted in response to correspondence from the Georgia EPD, dated December 23, 2013, specifying that Hercules must develop and implement an Interim Measures Plan to perform corrective action beyond the property boundary, where necessary, to protect human health and the environment until such time that the comprehensive site-wide corrective action plan can be developed and approved. The interim corrective measures workplan is comprised of four tasks:

1. Additional field and laboratory data collection, testing, and evaluation prior to selection of potential remedies,
2. Bench and field pilot testing and data evaluation of selected remedies,
3. Design and implementation of selected remedial approach, and
4. Post implementation effectiveness evaluation.

The interim corrective measures workplan was approved on September 17, 2014. Execution of the workplan has already commenced and is moving towards the bench and field pilot testing phase.

1.1 SITE DESCRIPTION AND BACKGROUND

1.1.1 Facility Description

The site is located near U.S. Highway 17 north of the Torras Causeway in Brunswick, Georgia. A site location map is included as **Figure 1**. The site is located within the city limits of Brunswick, Glynn County, Georgia at Latitude 31° 09' 57" N and Longitude 81° 28' 15" W (**Figure 2**). The site is approximately 340 acres in size with approximately half of those acres actively used for chemical manufacturing and support operations. The remaining acreage is primarily utilized as stump-wood storage and as a buffer zone. Adjacent land to the north and west of the site consist of single and multi-

family residential properties. Commercial properties and a park are located to the south. The Terry Creek site and a tidal marsh are located to the east across Highway 17 from the site.

1.1.2 Operational History

Site operations for the manufacturing of wood rosins, turpentine and pine oils began in 1911. The facility was purchased by Hercules in 1920. Between 1948 and 1980, toxaphene was also produced in a processing area near the center of the facility. Other non-rosin products including carboxyl methyl cellulose (CMC), di-isopropyl benzene (DIB) and Kymene (wet-strength resin) were once produced at the site, but are no longer produced at the facility.

1.1.3 Current Manufacturing Operations

Wood rosin and terpene oils are produced primarily from a milling and extraction process of pine stumps that come from the Southeastern US. Following the extraction process, the spent wood chips and distillation residues are used to fuel wood-fired boilers on-site, which are equipped with water scrubbers to remove particulate emissions. The main products produced at the Brunswick plant are pale wood rosin, modified pale wood rosins (produced through disproportionation, hydrogenation and esterification processes) and polyterpenes. Products are used for a wide variety of end uses in the adhesives, printing, and building materials industries and as food additives. The facility also manufactures phosphate esters which are utilized in the manufacture of paint products within the chemical plant area. The Specialty Chemicals Plant built in 1980 currently houses non-rosin-based processes.

Stumps are transported to the facility by truck, stored on-site, then ground and treated with methyl isobutyl ketone (MIBK) to extract the rosin and oils from the wood. Dirt and debris are removed from stumps mechanically. The milling process consists of a series of two grinders that reduce the stumps into fine wood particles to prepare the wood for extraction. The current milling process was constructed in late 2002 which streamlined the previous milling operations. Subsequent separation of the extracted rosin into light and dark rosins utilizes two solvents, isooctanol and furfural. Prior to 1971, a variety of other solvents was used for extraction including benzene.

1.2 Solid Waste Management Units and Areas of Concern

A site conceptual model has been developed for the site and adjacent properties. Overall, the site conceptual model is based on surface or near surface releases of chemical compounds within the individual SWMUs and AOCs to the upper unit of the surficial aquifer. These chemical compounds, when entering the groundwater of the upper unit, behave differently due to differences in solubility,

attenuation coefficients, vapor pressure and density. Migration of these constituents were found to be controlled by the groundwater gradients (both vertical and horizontal) and their chemical characteristics. Generally, those chemical compounds with higher solubility (benzene and chlorinated VOCs) moved downward to the lower unit of the surficial aquifer and then laterally toward the estuary until the vertical gradient changes to upward. Trace to no concentrations of investigated constituents have been reported in the upper and intermediate zones of the upper unit of the surficial aquifer east of Highway 17 near Terry/Dupree Creek. Investigated constituents are volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), pesticides, inorganic compounds, and miscellaneous compounds noted below as specified in the December 4, 2012 Hazardous Waste Facility Permit - Number HW-052 (D&S).

PERMIT INVESTIGATED CONSTITUENTS

Volatile Organics

Acetone	Benzene	2-Butanone	Chlorobenzene
Chloroform	Carbon Disulfide	Carbon Tetrachloride	1,2-Dichlorobenzene
1,4-Dichlorobenzene	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene
1,2-Dichloropropane	Ethyl Benzene	Methylene Chloride	Tetrachloroethene
Toluene	1,2,4-Trichlorobenzene	1,2,3-Trichlorobenzene	Vinyl Chloride
Xylenes			

Semi-Volatile Organics

Benzo(g,h,i)perylene	Dibenz(a,h)anthracene	3,4-Methylphenol	Naphthalene
Phenol	Indeno(1,2,3-cd)pyrene		

Pesticides

Alpha BHC	Gamma BHC (Lindane)	Toxaphene

Inorganics

Arsenic	Barium	Chromium	Cobalt
Nickel	Selenium	Vanadium	Zinc

Miscellaneous

Formaldehyde

Additional investigated constituents include methyl isobutyl ketone (MIBK), paracymene, acetophenone and the pesticides heptachlor and delta-BHC, which have either been used at the facility in the past or have been detected in groundwater during previous sampling events.

Eleven Solid Waste Management Units (SWMUs) were identified at the facility in 1994, followed by the addition of 28 SWMUs in 2001 and a recently identified potential Area of Concern (AOC). However,

since many of the designated SWMUs are not well defined and, in some cases are not aligned with plant operations or operational history associated with known or suspected releases, Hercules and EPD have agreed on an approach which would view site soil and groundwater holistically instead of on a "SWMU by SWMU" basis. This newer approach to RCRA Corrective Action is consistent with EPA's 1999 and 2001 RCRA Cleanup Reforms to promote faster, more focused and more flexible cleanups at RCRA sites (http://www.epa.gov/epawaste/hazard/correctiveaction/reforms/index.htm). This holistic approach has rendered the historical SWMU designations obsolete for considerations of corrective action. Discussion of SWMUs is limited to purposes associated with site characterization and identification of potential source areas of groundwater contamination. The locations of SWMUS that have been identified as potentials sources of groundwater contamination are discussed below and shown on **Figure 3**.

1.2.1 Former Toxaphene Surface Impoundments (SWMU #10)

Five Impoundments, covering about eight acres on the north side of the facility, were used for the equalization and settling of wastewater from the toxaphene manufacturing process. These impoundments were used between 1971 and 1980 to contain neutralized process wastewater produced during the manufacture of toxaphene. In 1980, the production of toxaphene ceased. Hydrochloric acid in the wastewater was neutralized with limestone, producing a calcium chloride solution that was discharged into the impoundments. Sludge was settled in the impoundments, while the water was discharged to the facility outfall. Surface runoff from the toxaphene manufacturing area was directed to the impoundments. In 1984, all remaining sludge and contaminated soil in the impoundments were removed down to the groundwater table and the area was backfilled with clean soil. The unit was subsequently closed under interim status designation in the fall of 1984. In 1993, the samples of groundwater taken from the site showed evidence of contamination. Groundwater monitoring is currently performed semi-annually per the RCRA Permit and has been monitored semi-annually (twice per year) since the mid 1990's.

1.2.2 Former Drum Crushing Pad (SWMU #4), Non-Hazardous Waste Storage Pad (SWMU #30)

SWMU #4 is comprised of a former concrete pad next to the South Vinsol Warehouse and is used as a truck loading area and a scrap material accumulation area. Pallets of empty drums are also stored in this area awaiting return to a supplier for reuse. Empty waste drums in SWMU #4 are crushed and salvaged. A small hydraulic machine for crushing empty drums was located in this area. Soil next to the pad near the drum crusher was stained, apparently due to liquid leakage. This area was constructed and

operated as a drum crushing area during the 1980s. Observed constituent impact to the groundwater in SWMU #4 is below background concentrations. The SWMU #30 area, known as the Non-Hazardous Waste Storage Pad, consists of a raised and curbed concrete retention pad surrounded by a locked, chain-link fence. EPD required a corrective action plan for soils, which was completed in January 2010. The principal constituent in the groundwater at SWMU #30 is total xylenes.

1.2.3 Former Toxaphene Production Area (SWMU #5) and Chemical Plant (SWMU #9)

The Toxaphene Plant, SWMU #5, produced toxaphene from 1948 to 1980. The operating area of this facility was approximately 23,000 square feet. Camphene, produced in the constituent plant from alpha pinene, was reacted with chlorine in carbon tetrachloride in a stage-wise process until it reached 67-69% by weight chlorine to form toxaphene. Hydrogen chloride, a by-product of this operation, was absorbed in water and sold as hydrochloric acid. Wastewater containing weak hydrochloric acid was neutralized with limestone. The plant structure was dismantled in 1984, shortly after the plant shut down in December 1980. Soils within the plant were removed and disposed to allow for the facility to construct a process to produce Myrcene, a perfume ingredient in the 1990s. The Myrcene facility remains on the site, but is no longer in operation and was shut down in 2001. Based on toxaphene soil data collected in the RFI process, the SMWU #5 area was extended. EPD required a corrective action plan (CAP) for soils which was completed in January 2010. The principal groundwater constituents above background concentrations in SWMU #5 are toxaphene and chlorinated VOCs.

The Chemical Plant is an active manufacturing area located south of the former Toxaphene Production Plant (SWMU #5). This SWMU is approximately 90 feet (ft.) by 125-ft. in dimension. The Chemical Plant was formerly used to manufacture synthetic pine oil, synthetic solvenol, and camphene. Crude sulfate turpentine was distilled in the area next to the Chemical Plant. Additional secondary containment upgrades to the area have been installed since 1996. The Chemical Plant was modified in approximately 2007 to produce phosphate esters (Dextrol and Strodex). A new warehouse was constructed north of the Chemical Plant in 2012. Elevated concentrations above background concentrations of toxaphene and chlorinated VOCs, in addition to total xylenes, were detected in the groundwater of SWMU #9.

1.2.4 LNAPL Area (AOC-1)

Based on the results from test pits performed in October 2009, Hercules notified EPD of the LNAPL AOC. The Still House area is located is located southwest of the Chemical Plant (**Figure 4**). AOC-1 is considered to include the area of NAPL impact discussed in **Section 6.2**. The primary constituents associated with AOC-1 near the Still House in the groundwater include benzene, MIBK, toluene, total xylenes, and paracymene.

1.2.5 Tank Farm (SWMU #6)

The Y Tank farm is used as a storage area for the majority of the facility's liquid products, intermediates, and raw materials. There are approximately 20 above ground tanks with capacities ranging from 25,000 to 500,000 gallons. Each tank is isolated by earthen or concrete secondary containment. The tank farm covers approximately 8.5 acres. This SWMU also includes the piping area south and southeast of the tank farm. Products stored here include turpentine; pine oil and solvenol; intermediate products including many distillation cuts; and solvents including MIBK and Soltrol 10 (petroleum distillate). Raw materials stored here include crude sulfate turpentine. Over 95% of the volume of organic liquids stored and handled at the facility is terpene-related compounds including turpentine, pine oil, and solvenol. The primary constituents, based on the May 2012 sampling results, in groundwater associated with SWMU #6 include: benzene, chlorobenzene, chloroform, paracymene, toluene, toxaphene, and xylenes.

2.0 SITE DESCRIPTION AND BACKGROUND

The following sections include descriptions of the following:

- Geographic setting of the area;
- Topography and surface drainage at the facility;
- The regional geology and hydrogeology of the site;
- Hydrogeologic factors that influence groundwater movement; and,
- The potential for constituent migration.

The City of Brunswick is located within Glynn County in the Coastal Plain Physiographic Province. The Coastal Plain Physiographic Province extends throughout Florida and northward into the Mid-Atlantic States. The site topography varies from nearly level to gently sloping with natural relief across the site of approximately 9 ft. The topographic high (16 ft. North American Vertical Datum [NAVD]) on the site is in the northwest area near the former carboxyl methyl cellulose (CMC) plant sloping to the southeast toward Dupree Creek towards the topographic low (7 ft.). Surface water generally drains though the plant's N Street Ditch east towards Dupree Creek, an intertidal saltwater creek. Several soil berms have been constructed on the north side of the site to reduce noise in residential areas.

Most of the site lies within the 100-year floodplain, with the exception of the far northwestern portion of the facility. A floodplain map is included in **Appendix A**. The flood zone is designated with a base flood zone of AE EL 11 ft. NAVD within the central portion of the site, where the tank farm and most of the process areas are located. Further eastward, including the Mill Plant area, the base flood designation is Zone AE EL 12 ft. NAVD. Zones designated AE are subject to inundation by the one-percent-annual-chance flood event. The easternmost area of the plant and across Highway 17 is designated as Zone AE EL 13 ft. NAVD. To the east of Warde Street within the marsh, the flood zone is designated as Zone VE EL 13 ft. NAVD. Zones designated VE are subject to inundation by the one-percent-annual-chance flood event with additional hazards due to storm-induced velocity wave action.

Surface drainage at the facility primarily flows into the N-Street ditch, a concrete-lined ditch that flows through the central and eastern portions of the site toward Highway 17. The western portions of the N-Street ditch are contained in stormwater culverts located along the south side of N-Street in the operations area of the facility. The stormwater culverts discharge to a square concrete basin which is used to separate trash and other floating product via a baffle. Stormwater discharging from the basin flows beneath the baffle, through a culvert into the open concrete-lined portion of the N-Street ditch.

The South ditch, which picks up non-contact cooling water from current plant operations, merges with the N-Street ditch and flows through a culvert underlying Highway 17 into an outfall ditch at the Terry Creek Site. Stormwater within the outfall ditch flows through a weir structure prior to discharging into Dupree Creek. Surface water within the south ditch and the N-Street ditch is tidally influenced.

2.1 Regional Geology

Glynn County lies in the Lower Coastal Plain geologic province. The strata in the Lower Coastal Plain geologic province is comprised of unconsolidated to semi-consolidated layers of sand and clay, and semi-consolidated to very dense layers of limestone and dolomite. The ages of these strata range from Late Cretaceous to Holocene and can reach a known maximum thickness of up to 5,500 ft. in some areas of the Georgia coast. The strata generally strike southwest-northeast and dip to the southeast (Clarke, et. al., 1990).

The upper 2,000 ft. of the Lower Coastal Plain sediments have been investigated extensively since the 1950's. Sediments that outcrop in the region are of Pliocene, Pleistocene, and Holocene age in ascending order. Since these sediments are often difficult to differentiate into separate geologic units, these are generally grouped together into a single unit known as the post-Miocene unit. The post-Miocene unit generally occurs as fluvial sand or residuum in the near surface, underlain by a series of sandy marine terrace deposits that are in turn underlain by marginal to shallow marine beds (Clarke, et. al., 1990). The post-Miocene unit reportedly extends to depths of 180 to 200 ft. below ground surface (bgs) in the region.

Pliocene sediments are generally comprised of coarse clastics, consisting of sands and gravels interbedded with coquina, sands with abundant shells, and lenticular beds of finer-grained materials (Clarke, et. al., 1990; Gregg and Zimmerman, 1974). The thickness of the Pliocene sediments has been reported to range from 40 ft. to 150 ft. in the Brunswick area (Clarke, et. al., 1990; Gregg and Zimmerman, 1974). The overlying Pleistocene and Holocene sediments are a combination of terrace, estuarial, lagoonal, fluvial, dunal, and backbarrier deposits composed of sands, clays, gravels, shells, and mud associated with shallow marine and near-shore depositional environments (Clarke, et. al., 1990; Gregg and Zimmerman, 1974; Wait, 1965).

Miocene sediments underlie the post-Miocene unit to depths exceeding 500 ft. in the Brunswick area. Three geologic units (A through C in descending order) within the Miocene that are bounded by unconformities are described in Clarke, et. al. (1990). The Miocene unit also contains sediments of the Hawthorn formation which is comprised of greenish gray, phosphatic sands, silts, and clays, phosphatic limestone beds, and silty calcareous beds (Clarke, et. al., 1990; Gregg and Zimmerman, 1974; Wait,

1965). Fuller's earth clay is also found in portions of the Hawthorn formation where it forms confining beds within portions of the Miocene unit (Wait, 1965). Clay and silt beds within the Miocene are typically considered confining beds for the Floridan aquifer. Basal carbonate beds reported within the Miocene unit are generally dolomitic, with quartz sands representative of a marine environment. Fine clastics (clay and silt) overlain by sands are often found above the basal dolomites, indicating regressive depositional environments with the Miocene, followed by transgressions (Clarke, et. al., 1990). Miocene sediments are often characterized by the relatively high phosphate content resulting from the remains of marine life, as indicated by gamma activity in geophysical logs (Clarke, et. al., 1990; Gregg and Zimmerman, 1974; Wait, 1965).

Underlying the Miocene unit are limestones of Oligocene and Eocene age. Oligocene and Eocene carbonate formations comprise the upper Floridan aquifer in Florida and southeast Georgia. Oligocene limestone beds consist of buff-colored, porous limestone characterized by the presence of foraminifera and an absence of particulate phosphate (Clarke, et. al., 1990). Underlying the Oligocene unit is the Ocala limestone of the Upper Eocene unit which is characterized as a fossiliferous, bryzoan-rich limestone with glauconite in the lower portion (Clarke, et. al., 1990).

2.2 Regional Hydrology

A total of five aquifers are used for public and industrial water supply in the Brunswick area. These are the surficial aquifer, the upper Brunswick aquifer, the lower Brunswick aquifer, the upper Floridan aquifer, and the lower Floridan aquifer in descending order (Clarke, et. al., 1990).

The surficial aquifer is comprised of post-Miocene sediments and upper Miocene sands ranging in thickness from 65 ft. to 230 ft. (Clarke, et. al., 1990). Clay layers/lenses within the aquifer range from five to 40 ft. in thickness, and where laterally extensive, create semi-confined or confined conditions in the deeper portions of the surficial aquifer (Clarke, et. al., 1990). The surficial aquifer is generally described as consisting of an upper and lower unit.

The surficial aquifer is underlain by dense phosphatic limestone or dolomite, and phosphatic silty clay, which forms the confining unit between the surficial aquifer and the upper Brunswick aquifer. The confining unit is estimated to be approximately 70 ft. to 90 ft. thick in the Brunswick area. The vertical hydraulic conductivity of the confining unit is reported to range from 5.3E-05 ft. per day to 1.3E-04 ft. per day (Clarke, et. al., 1990).

Permeable Miocene sediments comprise the upper and lower Brunswick aquifers, consisting predominantly of poorly sorted, fine to course phosphatic and dolomitic sands. The upper and lower

Brunswick aquifers are separated by a clay confining unit that is estimated to be approximately 50 ft. thick in the Brunswick area (Clarke, et. al., 1990).

The upper Floridan aquifer, which underlies the lower Brunswick aquifer, is highly prolific, with transmissivities exceeding 500,000 ft^2 per day. Reported well yields of 5,000 gallons per minute (gpm) to 10,000 gpm are common in Glynn County from this aquifer (Clarke, et. al., 1990). The top of the Floridan aquifer in the Brunswick area is approximately 500 ft. bgs. Clays and basal dolomites within the Miocene unit, and or Oligocene sediments (Lazaretto Creek Formation) form the confining unit between the lower Brunswick aquifer and the upper Floridan aquifer where present. A dense, dolomitic limestone forms the confining unit between the upper Floridan aquifer and the lower Floridan aquifer. Salt-water intrusion has been documented in the upper Floridan aquifer along the western portion of the Brunswick peninsula (Clarke, et. al., 1990), with chloride concentrations exceeding 2,000 milligrams per liter (mg/L) in some wells (Cherry and Clarke, 2008).

3.0 SITE GEOLOGY AND HYDROGEOLOGY

3.1 Site Geology

A generalized conceptual site model that depicts the geology of the site in cross-section is included as **Figure 5**. During previous environmental assessments of the site, a total of 114 monitoring wells (**Figure 6**) and 36 piezometers have been installed at the facility. The investigative depth of the well installations ranged from about 13 ft. for wells installed within the shallow unit of the surficial aquifer to investigative depths of up to 130 ft. for wells screened in the lower unit of the surficial aquifer. Well construction details are shown on **Table 1** and the boring logs for the monitoring wells are included in **Appendix B**.

The geology of the site is characterized by sequences of sands, silts, clays, and cemented sediments to an investigated depth of 185 ft. A cross-section transect map and associated cross-sections illustrating the geology of the site are included in **Appendix C**. Surficial soils at the site consist of loose, mostly brown, fine to medium sands with typically minor amounts of silt that generally extend to an elevation of -5 ft. and -15 ft. mean sea level (msl). These sediments are consistent with tidal and fluvial depositional environments that allowed the deposition of the larger sand sediments while maintaining the suspension of the finer silts and clays. Beneath the surficial soils lie a series of gray, mostly clean sands representative of high energy dunal and beach deposits that are interrupted by thin layers of silts and clays that are representative of a near-shore environment. This sequence extends to an elevation of approximately -60 ft. msl in the eastern portion of the site and is thinner in the western portion of the site where it extends to a depth of approximately -30 ft. msl. This sequence is underlain by marginal to shallow marine beds. These beds consist of mostly gray very fine sands in the northwest that grade to medium to coarse sands in the southeast with varying amounts of gravel, silt, and clay dispersed throughout. Intervals containing shells are also dispersed throughout this sequence, but appear more prevalent in the northern portion of the site. This sequence is interspersed with discontinuous beds of fines that are more prevalent in the western portion of the site. A distinct interval of gravelly deposits is located primarily in the southeastern portion of the site that may represent a high energy, localized channel deposit. **Appendix D** includes the grain size analysis of select samples obtained during the RFI.

A laterally extensive bed of dry to moist clay and silt occurs throughout most of the site. The top of this bed is undulating and occurs at elevations between -66 ft. msl to -94 ft. msl and extends to known elevations between -76 ft. msl and -109 ft. msl (**Table 2**). A structure map showing the top of the

confining unit is included as **Figure 7**. Underlying this layer are olive green and gray fine sands with localized lenses of predominantly clayey and silty material.

3.2 Site Hydrogeology

3.2.1 Aquifer Characteristics

The groundwater monitoring zones for the upper unit of the surficial aquifer are the shallow, intermediate, and lower. These monitoring zones have monitoring well designations as shallow, intermediate, and lower, respectively. The shallow monitoring wells are typically screened from 10 feet to 20 feet below ground surface (bgs), the intermediate monitoring wells from 35 feet to 45 feet bgs and the deep monitoring wells from 70 feet to 90 feet bgs.

Shallow Monitoring - The upper unit of the surficial aquifer is undulating and generally extends to elevations of between -61 ft. msl to -97 ft. msl and is primarily unconfined with isolated areas under semi-confined conditions. Hydraulic conductivities estimated from single-well aquifer tests range from 0.8 ft. per day to 27 ft. per day (Antea Group, 2010; NewFields, 2001). The shallow zone of the surficial aquifer is characterized by an organic soil horizon (5 to 10 ft. thick) underlain by silty sands and clayey sands to depths up to 30 ft. The average hydraulic conductivity of these sands is approximately 5 ft. per day (**Table 3**). Fine to coarse sands with varying amounts of clay, shells and gravels exist within the central portions of the upper unit.

Intermediate Monitoring - The average hydraulic conductivity of the intermediate zone of the upper unit is approximately 27 ft. per day based on single-well permeability tests performed at monitoring wells MW-20I (screened interval 35 to 45 ft. bgs) and MW-11D (screened interval 38.5 to 55 ft. bgs).

Semi-confining Unit - Very dense, moist to dry silty sands or clayey sands, and thin discontinuous lenses of high plasticity clay dispersed throughout this semi-confining unit. This unit at varying depths may form localized semi-confining units that retard the downward migration of groundwater and/or contaminants in portions of the site.

Lower Monitoring - The lower zone of the upper unit exhibits an average hydraulic conductivity of approximately 4 ft. per day based on slug tests that were conducted in MW-36D (screened interval of 81 ft. to 91 ft. bgs) and UP-1D-R (screened interval of 85 ft. to 95 ft. bgs). Based on hydraulic conductivities estimated by tests performed in shallow, intermediate, and deep monitoring wells at the site, the

average hydraulic conductivity for the upper unit of the surficial aquifer is estimated to be approximately 6 ft. per day.

Lower Confining Unit - Underlying the upper unit of the surficial aquifer in the central and eastern portion of the site (including the Terry Creek site) is a confining silt/clay unit that ranges between 7 ft. and 23 ft. in thickness at locations throughout the site where it was encountered in borings. Olive green and gray fine sands with localized lenses of predominantly clayey and silty material comprise the lower unit of the surficial aquifer at the site. Based on the results of sampling collected with Shelby tubes collected during Sonic drilling activities, as measured in laboratory permeability testing the hydraulic conductivities of the confining unit range from 9.19 E-06 centimeters per second (cm/s) or 2.6E-02 ft. per day at MW-43D to 9.51 E-07 cm/s or 2.7E-03 ft. per day at MW-49D. The hydraulic properties of the confining unit are summarized on **Table 4** and the analytical reports are included in **Appendix D**.

3.2.2 Groundwater Occurrence and Movement

Within the upper surficial aquifer, groundwater occurs at depths ranging from a few feet below ground surface (bgs) in the eastern portion of the site to depths of up to 14 ft. bgs in the western portion of the site. Groundwater elevations generally range from 3 ft. msl in the eastern portion of the facility to up to 11 ft. msl in the western portion of the property. Recent groundwater elevation data from the June 2014 monitoring recorded within monitoring wells screened in the upper unit of the surficial aquifer are included in **Table 5**. Groundwater elevation data from monitoring wells screened in the lower unit of the surficial aquifer are included in **Table 6**.

3.2.3 Horizontal Hydraulic Gradients

Groundwater elevation maps developed from data collected in June 2014 from within the shallow and lower zones of the upper unit of the surficial aquifer are included as **Figure 8** and **Figure 9**, respectively. Groundwater flow within the upper unit of the surficial aquifer is generally towards the east which correlates with the historical groundwater flow direction. Groundwater elevation maps from previous groundwater sampling events are included in **Appendix E.** The groundwater horizontal gradients calculated from groundwater elevation data obtained in June 2014 (**Appendix F**) for the deep zone of the upper unit of the surficial aquifer is 0.0008 ft./ft. (based on groundwater elevations measured in deep monitoring wells MW-19D and MW-20D) and 0.0016 ft./ft. for the shallow zone of the upper unit

of the surficial aquifer (based on groundwater elevations measured in shallow monitoring wells MW-19S and MW-20S).

3.2.4 Vertical Hydraulic Gradients

Vertical hydraulic gradients calculated from groundwater elevations measured in monitoring wells screened in the shallow, intermediate, and lower portions of the upper surficial aquifer generally exhibit a vertical downward gradient throughout the majority of the site. Upward vertical gradients consistently occur along Highway 17 and towards Terry Creek and the marsh. Calculations of the upper surficial unit and the lower surficial unit vertical gradients calculated from a sampling of site-wide gauging events conducted between 2009 and 2014 are included in **Appendix F**.

Vertical Gradients within the Upper Unit

Vertical gradients of the upper unit of the surficial aquifer have been demonstrated to range widely from the upward direction to the downward direction, depending on the location. The variability in the direction and magnitude of the gradients are indicators of the heterogeneity of the upper unit of the surficial aquifer. However, vertical gradients consistently demonstrate a trend in the upward direction along Highway 17 and eastward towards Terry Creek and the marsh.

Vertical Gradients between Upper and Lower Units

Vertical hydraulic gradients were calculated for the monitoring wells tapping the upper and lower units of the surficial aquifer. Vertical gradients calculated were in both the upward and downward direction. The vertical gradients ranged from -0.008 ft. /ft. in the upward direction at both the MW-9D and MW-33 well set and the MW-44 cluster located in the eastern and central portions of the site, to 0.119 ft. /ft. in the downward direction at the MW-37 well cluster located in the western portion of the site, which is both topographically and hydraulically up-gradient with respect to the other well sets where a vertical gradient was calculated. The calculations indicate that the vertical gradient between the upper and lower unit decreases across the site from west to east, which is consistent with historical data evaluated for this site.

3.2.5 Groundwater Flow

The linear groundwater flow velocity for the upper unit of the surficial aquifer was estimated from the modified Darcy equation:

$$V = \frac{K\ (i)}{n}$$

V = Average Linear Flow Velocity

K = Average Hydraulic Conductivity (feet/day)

i = Horizontal hydraulic gradient: (h1 – h2 / L) = feet/foot

n = Estimated Effective Porosity (0.25 cm^3_{void}/cm^3_{soil} or 25%)

Based on previously mentioned horizontal hydraulic gradients of 0.0008 ft./ft. in the deep zone of the upper unit of the surficial aquifer, 0.0016 ft./ft. of the shallow zone of the upper unit of the surficial aquifer, and an average hydraulic conductivity of 6 ft. per day for the surficial aquifer, the groundwater flow velocity for the upper unit of the surficial aquifer at the site is estimated to range from 0.019 ft. per day to 0.040 ft. per day. Groundwater flow calculations are included in **Appendix F**.

Assuming an average thickness for the upper unit of the surficial aquifer of 85 ft., a Darcy velocity (v = ki) of 0.019 ft. per day (7 ft. per year) to 0.040 ft. per day (15 ft. per year), and a site width of approximately 2,400 ft., groundwater flow through the site is estimated to be approximately 3,800 to 8,100 cubic ft. per day, or approximately 28,000 to 61,000 gallons per day.

3.2.6 Local Aquifer Recharge

According to the Georgia Automated Environmental Monitoring Network weather station located at the Coastal Georgia Community College in Brunswick, Georgia, the average annual precipitation in the Brunswick area for the years 2000 through 2009 is 44 inches per year. The rain gauge station is located within one mile of the site. Recharge estimates are reported to be approximately 12 to 16 percent of precipitation for south Georgia (McLemore 1990). Based on reported recharge estimates and an average precipitation of 44 inches per year, approximately five to seven inches of precipitation recharges the aquifer annually. This results in an estimated recharge rate of 240,000 gallons per day per square mile (gpd/mi^2) to 330,000 gpd/mi^2, or approximately 375 gpd/acre to 520 gpd/acre.

Infiltration of precipitation will vary throughout the site depending on the location of paved surfaces, building footprint areas, and unpaved areas where infiltration is unimpeded. Higher infiltration rates occur in unpaved areas in the northwestern portion of the site and in the tank farm area, where rainfall collects within concrete and earthen retaining walls and infiltrates into the earthen base of the tank farm. The remaining water not infiltrating into the ground is lost to overland flow to streams, evapotranspiration through plants or evaporation. Winter rainfall occurs at lower rates allowing for greater infiltration with respect to high rates of rainfall during summer storms. As a result, water level highs generally occur in early spring and water levels are generally lower in the fall.

4.0 TIDAL INFLUENCE

The tidal creeks and marshes located east of the site appear to influence groundwater flow in the eastern portions of the facility and the Terry Creek site. Pressure transducers were installed in select monitoring wells on three separate occasions in order to monitor fluctuations in groundwater elevations in the upper unit of the surficial aquifer. Four monitoring well clusters including MW-19, MW-20, MW-44, and MW-54 were selected for evaluation. The tidally influenced groundwater fluctuations were recorded as listed below:

- On February 10 and 11, 2010, groundwater fluctuations were initially measured at monitoring wells MW-19 S, MW-19I, MW-19D, MW-20 S, MW-20I, and MW-20D over a 24-hour period, at 10-minute intervals.
- From July 21 through 28, 2010, groundwater fluctuations were measured at MW-44S, MW-44I, MW-44ID, MW-54S, and 54I at 30-minute intervals.
- From November 15 through November 21, 2012, groundwater fluctuations were measured in MW-20D and the MW-39 well cluster at one-minute intervals.

4.1 Tidal Groundwater Fluctuations

Pressure transducers were installed in monitoring well clusters MW-19, MW-20, MW-39, MW-44, and MW-54 (**Figure 6**) in order to monitor groundwater fluctuations in response to tidal fluctuations. Graphs of all the recorded tidal fluctuations are included in **Appendix G**. Fluctuations potentially associated with tidal effects were observed in each of the monitoring well clusters measured, with the exception of MW-19. Groundwater elevations were initially measured at existing monitoring wells MW-19S, MW-19I, MW-19D, MW-20S, MW-20I, and MW-20D over a 24-hour period on February 10 and 11, 2010, at ten-minute intervals. Groundwater fluctuations were later measured at monitoring wells MW-44S, MW-44I, MW-44ID, MW-54S, and MW-54I at 30-minute intervals during the period July 21 through 28, 2010, after installation of the additional Phase III Groundwater RFI monitoring wells. From November 15 to November 21, 2012, additional groundwater elevation data were collected from MW-20D and the MW-39 well cluster at one-minute intervals to evaluate groundwater fluctuations and gradients along the tidal front beneath the Terry Creek site. As shown on the graphs included in **Appendix G,** the tidal influence within the shallow monitoring wells and piezometers at the Terry Creek site are significantly lower than those observed in intermediate and deep monitoring wells at the site, with little to no influence observed inland from surface water bodies. Tidal fluctuations evident at MW-39S, and

piezometers PZ-OD9 and PZ-OD10 were approximately 1.5 ft. adjacent to the outfall ditch and Dupree Creek, but dissipate inland from the water bodies. The average magnitude of fluctuations caused by tidal highs and lows in intermediate and deep monitoring wells ranged from 0.18 ft. in MW-44I to 2.14 ft. in MW-39I. Based on groundwater fluctuations measured in monitoring wells, it appears that tidal influence with respect to fluctuations in the groundwater elevations dissipates in the vicinity of MW-54 (**Table 7)**.

4.2 Tidal Impact - Groundwater Velocity

As stated **Section 3.2.5**, the groundwater velocity in the upper unit of the surficial aquifer on site is approximately 13 ft. per year. However, at the down gradient portion of the plume which includes the Terry Creek site the groundwater decreases due to tidal influences. Based on groundwater elevations measured in 2010, horizontal hydraulic gradients in the upper unit of the surficial aquifer within the tidally influenced portion of the site ranged from approximately 0.0009 ft./ft. during tidal highs to approximately 0.0014 ft./ft. during tidal lows. Based on an average hydraulic conductivity of 6 ft. per day for the upper unit and an estimated effective porosity of 25 percent, the average linear groundwater velocity was estimated to be approximately 0.022 ft. per day to 0.034 ft. per day, or approximately 8 to 12 ft. per year. Groundwater elevations at the MW-39 well cluster indicate that an upward vertical gradient exists at this location during low and rising tide, but converge during falling tide (i.e. no vertical gradient). MW-39 is the only well cluster where an upward gradient has been consistently measured. Beneath the Terry Creek site, the hydraulic gradient lessens, and even reverses for a short period during high tide, as evident in the tidal graphs for MW-20D and MW-39D. Tidal influences are minimal in upper unit of the surficial aquifer at an approximate 10 percent reduction in groundwater velocity.

In order to evaluate the effective hydraulic gradient for the site beneath Terry Creek, the average hydraulic gradient was calculated from groundwater elevation data collected from MW-20D and MW-39D during the November, 2012 period to obtain an estimated effective hydraulic gradient of 0.00037 ft./ft. Based on an average hydraulic conductivity value of 6 ft. per day for the upper unit of the surficial aquifer and an estimated effective porosity of 25 percent, the average linear groundwater velocity beneath the Terry Creek site decreases approximately 50 percent to approximately 3 ft. per year.

4.3 Tidal Influence Indicators

Data from the transducers were charted against the Frederick River Bridge tidal prediction station, located approximately 3.9 miles east of the site, to determine lag times and tidal efficiency. Each set of

potentiometric data was compared with respect to the tidal predictions at nearby stations. The Frederick River Bridge station was found to most closely mimic the patterns in the potentiometric surface changes at the site.

4.4 Lag Time

Lag time is a measure of elapsed time between surface water highs and lows, and potentiometric surface highs and lows (Gawne, 1997; Gilmore, et.al., 1992). Lag times could not be calculated for shallow monitoring wells MW-20S and MW-44S, as groundwater fluctuations did not correlate to tidal fluctuations. The lag time for monitoring well MW-39S was approximately 1.7 hours greater than lag times for MW-39I or MW-39D, which were 15 and 19 minutes, respectively, providing additional supporting data that the shallow water bearing zones within the upper unit are influenced differently than the intermediate and deep monitoring wells, which show much closer correlation. Lag times calculated for intermediate and deep monitoring wells were lowest at monitoring wells MW-39I and MW39D (closest to Dupree Creek), and increased to approximately 1.5 hours inland toward MW-44I and MW-44ID (Table 7).

4.5 Tidal Efficiency

Tidal efficiency is the ratio of tidal range of highs and lows in groundwater to the tidal range in surface water. In general, the magnitude of the tidal efficiency decreases with increasing distance from the tidally influenced water body where the tidal efficiency should be approximately 100 percent (Gawne, 1997; Gilmore, et.al., 1992). Tidal efficiencies (**Table 7**) estimated at monitoring well locations were highest at MW-39I and MW-39D, which were approximately 26% to 28% of the surface water tide range. The tidal efficiencies decreased inland toward MW-44I and MW-44D which were approximately 3% of the surface water tide range. Tidal efficiencies further inland were not measurable and are expected to be close to 0%.

4.6 Estimate of Groundwater Discharge

Since tidal efficiencies are exponentially proportional to distance (Gilmore, et.al., 1992), the distance to the point of 100% efficiency for the deep portion of the upper unit was estimated by graphing tidal efficiencies versus distance from MW-54, which is approximately the point of zero tidal influence at the site. This empirical method provides a projection for estimating a potential surface water discharge point for groundwater. Based on tidal efficiency projections, the discharge point is estimated to be

approximately 4,000 ft. from the point of zero tidal influence, or approximately 1,200 ft. east of the MW-39 well cluster. Since this is an exponential empirical relationship, the actual discharge point may be at a greater distance.

In summary, groundwater elevations and tidal fluctuations measured in shallow monitoring wells and piezometers indicate that the tidal influence of nearby surface water bodies on the shallow water table is approximately 1.5 ft. in close proximity to the outfall ditch and Dupree Creek, but have little influence on the water table throughout the majority of the site. Conversely, groundwater fluctuations in the deeper sands of the upper unit where constituents have migrated may be influenced by a discontinuity in the lower clay lens within the upper unit of the surficial aquifer observed below the Terry Creek site. Projections of the discharge zone based on tidal efficiencies indicate that the discontinuity may be located approximately 1,200 ft. (or greater) east of the MW-39 well cluster. The short-term reversal in the groundwater gradient during periods of high-tide and the associated reduction in the effective groundwater velocity beneath the Terry Creek site may decrease the potential for discharge of investigated constituents to the marsh east of the Terry Creek site.

5.0 SITE INVESTIGATION METHODOLOGY

The following sections describe the site investigative methodologies that were used during the implementation of the field activities during this Phase II RFI groundwater investigation. The site activities included groundwater sampling, groundwater screening, and installation of wells using sonic drilling technologies.

5.1 Groundwater Investigation and Sampling Plan

The Phase III Supplemental RFI groundwater investigation was intended to enhance the current site groundwater data, as needed, to: 1) assess whether releases of hazardous constituents from the SWMUs to groundwater have occurred, 2) assess whether these releases have resulted in groundwater constituent levels that exceed regulatory standards, and 3) ultimately develop appropriate risk management/remediation approaches. Where releases to groundwater were detected, the vertical and lateral extent was delineated to Practical Quantitation Limits (PQLs) and the rate of migration of constituents was determined. Consideration was given to the use of interim corrective measures during the groundwater investigation as appropriate. The groundwater investigation proceeded as follows:

1. For a SWMU or group of SWMUs, a conceptual model was developed regarding the characteristics of groundwater contaminant fate and transport and potential receptor exposure concentrations based on available information.
2. A sampling and analysis program was developed and implemented to delineate impacted groundwater.
3. Zones were identified requiring corrective measures and/or management, when an adverse impact for a potential receptor was identified.

5.2 Borehole Clearance

Before breaking the ground surface, all boring and/or excavation locations were cleared of all utilities within 25 ft. of the proposed location(s). The first procedure was to mark the proposed location with marking paint, pin flag, or stake. Once the location was marked a utility locate ticket was called in to "Georgia Utility Protection Center", also known as "One Call" or 811.

A private utility locate service was employed to locate and mark all underground lines within 25 ft. radius of the boring location. This was accomplished used ground penetrating radar (GPR). In addition to GPR, air knifing was utilized to visually confirm the absence of underground utilities.

Air knifing is a non-intrusive method of soil removal which is vital in utility location and to the prevention of releases from unidentified product lines and other utilities. The preferred equipment for this operation is the Vac Master 4000®. This truck mounted unit utilizes high pressure air (200psi) and vacuum technology to remove soil from the subsurface. A 1.5-inch diameter metal rod, referred to as an air lance, is used to loosen the soil. As the subsurface soil is loosened by the air lance, a 4-inch diameter PVC pipe connected to a vacuum extract the soil from the subsurface. All borings were cleared to a minimum of five feet bgs and ten feet bgs in process areas and visually inspected to confirm the absence of underground utilities.

5.3 Boring Advancement Methods

Direct push and sonic drilling were utilized as the drilling methods for this investigation. An explanation of the previously mentioned drilling methods is provided in the following sections.

5.3.1 Sonic Drilling

A sonic drill is more precisely defined as a rotary-vibratory drill. It is capable of high drilling speeds as well as accomplishing tasks, such as continuous coring that cannot be carried out by any other equipment. The biggest difference is in the drill head, which is slightly larger than a standard rotary head. The head contains the mechanism necessary for rotary motion, as well as an oscillator, which causes a high frequency force to be superimposed on the drill string. The drill bit is physically vibrating up and down in addition to being pushed down and rotated. These three combined forces allow drilling to proceed rapidly through most geological formations including most types of rock.

In overburden, the vibratory action causes the surrounding soil particles to fluidize, thereby allowing effortless penetration. In rock, the drill bit causes fractures at the rock face, creating rock dust and small rock particles, which facilitates advancement of the drill bit. Compressed air, drill mud, or plain water can be utilized to remove the cuttings and speed up the operation further, depending on the application that the machine is used for. This is an important requirement for environmental drilling projects because there are little to no cuttings.

The oscillator is driven by a hydraulic motor and uses out-of-balance weights to generate high sinusoidal forces that are transmitted to the drill bit. An air spring is also incorporated in order to confine the alternating forces to the drill string. The frequency can be varied to suit operating conditions and is

generally between 50 and 120 hertz (cycles per second). As a comparison, ordinary household current in many countries alternates at 60 hertz (Hz). This frequency range falls within the lower range of sound vibrations that the human ear is capable of hearing. Thus the term “sonic drill” has been applied to this class of rotary-vibratory drilling machine. The sonic drill apparatus adds vibratory energy to the normal rotary motion. The drill operator can choose a sonic frequency that provides optimum penetration rate and if needed the best core recovery.

The method provides continuous core samples in a wide range of soil types, including soils with large particles that preclude sampling by many other techniques. The drill stem and sampler barrel were vibrated vertically at frequencies between about 50 Hz and 180 Hz such that the sampler barrel normally advances by slicing through the soil. Sampler barrels were provided in different sizes ranging from two-inch to 12-inch diameters. The cutting bit is located at the end of the barrel with tungsten carbide bullets. The sampler barrel is coupled with a "slough" barrel above it. This section was connected on the end of smaller diameter drill stems. An additional drill stem was connected to the drill head, prior to drilling through the next depth interval.

This hole was cased, with the casing being a larger diameter than the sampler barrel. The sampler barrel is generally kept less than 20 feet past the end of the casing. Otherwise, if the entire sampler barrel was positioned below the casing, a potential of caving soil (particularly large particles) could bind against the smaller diameter drill stem and lock the barrel in the ground. The driller continued drilling until the sampler barrel had advanced 10 feet to 20 feet below the casing, or until the barrel no longer advances with the maximum vibrator effort. The sampler barrel was then pulled from the hole with a either a 10 feet or 20 feet long sample depending on tooling of the particular rig. Plastic tube bags were used to collect approximately a five-foot-long section of the sample core. The sampler can often cut through large soil particles (e.g., cobbles), with the resulting sample providing a valuable view of the soil stratigraphy that other drilling techniques cannot provide. Example photographs of cores retrieved during drilling are provided in **Appendix H**.

5.3.2 Direct Push Technology

Direct push technology sampling was used to delineate and characterize groundwater. Direct push technology is hydraulically-powered and uses both static force and percussion to advance sampling and logging tools into the subsurface. In the case of ground water screening, a push point screen/screen point sampler was utilized to obtain a water sample from a predetermined depth. A screen point sampler used was a 41-inch long, one-inch diameter, stainless steel screen, which was housed inside a carrier rod and sealed with a disposable metal tip.

Once the predetermined depth was reached the stainless steel screen was exposed to allow ground water to inter the screen. This was accomplished by the probe rods being pulled up approximately 4 ft., which causes the disposable metal tip to dislodge and the 41-inch long, stainless steel screen to be exposed. A groundwater sample was collected at this point using a peristaltic pump. After a sample was collected, all probe rods, including the push point screen, were removed from the ground and decontaminated.

5.4 Groundwater Sampling - Low Flow Techniques

All groundwater sampling was performed in general accordance with EPA Region IV Science and Ecosystem Support Division (SESD) Field Branches Quality System and Technical Procedures (FBQSTP) "Groundwater Sampling". Two devices were used to collect groundwater samples. These included a peristaltic pump and a stainless steel submersible pump and Teflon® lined tubing.

Depth to groundwater was measured in each well using an electronic water-level indicator probe which was decontaminated between measurements. The measured depth was subtracted from the total depth of the well to determine the volume of groundwater to purge. The monitoring wells were purged in accordance with established methodologies for the site. New nitrile gloves were worn during sampling of each well to minimize the potential for cross-contamination during the sampling process. Field measurements of pH, electrical conductivity, dissolved oxygen, turbidity, oxidation-reduction potential and temperature were collected during sampling activities. Water quality meters were calibrated by field personnel each day of the sampling event. Groundwater samples were collected once purging was completed and field parameters stabilized.

Low flow/low volume purging was used at the site to minimize purge water volumes. For permanently installed wells, the depth of water and depth of the well was determined using a water level indicator or interface meter prior to purging. It is standard practice to mark the top of casing, providing a point of reference from which these measurements will be consistently made. Pump/tubing intakes were placed within the screened interval at the zone of sampling and flow rates did not exceed the recharge rate of the aquifer. Water level stabilization was achieved by monitoring the top of the water column with a water level indicator during the purging process. Caution was exercised during all sampling procedures to prevent cross-contamination of the wells. This is of particular concern when sampling analyses include trace organic compounds or metals. Water level indicators and interface meters were decontaminated between each well using Alconox® solution, followed by rinses with de-ionized water and analyte free water.

Shallow monitoring wells (generally less than 25 ft. from pump to groundwater surface) were purged and sampled using a peristaltic pump with ¼-inch diameter Teflon® tubing. Utilizing a peristaltic pump minimizes turbidity and preserves sample integrity. Groundwater samples submitted for analysis of volatile organic compounds (VOCs) were collected by pumping groundwater in to Teflon® tubing and then removing the tubing from the pump and monitoring well allowing groundwater to drain from the tubing in to sample vials. Groundwater samples analyzed for additional parameters were collected directly from the pump discharge tubing.

Deep monitoring wells were purged and sampled using a decontaminated, stainless-steel submersible pump with ¼-inch diameter Teflon® tubing. Pump placement was set at the midpoint of the screened interval and flow rate was adjusted to minimize the amount of drawdown in each well. Purged groundwater from monitoring wells was containerized in 55-gallon steel drums for proper disposal. New or dedicated Teflon® tubing was used for each sample location. Following sampling of each well, the Teflon® tubing was removed from the well, bagged, sealed, and clearly labeled with each well name for storage.

For all wells sampled, an adequate purge was normally achieved when three to five times the volume of all sampling equipment was removed. With respect to the ground water chemistry, an adequate purge was achieved when the pH, specific conductance, and temperature of groundwater stabilized, and turbidity either stabilized or was below 10 Nephelometric Turbidity Units (NTUs) (twice the Primary Drinking Water Standard of 5 NTUs).

5.5 Well Installation

The following monitoring wells were installed as part of the Phase III Groundwater RFI: MW-37S, MW-37I, MW-37D, MW-38S, MW-38I, MW-38D, MW-39S, MW-39I, MW-39D, MW-40S, MW-40I, MW-40D, MW-41I, MW-42S, MW-42I, MW-42D, MW-43S, MW-43I, MW-43D, MW-44S, MW-44I, MW-44ID, MW-44D, MW-45I, MW-46I, MW-48S, MW-48I, MW-48D, MW-49S, MW-49I, MW-49D, MW-50S, MW-50I, MW-50D, MW-51S, MW-51I, MW-51D, MW-52S, MW-52I, MW-52D, MW-53S, MW-54S, MW-54I, MW-54D, MW-55S, MW-55I, MW-55D, MW-11DD, MW-56D, and MW-57D. Monitoring wells MW-37S, MW-37I, MW-37D, MW-38S, MW-38I, MW-38D, MW-39S, MW-39I, MW-39D, MW-40S, MW-40I, MW-40D, MW-41I, MW-44S, MW-44I, MW-44ID, MW-44D, MW-45I, MW-46I, MW-48S, MW-48I, MW-48D, MW-53S, MW-54S, MW-54I, MW-54D were installed in Spring of 2010. Monitoring wells MW-42S, MW-42I, MW-42D, MW-43S, MW-43I, MW-43D, MW-49S, MW-49I, MW-49D, MW-50S, MW-50I, MW-50D, MW-51S, MW-51I, MW-51D, MW-52S, MW-52I, and MW-52D were installed in Spring of 2012. Monitoring wells MW-55S, MW-55I and MW-55D were installed in December of 2013. Monitoring wells MW-11DD,

MW-56D, and MW-57D were installed in July of 2014. Well construction details and Boring Logs are included in **Appendix B**.

5.6 Groundwater Sampling

Groundwater samples were collected as part of the RFI from select monitoring wells identified in the Phase III Groundwater RFI Work Plan (NewFields, 2009) Groundwater quality data was also collected during semi-annual groundwater sampling events conducted from December 2010 through June 2014.

RFI Groundwater Sampling – Groundwater samples were collected in June 2010 from monitoring wells MW-37S, MW-37I, MW-37D, MW-38S, MW-38I, MW-38D, MW-39S, MW-39I, MW-39D, MW-40S, MW-40I, MW-40D, MW-41I, MW-44S, MW-44I, MW-44ID, MW-44D, MW-45I, MW-46I, MW-48S, MW-48I, MW-48D, MW-53S, MW-54S, MW-54I, MW-54D. Groundwater samples were collected in June 2012 from monitoring wells MW-42S, MW-42I, MW-42D, MW-43S, MW-43I, MW-43D, MW-49S, MW-49I, MW-49D, MW-50S, MW-50I, MW-50D, MW-51S, MW-51I, MW-51D, MW-52S, MW-52I, and MW-52D. Groundwater samples were collected from monitoring wells MW-55S, MW-55I and MW-55D in December 2013. Groundwater samples were collected from monitoring wells MW-11DD, MW-56D, and MW-57D in July 2014. In each of the groundwater sampling events the wells were analyzed for parameters shown on **Table 8** which is in accordance with the Phase III Groundwater RFI Work Plan.

Semi-Annual Groundwater Monitoring Events – The most recent semi-annual sampling event was conducted in June 2014. Semi-annual groundwater samples were collected from monitoring wells as required by Condition IV.D. of RCRA Permit No. HW-052 (D&S), as amended through August 7, 2012 and became effective on December 4, 2012. Point of compliance (POC) and monitoring wells sampled during the June 2014 event included those listed under Condition IV.A. of the permit. Groundwater samples collected from the monitoring wells at the site during the June 2014 semi-annual sampling event were analyzed for parameters as required by Table 1 in Condition IV.B of the permit, amended through August 7, 2012. These parameters include:

Volatile Organic Compounds

- Acetone
- Benzene
- 2-Butanone
- Chlorobenzene
- Chloroform
- Carbon disulfide
- Carbon tetrachloride
- 1,2-Dichlorobenzene
- 1,4-Dichlorobenzene
- 1,1-Dichloroethane
- 1,1-Dichloroethene
- cis-1,2-Dichloroethene
- 1,2-Dichloropropane
- Ethylbenzene
- Methylene chloride
- Tetrachloroethene
- Toluene
- 1,2,4-Trichlorobenzene
- 1,2,3-Trichloropropane
- Vinyl chloride
- Xylenes

Semi-Volatile Organic Compounds, Pesticides, and Formaldehyde

- Phenol
- 3,4-Methylphenol
- Naphthalene
- Benzo(g,h,i)perylene
- Dibenz(a,h)anthracene
- Indeno(1,2,3-cd)pyrene
- Toxaphene (technical)
- Chlorinated Camphenes (total area under the curve toxaphene)
- alpha-BHC
- gamma-BHC(Lindane)
- Formaldehyde

Inorganics

- Arsenic
- Barium
- Chromium
- Cobalt
- Nickel
- Selenium
- Vanadium
- Zinc

Groundwater samples were also analyzed for methyl isobutyl ketone (MIBK) and paracymene which have been used at the facility in the past and have been detected in groundwater during previous sampling events. Other additional compounds analyzed for included the SVOC acetophenone and the pesticides heptachlor and delta-BHC.

6.0 WATER QUALITY

The following sections describe the potential sources of various constituents in groundwater at the site along with a description of the associated SWMUs. The characteristics of the investigated constituents that have shown to have migration potential in the groundwater at the site are also discussed. The most recent groundwater sampling results from the June 2014 sampling event is presented in **Section 6.5**.

6.1 Potential Sources of Investigated Constituents in Groundwater

Based on the RFI III data collected and review of historic data from previous site investigations, the sources of investigated constituents in groundwater at the site are grouped into the areas listed in the following sections. These source areas are grouped based on location and the present and historic chemical constituents present in groundwater. Tables showing the historic groundwater concentrations for the site are included in **Appendix I**. The sampling records associated with the RFI III data are included in **Appendix J.** The laboratory reports, state certification and associated chain of custody documentation for the RFI III data are included in **Appendix K.**

A generalized conceptual site model is included as **Figure 5**. Source areas maps are included as **Figures 3, 4** and **10.** The following sections provide a list of source areas and constituents that have been shown to be mobile within the groundwater beneath the site.

6.1.1 Source Area 1

Former Toxaphene Surface Impoundments (SWMU #10) are located in the northern portion of the facility, between monitoring wells UP-1D and POC2S. Potential other sources in the vicinity include a two-acre equalization basin, former chemical storage tanks for the Still House and a former fuel oil tank for the powerhouse. The primary chemicals in groundwater that are associated with this source area include:

- Benzene
- Chlorobenzene
- Xylene
- Chloroform
- Methylene chloride
- Ethylbenzene
- Toluene

6.1.2 Source Area 2

Includes the Xylene Storage Area, Drum Crushing Pad (SWMU #4), and Non-Hazardous Waste Storage Area (SWMU #30). The xylene storage area, drum crushing pad, and non-hazardous waste storage area encompass the area south of MW-34 extending to the southeast adjacent to the MW-54 well cluster. The primary constituents in groundwater associated with this source area include:

- Xylene
- Ethylbenzene

6.1.3 Source Area 3

The former toxaphene plant area, SWMU #09, is located southwest of SWMU #30 and monitoring well cluster MW-54. The chemical plant area, SWMU #05, is located south of the Former Toxaphene production area in the central portion of the site. The primary constituents in groundwater associated with this source area include:

- Chloroform
- Methylene chloride
- Toluene

The Tank Farm (SWMU #6) and Still House areas are located along the east side of Dubignon Street, which is west of the former toxaphene production plant and the chemical plant. The primary constituents in groundwater associated with this source area include:

- Benzene
- Chlorobenzene

6.2 NAPL Evaluation

Based on previous NAPL investigations the NAPL at the site can be divided into two separate LNAPL areas listed below (**Figure 4**):

NAPL 1 – Has been observed in test pits excavated in the vicinity of the Rosin Storage Pad, Still House and Distillate Tank Farm and has also been observed seeping into the DuBignon Street ditch. This LNAPL comprises a low viscosity product comprised predominantly of para-cymene.

NAPL 2 – Has been observed in the area of the chemical storage warehouse. This NAPL comprises high viscosity product (250 cSt – 250 times more viscous than water) which is comprised of a mixture of wood based compounds (pinene, terpenes, rosins, etc).

Non Aqueous Phase Liquid (NAPL) at the site has been evaluated mainly in the past by installation of monitoring wells, piezometers within the process areas of the facility. There have been some test pits where NAPL samples have been collected. Recently, an evaluation of NAPL soil impact was performed during the Triad investigation of soils within areas of concern at the site. Based on the data collected to date, the extent of the NAPL occurrence at the site is shown on **Figure 4**. A brief summary of the constituents that have been found to occur within the NAPL at the site is included in **Table 9**.

On May 16, 2012, a NAPL sample was collected from MW-42S, located southeast of the tank farm. The NAPL sample from MW-42S had reported concentrations of benzene at 5,500 micrograms per kilogram (µg/kg), chlorobenzene at 2,400 µg/kg, chloroform at 36,000 µg/kg, and technical toxaphene at 1,200 µg/kg. In the MW-42S NAPL sample, elevated detection limits were reported for MIBK, toluene, and total xylene and these compounds were reported as non-detect.

The sample below MW-42S collected from MW-42I was an aqueous sample that had reported concentrations of acetone at 3,100 micrograms per Liter (µg/L), benzene at 2,800 µg/L, and chloroform at 4,600 µg/L. For the MW-42I sample, the aqueous concentrations of MIBK, toluene, and total xylene were reported at 760 µg/L, 120 µg/L, and 190 µg/L, respectively. Technical toxaphene was not detected in MW-42I but contained a reported detection limit of 48 µg/L.

Adjacent to Dubignon Street, a NAPL sample was collected from Test Pit 2 on October 15, 2009. The sample had a reported concentration of benzene at 9,300,000 µg/kg, MIBK at 95,000,000 µg/kg, toluene at 5,700,000 µg/kg, and para-cymene at 510,000,000 µg/kg. Other investigated constituents were either not analyzed for in this sample or were below the reported elevated detection limits.

The Dubignon Street sluice Pit #2B sampled on April 14, 2010 had a reported aqueous concentration of benzene at 1,600 µg/L, MIBK at 36,000 µg/L, toluene at 500 µg/L, and para-cymene at 19,000 µg/L. Other investigated constituents had reported elevated detection limits and were not detected in the sample.

The NAPL sample collected from the Dubignon Street sump on January 15, 2012 had reported MIBK concentrations of MIBK and paracymene at 66,000,000 µg/kg and 54,000,000 µg/kg, respectively. Other investigated constituents had reported elevated detection limits and were not detected.

6.3 Contaminant Characteristics

The physical and chemical properties of investigated constituents that are most commonly measured can affect the following:

- potential to remain in the environment after release;

- potential to migrate in soil, groundwater, surface water and air; and
- potential to degrade or bioaccumulate in the environment.

The following paragraphs describe the physical properties and provide a general description of the expected fate within the environment of the most common constituents identified at the site.

Benzene – Benzene is subject to rapid volatilization when released in soil or water. The benzene that does not volatilize will tend to be highly to very highly mobile in the soil and may leach into the groundwater. Benzene has a specific gravity of 0.88. Benzene is subject to biodegradation in shallow, aerobic aquifers. When released in surface waters, it typically does not adsorb to sediments, but is bioaccumulates in aquatic organisms. The bioconcentration factor (BCF) for benzene is 3.5 to 4.4 in fish. When released in the atmosphere, benzene typically exists in the vapor phase, with an estimated half-life of 13.4 days (EPA Fact Sheet, 2009).

Xylene – Xylene in the forms of orthoxylene, metaxylene and paraxylene are moderately mobile in soil and may leach into groundwater, with low to moderate adsorption potential. Once in groundwater, xylene can persistent for several years. There is some evidence that xylene in groundwater and soil is subject to biodegradation. Bioconcentration of xylene is insignificant, with a BCF of 2.14 to 2.20 for fish. The dominant removal process for xylene from water is volatilization. When released into the atmosphere, xylene may degrade by reaction with hydroxyl radicals, with a half-life of 1 to 18 hours (EPA Fact Sheet, 2009).

Toluene – Toluene exhibits moderate to very high mobility in soils, with little adsorption potential. It is typically lost by evaporation in near-surface soils, but may leach to the groundwater. Toluene has a specific gravity of 0.87. Toluene does biodegrade in groundwater and soils, but is likely to biodegrade slowly at high concentrations due to its toxicity to microorganisms. When released into water, removal can be rapid or take several weeks depending on site specific conditions. When released into the atmosphere, toluene degrades via reaction with hydroxyl radicals. Toluene does not bioconcentrate in aquatic organisms (EPA Fact Sheet, 2009).

Ethylbenzene – Ethylbenzene exhibits moderate mobility, and is moderately adsorbed by soils. When releases do soils, there is a good probability it will leach to groundwater. Evaporation and biodegradation are significant in water, though not under anaerobic conditions. It will not hydrolyze in water or soil. Significant bioconcentration in fish is unlikely. Ethylbenzene is found primarily in the vapor phase when released to the atmosphere. Its main degradation pathway is photochemical degradation through reaction with hydroxyl radicals (EPA Fact Sheet, 2009).

Chlorobenzene – Chlorobenzene is relatively mobile in sandy soil and aquifer material. Biodegradation is very slow. It adsorbs moderately to soils, and leaching into groundwater can be expected. Chlorobenzene has a specific gravity of 1.1 and has a reported half-life of 10 to 11 hours when released to surface waters. Biodegradation can occur in warm months, and is more rapid in fresh water than marine systems. Chlorobenzene has a BCF of 1 to 2 in fish, and therefore is not expected to bioaccumulate in aquatic organisms to any significant degree (EPA Fact Sheet, 2009).

Chloroform – Chloroform adsorbs poorly to soil and is highly mobile. Chloroform is miscible with most organic solvents and is slightly soluble in water. The specific gravity of chloroform is 1.5 and can readily leach to groundwater. Chloroform that is not volatilized in near-surface soils or taken up by plants can migrate long distances through the subsurface. Biodegradation is slow, but can occur under reducing conditions (USGS, 2004). Chloroform can be formed as a degradation product of carbon tetrachloride through reductive dechlorination, and may be found in groundwater at elevated concentrations where degradation of carbon tetrachloride is released to the subsurface.

Methylene Chloride – Methylene chloride tends to volatilize to the atmosphere from the water and soil at the surface, and is highly mobile in soils. In deep, saturated soils that contain no soil air and negligible soil organic carbon, as much as 96% of environmental methylene chloride may be present in the soil-water phase and transported with flowing groundwater. With a specific gravity of 1.3, methylene chloride will have a tendency to mobilize deeper in groundwater. The estimated lifetime for the chemical in the atmosphere is 130 days. In surface soil, volatilization to air is an important fate process for methylene chloride. The biodegradation of methylene chloride has been demonstrated in the laboratory and may occur in subsurface soils; however, biodegradation (except, perhaps in landfills with active microbial populations) is probably not a significant degradation pathway in the soil-groundwater system. Methylene chloride has been shown to hydrolyze slowly. The estimated fish bioconcentration factor (BCF) for methylene chloride of 2 suggests that bio magnification of the chemical in aquatic and terrestrial organisms is not likely (EPA, 1994). Methylene chloride can be formed as a degradation product of chloroform, and may be present in groundwater with chloroform in areas where reductive dechlorination is occurring.

6.4 Groundwater Sampling

Condition IV.D. of RCRA Permit No. HW-052 (D&S), as amended through August 7, 2012 and became effective on December 4, 2012 requires that groundwater samples be collected on a semi-annual basis in accordance with Condition IV of the permit. The most recent semi-annual groundwater sampling event was conducted in June 2014.

Prior to sample collection, monitoring wells were purged in accordance with established methodologies for the site. New nitrile gloves were worn during sampling of each well to minimize the potential for cross-contamination during the sampling process. Field measurements of pH, electrical conductivity, dissolved oxygen, turbidity, oxidation-reduction potential, and temperature were collected during sampling activities, and are included in **Table 10**. Water quality meters were calibrated by field personnel each day of the sampling event. Groundwater samples were collected once purging was completed, and field parameters stabilized.

Deep monitoring wells were purged and sampled using a decontaminated stainless-steel submersible pump with 3/8-inch outside diameter (OD) Teflon® tubing. The pump was lowered into the standing water column and the flow rate was adjusted to minimize the amount of drawdown in each well. Purged groundwater from monitoring wells was containerized into 55-gallon steel drums for proper disposal. New or dedicated Teflon® tubing was used for each sample location. Following sampling of each well, Teflon tubing was removed from the well, bagged, sealed, and clearly labeled with each well ID for storage.

Groundwater samples collected from the monitoring wells at the site during the June 2014 semi-annual groundwater sampling event were analyzed for parameters as required by Table 1 in Condition IV.B of the permit, amended through August 7, 2012. Groundwater samples were also analyzed for the VOCs methyl isobutyl ketone (MIBK) and paracymene, the SVOC acetophenone and the pesticides heptachlor and delta-BHC, which have been detected in groundwater during previous sampling events.

Each of the groundwater samples were collected in laboratory-supplied containers, placed in an ice-filled cooler, and transported under chain-of-custody to Test America Laboratories, Inc. (Test America). Each of the groundwater samples were analyzed for select VOCs by EPA Method 8260, select pesticides by EPA Method 8081, select SVOCs by EPA method 8270, select metals by EPA Method 6020, and formaldehyde by EPA Method 8315. Duplicate groundwater samples were collected from monitoring wells POC-1S and MW-10D.

Measurements of field parameters obtained from groundwater samples collected from groundwater monitoring wells during the June 2014 semi-annual groundwater monitoring event (**Table 10**) indicate that the groundwater in the upper unit of the surficial aquifer at the site primarily ranges from acidic to nearly neutral (pH ranging from 5.44 to 8.01). However, groundwater pH measured at monitoring well MW-19D has exceeded this range in previous monitoring events ranging from 9.73 to 12.05. The stabilized pH of the groundwater collected from monitoring well MW-19D was 12.44. Previous laboratory results for alkalinity (67 mg/l) at MW-19D indicate that the alkalinity is within a normal range for the groundwater at the site. No sources that might produce this high of a pH have been identified up-gradient of the MW-19 well cluster.

Water quality data for each of the monitoring wells sampled during the June 2014 semi-annual groundwater monitoring event are summarized in **Table 11**, **Table 12,** and **Table 13**. Water quality data that exceeded laboratory reporting limits are shown on **Figure 11**, **Figure 12**, and **Figure 13**. The results of analysis of the parameters listed in Table 1 in Condition IV.B of the permit are summarized in the following subsections.

6.5 Current Groundwater Analytical Results

Groundwater analytical results from the most recent semi-annual groundwater sampling event conducted in June 2014 were compared to background water quality as determined from monitoring wells UP-1S and UP-1D(R) as defined by Permit Condition IV.D.7 and to Groundwater Protection Standards (GWPS) listed in Table 1 under Permit Condition IV.B. Since UP-1S and UP-1D(R) are only sampled for the parameters listed in Table 1 in Condition IV.B of the permit on an annual basis, the most recent available results from the December, 2013 monitoring event were used for comparison of current results to background concentrations. No constituents with GWPS standards higher than background were detected in the up-gradient background monitoring wells at concentrations exceeding GWPS. No volatile organic compounds, semi-volatile organic compounds, or pesticides were detected in background monitoring wells UP-1S or UP-1D(R) during the December, 2013 sampling event.

Barium (17 µg/L), chromium (3.5 µg/L) cobalt (0.43 µg/L), and zinc (13 µg/L) were detected in the groundwater sample collected from UP-1S. Barium (28 µg/L), cobalt (0.15 µg/L), nickel (2.7 µg/L), and zinc (16 µg/L) were detected in the groundwater sample collected from UP-1D(R).

6.6 Analytical Results - Point of Compliance (POC) Wells

Volatile Organic Compounds –The VOCs outlined in Section 5.6 were sampled at each point of compliance wells during the June 2014 semi-annual groundwater monitoring event. Of these parameters, 2-butanone, carbon disulfide, carbon tetrachloride, MIBK, methylene chloride, and tetrachloroethene were not detected. Water quality data for volatile organic compounds that exceeded laboratory reporting limits are shown on **Figure 11**. **Table 11** summarizes the results of sampling for VOCs. Trends for select VOCs at select monitoring wells are discussed in detail in Section 7.0.

Semi Volatile Organic Compounds – The SVOCs outlined in Section 5.6 were sampled for during the June 2014 semi-annual groundwater monitoring event. Benzo[g,h,i]perylene, dibenz(a,h)anthracene, indeno[1,2,3-cd]pyrene, 3,4-methylphenol, and phenol were not detected in any of the groundwater samples collected from the point of compliance wells. Water quality data for SVOCs that exceeded

laboratory reporting limits are shown on **Figure 12**. The results of analysis of SVOCs are summarized in **Table 12**.

Pesticides – Each of the pesticides outlined in Section 5.6 were sampled for during the June 2014 semi-annual groundwater monitoring event. Of these, only heptachlor was non-detect. Water quality data for pesticides that exceeded laboratory reporting limits are shown on **Figure 12**. The results of analysis of pesticides are summarized in **Table 12**.

Inorganics (metals) – Each of the metals outlined in Section 5.6 were detected in at least one of the Point of Compliance wells. Water quality data for metals are shown on **Figure 13**. The results of analysis of metals are summarized in **Table 13**.

Miscellaneous Compounds (formaldehyde) – Formaldehyde was detected in wells POC-1S and POC-2S. Formaldehyde detections are shown on **Figure 12**. The formaldehyde results are summarized in **Table 12**.

6.7 Analytical Results – Monitoring Wells

Volatile Organic Compounds – Each of the VOCs outlined in Section 5.6 were sampled during the June 2014 semi-annual groundwater monitoring event. Of these parameters, 2-butanone, carbon disulfide, 1,2,3-trichloropropane, 1,2,4-trichlorobenzene, and tetrachloroethene were not detected. Water quality data for volatile organic compounds that exceeded laboratory reporting limits are shown on **Figure 11**. **Table 11** summarizes the results of sampling for VOCs. Trends for select VOCs at select monitoring wells are discussed in detail in **Section 7.0**.

Semi Volatile Organic Compounds – The SVOCs outlined in Section 5.6 were sampled for during the June 2014 semi-annual groundwater monitoring event. Indeno[1,2,3-cd]pyrene and 3,4-methylphenol were not detected in any of the groundwater samples collected from the monitoring wells. Water quality data for SVOCs that exceeded laboratory reporting limits are shown on **Figure 12**. The results of analysis of SVOCs are summarized in **Table 12**.

Pesticides – Each of the pesticides outlined in Section 5.6 were sampled for during the June 2014 semi-annual groundwater monitoring event. Of these, gamma-BHC, heptachlor, and technical toxaphene were not detected. Water quality data for pesticides that exceeded laboratory reporting limits are shown on **Figure 12**. The results of analysis of pesticides are summarized in **Table 12**.

Inorganics (metals) – The metals outlined in Section 5.6 were sampled during the June 2014 semi-annual groundwater monitoring event. Selenium and vanadium were both not detected in any of the

monitoring wells. Water quality data for metals are shown on **Figure 13**. The results of analysis of metals are summarized in **Table 13**.

Miscellaneous Compounds (formaldehyde) – Formaldehyde was detected in several monitoring wells during the June 2014 semi-annual groundwater monitoring event. Formaldehyde detections are shown on **Figure 12**. The formaldehyde results are summarized in **Table 12**.

6.8 Groundwater Screening

During the RFI III assessment activities, groundwater screening using direct push technology was initially performed March 29, 2010 to April 1, 2010. At that time, three depth intervals were sampled using direct push technology at HP-111-50(A,B,C) through HP-111-58(A,B,C). The groundwater screening was performed to determine the optimum locations for permanent monitoring well clusters. Groundwater screening locations are shown on **Figure 14**. The results and the depth intervals sampled of the groundwater screening are shown on **Table 14**.

Based on the groundwater sampling results performed during the semi-annual monitoring and the RFI III monitoring well sampling, it was determined that additional groundwater screening was needed in the vicinity of monitoring well MW-5 and adjacent to Terry Creek down gradient of monitoring well MW-38. On January 29 and 30, 2013, additional groundwater screening samples were collected at the site using sonic drilling techniques coupled with packer groundwater sampling.

Groundwater samples collected at HP-59 located next to the MW-5 well cluster and HP-60 located adjacent to Terry Creek are shown on **Figure 14**. The groundwater samples were collected from an open borehole that was sealed off at the top using an inflatable packer apparatus. The boring performed at HP-59 was sampled from 89 to 99 ft. bgs. HP-60 was sampled from 20 to 26 ft. bgs, 50 to 56 ft. bgs, and 75 to 86 ft bgs. Prior to collection of the groundwater samples each of the screened intervals was purged until groundwater stabilization parameters (pH, conductivity, turbidity and dissolved oxygen) had stabilized.

HP-59 Results – The groundwater sample collected at HP-59 (**Figure 14**) from the 89 to 99 ft. depth interval had reported concentrations of benzene (230 µg/L), chlorobenzene (8.9 µg/L), ethylbenzene (6.4 µg/L), toluene (70 µg/L), and total xylene (29 µg/L). Toxaphene quantitated as TAUC had a reported at a concentration of 2.9 µg/L. Trace concentrations of dichloromethane (2.3 µg/L), bromoform (3.2 µg/L), chloroform (1.4 µg/L), chlorodibromomethane (5.2 µg/L), styrene (1.3 µg/L), cis-1,2 dichloroethene (0.30 µg/L), and MIBK (3.4 µg/L) were also detected.

HP-60 Results – The groundwater sample collected at HP-60 (**Figure 14**) from the 20 to 26 ft. depth interval had reported concentrations of benzene (1.4 µg/L) and toluene (19 µg/L). Trace levels of chlorobenzene (0.51 µg/L), ethylbenzene (0.36 µg/L), and total xylene (0.89 µg/L), were also reported. Toxaphene quantitated as TAUC was reported at a concentration of 2.8 µg/L from the 20 to 26 ft. depth interval.

Reported concentrations of benzene, from the 50 to 56 ft. depth interval, were benzene (2.9 µg/L), toluene (2 µg/L). Trace concentrations of chlorobenzene, (0.36 µg/L) and total xylene (0.26 µg/L) were also reported. The groundwater sample collected at HP-60 from the 75 to 86 ft. depth interval had reported concentrations of benzene (710 µg/L), chlorobenzene (280 µg/L), cis-1,2 dichloroethene (2.1 µg/L), ethylbenzene (15 µg/L), toluene (22 µg/L), and total xylene (8.3 µg/L). Toxaphene quantitated as TAUC was reported at a concentration of 4.5 µg/L.

7.0 CONSTITUENT MIGRATION

Historic water quality data obtained during previous groundwater sampling events indicate that the predominant constituents found in groundwater that have been shown to migrate within the upper unit of the surficial aquifer at the site include:

- Benzene
- Chlorobenzene
- Xylenes
- Toluene
- Ethylbenzene
- Chloroform
- Methylene Chloride

Of these compounds, benzene, xylenes, and total chlorinated methanes (carbon tetrachloride, chloroform, and methylene chloride) have developed well-defined plumes at the site extending to the Terry Creek site east of the facility. The maximum extent of the contaminant plume is best illustrated by benzene and chlorobenzene concentrations in groundwater along the central portions of the facility and northern portion of the Terry Creek site.

Chloroform and methylene chloride are breakdown products of carbon tetrachloride, which was used in the production of toxaphene. Isoconcentration maps showing source areas of benzene, xylenes and total chlorinated methanes are included as **Figures 15** through **17,** respectively.

Other volatile organic compounds that have been detected within the upper unit sporadically throughout the site and throughout the groundwater monitoring events include acetone, MIBK, carbon tetrachloride, PCE, 1,2-dichloropropane and vinyl chloride. Toxaphene, alpha BHC, and gamma BHC (lindane) have also been detected sporadically in samples collected from monitoring wells during previous sampling events. A technical toxaphene and toxaphene TAUC concentration map is included as **Figure 18**.

7.1 Trend Evaluation

This following summarizes the trend evaluation of select constituents detected historically at the site. The trend evaluation was prepared to evaluate the historical groundwater sampling results in order to better understand the relative stability of groundwater plume at the facility. Historically, commonly detected constituents, benzene, chlorobenzene, total xylenes and methylene chloride, have migrated in an easterly direction through the upper unit of the surficial aquifer from upgradient source areas at the

site. Migration of these volatile organic compounds within the upper unit have extended east of US Highway 17 beneath the Terry Creek site.

In order to evaluate the relative stability of the groundwater plume with respect these constituents, a comprehensive review of the historic data was completed for monitoring wells screened within the deeper sands of the upper unit where migration is occurring in the eastern portion of the facility and beneath Terry Creek Site. The trend analysis was performed for select wells based on the historic concentrations of volatile constituents detected, the relevance of each of each within the groundwater plume, and the location of these wells with respect to the occurrence of the groundwater plume.

7.1.1 Monitoring Wells Evaluated

For this trend evaluation Mann Kendall statistical methods were used on key monitoring wells screened in the lower unit of the surficial aquifer which were chosen along the centerline of the groundwater plume and within select areas hydraulically down gradient of the main area of the plume. The following monitoring wells (**Figure 6**) were chosen for evaluation and are listed below along with a brief summary of the relevance of each of the wells relative to evaluating the groundwater plume:

Monitoring Well MW-10D

Review of the historical groundwater data for monitoring well MW-10D, located adjacent to the west side of US Highway 17, indicates that VOCs including benzene, chlorobenzene, methylene chloride and total xylene have been consistently reported for this well. Monitoring well MW-10D is located within the centerline of the main area of plume. The primary volatile constituents detected in this well have had elevated concentrations, making MW-10D a key well in understanding how the respective constituent concentrations relate to the overall stability of the groundwater plume.

Monitoring Well MW-20D

Groundwater monitoring well MW-20D, located approximately 500 ft. east of monitoring well MW-10D, on the Terry Creek Site across US Highway 17. Monitoring well MW-20D was evaluated for benzene, chlorobenzene, and total xylenes concentrations. Methylene chloride was not detected in this monitoring well prior to December 2013, when it was identified at 23 µg/L (j-flagged value). Subsequently, 7,500 µg/L was most recently reported in MW-20D in June 2014.

Monitoring Well MW-26D

Groundwater monitoring well MW-26D is located approximately 300 ft. northeast of the site adjacent to the west side of US Highway 17 within the northeastern portion of the plume. Review of the historic sampling data indicated that benzene, chlorobenzene, and total xylene concentrations had been

reported for this well during sampling events. Recent sampling events indicate that benzene is the primary constituent that defines the northeast portion of the plume. However, the trend analysis was performed for benzene, chlorobenzene, and xylene concentrations at this location.

Monitoring Well MW-29D

Groundwater monitoring well MW-29D is located on the northwest corner of the Terry Creek Site, approximately 250 ft. north of the outfall which discharges to Dupree and Terry Creek. Benzene concentrations reported for MW-29D are greater than any other well located east of Highway 17.

Monitoring well MW-38D

Groundwater monitoring well MW-38D is located about 400 ft. east of MW-29D and is the farthest down gradient monitoring well with reported benzene, chlorobenzene, and xylene concentrations within the deeper sands of the upper unit of the surficial aquifer.

7.1.2 Trend Evaluation

The trend evaluation included reviewing data from historic sampling events, which included data from as early as 1997 for MW-10D, and from 2000 (MW-20D), 2005 (MWs 26D and 29D), and 2010 (MW-38D). All of the data sets were evaluated through mid-2014 (most recent available data). The data set spanned fewer years for those monitoring wells that were installed in recent years. To identify a linear trend, the Environmental Protection Agency (EPA) Unified Guidance (March, 2009) describes performance of the simple linear regression and the Mann Kendall evaluation. As an initial step in evaluating historic trends in the groundwater plume for this site, a regression analysis incorporated with a Mann Kendall evaluation was chosen. It should be noted that this is an initial step in the process in determining the method for evaluating the significance of variances in groundwater concentrations for this site and that other methods may be deemed more appropriate as additional data is collected and evaluated. Also worthy of note is the representation of non-detects in the data set. For results within the dataset that were non-detect, a value of one-half the reporting limit was used in the evaluation.

7.1.3 Regression Analysis

For each of the data sets, a regression analysis was performed by graphing the constituent concentrations versus time and applying a trend line through the data set to establish if there was an apparent decreasing, increasing, or stable trend with the respective concentrations. For the trend evaluation discussed below, a trend regression analysis was prepared for each of the aforementioned monitoring wells and the respective volatile compounds. Each of the trend graphs is included in **Appendix L**.

Mann Kendall Evaluation – In addition to the regression analysis describe above, a Mann Kendall evaluation was performed to further evaluate the data sets in order to further validate the existence of either a decreasing, increasing or stable trend in concentrations with respect to each of the constituents included in the analysis. The Mann Kendall evaluations and the trend evaluation results for each of the monitoring wells evaluated are included in **Appendix L**. A map showing the well locations and the Mann Kendall results is also included in **Appendix L**. A summary of the trend evaluation is included below.

7.1.4 Trend Evaluation Summary

The following is summary of the trend evaluation provided in **Appendix L**:

Benzene - The Mann Kendall evaluation showed that the benzene concentrations are increasing at MW-20D and MW-29D, decreasing at MW-10D, and are stable with no discernable trend at MW-38D. The Mann Kendall test for benzene concentrations at MW-26D indicates that benzene concentrations are decreasing within the northeastern portion of the plume.

Chlorobenzene – Mann Kendall evaluations of chlorobenzene trends showed that concentrations are increasing in MW-20D, decreasing in MW-26D, stable in MW-10D, and without identifiable trend in MWs 29D and 38D.

Total Xylene – Mann Kendall evaluations of total xylene trends showed that concentrations are increasing in MW-20D, decreasing in MW-26D, and without identifiable trend in MWs 10D, 29D, and 38D.

Methylene Chloride – The Mann Kendall evaluation for methylene chloride at MW-10D showed a probable decreasing trend (decreasing, but with less than 95% confidence factor). Significant concentrations of methylene chloride have not been detected in other wells at the site where a statistical trend could be evaluated.

The overall trend analyses are variable for different areas of the plume. The trending indicates that concentrations in the center of the plume (MW-10D) are stable or decreasing for all constituents analyzed. The easternmost portion of the plume, on the Terry Creek site, has shown primarily stable conditions. The portion of the plume adjacent to Highway 17 (MW-26D) is decreasing for all constituents. The southeast portion of the plume on the Terry Creek site (MW-20D) shows an increasing trend for benzene, chlorobenzene, and total xylenes.

7.2 Conceptual Site Model Summary

A generalized conceptual site model is included as **Figure 5**. The following information summarizes how the model was developed:

- The maximum extent of the contaminant plume is best defined by the benzene and chlorobenzene concentrations in groundwater along the central portions of the facility and northern portion of the Terry Creek site. The areas of contribution for benzene and chlorobenzene in groundwater appear to be predominantly located within the process areas where NAPL is present, and secondarily at the former toxaphene surface impoundments.
- Migration of benzene and chlorobenzene occurs primarily within the upper unit of the surficial aquifer, where investigated constituents migrate vertically within the unit from the shallow and intermediate zones and enter the basal sands of the upper unit within approximately 500 feet from the areas of contribution through discontinuous clay lenses. In the basal sands, the investigated constituents migrate eastward at an average velocity of 13 ft. per year until reaching the tidally influenced zone beneath Dupree Creek where the flow velocity decreases to a rate of approximately 3 ft. per year. An evaluation of groundwater quality data from monitoring wells and recently collected groundwater screening points indicate that VOCs may occur within the basal sands east of the Terry Creek site.
- Trend analysis of benzene, chlorobenzene, and xylenes in down gradient monitoring wells indicate that plume stability may be occurring, but is not fully conclusive at this point in time. While most of the contaminant mass remains within the basal sands, there are indications that a minor amount of the mass is entering the intermediate zone near Dupree Creek, where the vertical hydraulic gradient is predominantly upward during tidal cycles. Tidal influence studies were conducted in 2010 and 2012. Tidal influence graphs are included in **Appendix G**.
- An evaluation of tidal data for the site indicates that groundwater within the basal sands may discharge into the marsh or other surface water bodies east of Dupree Creek between a distance of 1,200 feet east of monitoring well MW-39 (the easternmost monitoring well location) and Back River.

8.0 POTENTIAL OFF-SITE CONSTITUENT MIGRATION

Off-site migration of VOC's within the upper unit of the surficial aquifer have predominantly occurred within the basal sands at depths ranging approximately 80 to 100 ft. bgs (approximately 75 to 95 ft. below the water table). VOCs consistently detected in off-site monitoring wells located near off-site structures (MW-26D, MW-28D, MW-29D, and MW-52D) were evaluated. These deep monitoring wells are screened at depths greater than 70 ft. below the water table. The primary VOCs that comprise the off-site contaminant plume include benzene, chlorinated benzenes, and xylenes. The basal sands are overlain by a large low-permeability lens in the eastern portion of the plumes, which represents an aquitard for the basal sands. Shallow off-site monitoring wells, screened to depths of approximately 25 ft. bgs, have not been impacted by VOC's emanating from the site, and therefore, have been removed from the groundwater monitoring program.

Water Supply Wells – Antea Group reviewed the industrial/commercial supply well survey performed by NewFields in the Phase II Groundwater RFI submitted in 2001 and identified the following groundwater usage on-site or down gradient of the former Hercules facility:

- The existing industrial wells at the facility within the area of impact withdraw groundwater from the Floridan aquifer at depths exceeding 500 ft. (**Figure 19**).
- The former Dixie Obrien company has two wells located northeast of the facility across Highway 17 that are no longer in use. The wells are located on the west and east side of the property and also draw from the Floridan aquifer, ranging in total depth of 810 ft. to 610 ft., respectively.
- A potential irrigation well was identified approximately 400 ft. south of facility adjacent to Highway 17 (**Figure 20**). Construction details were not available for this well.
- A supply well is currently in use at the Terry Creek Trailer Park (**Figure 20**). The surface casing extends to 210 feet bgs and is open hole to a total depth of 750 feet into the Floridan Aquifer. This well was sampled on March 4, 2014 for the permit required parameters routinely analyzed for on-site (select VOCs, SVOCs, formaldehyde, metals and pesticides). Results were below reporting limits for all VOCs, SVOCs and pesticides. Results from sampling are included in **Appendix K**.
- There are four (4) private water supply wells in use at residential properties on Terry Creek Road. Specifically, the wells were located at 5 Terry Creek Road, 8 Terry Creek Road (identified as Blount 8), 10 Terry Creek Road (identified as Blount 10), and 22 Terry Creek Road (identified as Roberts 22). Well completion information is not available; however, the well owners indicate the wells are quite deep and periodically artesian when the nearby Georgia Pacific and Pinova

plants shut down for maintenance or holidays. Three of the four wells were sampled in June 2014 for the permit required parameters routinely analyzed for on-site (select VOCs, SVOCs, formaldehyde, metals and pesticides). Results were below reporting limits for all VOCs, SVOCs and pesticides. Access to the well located at 5 Terry Creek Road was not granted and therefore the well was not sampled. Results from sampling are included in **Appendix K**.

Surface Water Bodies - There is a potential for shallow groundwater to discharge to the N Street ditch via infiltration into the existing stormwater drainage system in the process areas. Infrequent discharges of product to the stormwater drainage system have occurred in the past as a result of fluctuations in the water table. The N Street ditch has been lined with fabriform concrete lining to prevent direct infiltration of contaminated groundwater from the surrounding soils at the facility. The N Street ditch discharges to Dupree Creek via the existing outfall at Highway 17 and the Terry Creek site. Existing control structures and absorbent booms within the N Street ditch and the downstream outfall have prevented direct discharge of impacted surface water to Dupree Creek.

Groundwater at the base of the upper unit of the surficial aquifer has the potential to discharge to the marsh and surface water bodies beyond the Terry Creek site (**Appendix G**). Groundwater within this zone is impacted in the eastern portions of the facility and western portions of the Terry Creek site Based on the review of existing hydrogeologic and water quality data, there is a potential that groundwater may be discharging to Dupree Creek, Terry Creek, or the marsh. However, during April and August 2012, Geosyntec collected 14 surface water samples during both Ebb- and Flood-tide conditions and no site groundwater investigated constituents were identified at concentrations exceeding surface water quality standards per Chapter 391-3-6-.03. According to Geosyntec, grab surface water samples were collected at the head of the N-Street Ditch outfall, upgradient of the outfall channel weir; and, at the confluence of the outfall channel and Terry Creek. A surface water sample location map and an analytical data summary table for the April and August 2012 samples are included in **Appendix M**.

9.0 SUMMARY

The following summarizes groundwater conditions at the site based on the completion of the RFI III assessment activities to date and review of the historic groundwater data for the site.

Extent, Migration and Stability of Investigated Constituents

The three primary constituents present at the site include benzene, chlorobenzene, and xylenes. Based on the data reviewed to date, other constituents that are present in minor concentrations and have migrated in the groundwater, but show a limited extent of migration include toluene, ethylbenzene, methylene chloride, chloroform, para-cymene, and Toxaphene quantitated as TAUC. Technical toxaphene and TAUC have been detected sporadically at the site but do not exhibit a defined, consistent plume. The groundwater plume has been delineated within the surficial aquifer on the site.

Source areas of volatile organic compounds have been identified in the area of the former toxaphene surface impoundments and the process areas. Process areas include zones where NAPL is present (AOC-1), and in former process areas where high concentrations of VOCs are present in the shallow and intermediate sands of the upper unit of the surficial aquifer. The primary constituents of the NAPL include benzene, chlorobenzene, para-cymene, and xylene.

Downward migration of VOCs from the shallow and intermediate sands of the upper unit occurs within approximately 500 ft. down gradient of the source areas. Low permeability lenses exist, within the upper unit of the surficial aquifer at depths of up to 81 ft. bgs in portions of the site which retard the downward flow of groundwater in those areas of the site. The gaps within these confining lenses are present within the central portions of the facility in the process areas and in areas down gradient of the former toxaphene surface impoundment, which allow the downward migration of investigated constituents into the basal sands of the upper unit of the surficial aquifer.

The VOCs within the basal sands of the upper unit of the surficial aquifer migrate eastward from the central and eastern portions of the facility, above the main confining unit separating the upper unit and the lower unit of the surficial aquifer. The top of the confining unit is generally found at elevations ranging from -60 to -97 ft. msl. Migration of VOCs within the basal sands of the upper unit extend to the eastern edge of the Terry Creek Site, where benzene was detected (710 µg/L) in a direct-push sample collected from the basal sands of the upper unit. Later, in December of 2013, a permanent cluster of monitoring wells (MW-55) was installed. Results of sampling in June of 2014 confirmed the presence of benzene in the basal sands (1,300 µg/L).

Trace concentrations of chlorobenzene and benzene were detected in the intermediate sands along the eastern edge of the Terry Creek site where a fairly consistent upward gradient at the MW-39 monitoring well cluster has been observed, indicating that upward migration of VOCs within the basal sands may be occurring in this area of the site.

The extent of elevated constituents is defined in both the shallow, intermediate and deep zones of the surficial aquifer to the north, west and east. Concentrations of benzene have been measured with the within the basal sands of the upper unit extend to the eastern edge of the Terry Creek Site.

The results of the trend analyses discussed in **Section 7.1** indicated that the easternmost portion of the plume, on the Terry Creek site, has shown primarily stable conditions. The portion of the plume adjacent to Highway 17 (MW-26D), is decreasing for all constituents. The southeast portion of the plume on the Terry Creek site (MW-20D) shows an increasing trend for benzene, chlorobenzene, and total xylenes.

Tidal Evaluation

Evaluation of groundwater fluctuations subject to tidal influence within the basal sands of the upper unit indicate that groundwater may be discharging within the marsh or surface water bodies east of Dupree Creek. This zone of discharge may extend east beyond the marshlands to the Back River. The effective groundwater gradient within the tidal influence zone was estimated to be approximately 0.0004 ft./ft., resulting in an average groundwater flow velocity of approximately 3 ft. per year within the tidal influence zone.

Interim Corrective Measures

An interim corrective measures workplan was submitted to the Georgia EPD on August 22, 2014. The workplan was submitted in response to correspondence from the Georgia EPD, dated December 23, 2013, specifying that Hercules must develop and implement an Interim Measures Plan to perform corrective action beyond the property boundary, where necessary, to protect human health and the environment until such time that the comprehensive site-wide corrective action plan can be developed and approved.

The interim corrective measures workplan was approved via email by the Georgia EPD on September 17, 2014. Execution of the workplan has already commenced and is moving towards the bench and field pilot testing of the remedies outlined in the interim corrective measures workplan.

Off-Site Supply Well Sampling

Hercules has identified the presence of residential water supply wells on the properties that border Terry Creek Road. Hercules has already obtained property access agreements and sampled the water supply well at the Terry Creek Mobile Home Park, and two other properties. Results for VOCs, SVOCs and pesticides were below reporting limits at each of the off-site supply wells sampled thus far. Results of the supply well sampling are discussed in **Section 8.0** above.

Additional On-Site Delineation

During discussions between Hercules and Georgia EPD regarding deep zone benzene and chlorobenzene groundwater impacts, concern was expressed that there may be a monitoring gap on-site midway between monitoring wells MW-29 and MW-44. Hercules has installed monitoring well MW-11DD, adjacent to existing wells MW-11S and MW-11D, in the deep zone of the upper unit of the surficial aquifer. Groundwater sampling is discussed above in **Section 5.6** above.

Additional Off-Site Delineation

Hercules has successfully executed an access agreement with Mr. Ron Adams following his request that the horizontal extent of contamination on his property be refined, and Hercules has installed two (2) additional monitoring wells (MW-56D and MW-57D) in the deep zone of the upper unit of the surficial aquifer. Groundwater sampling is discussed above in **Section 5.6** above.

10.0 REMARKS

The recommendations contained in this report represent Antea Group's professional opinions based upon currently available information and are arrived at in accordance with currently acceptable professional standards. This report is based upon a specific scope of work requested by the client. The Contract between Antea Group and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this report were performed. This report is intended only for the use of Antea Group's client and anyone else specifically listed on this report. Antea Group will not and cannot be liable for unauthorized reliance by any third party. Other than as contained in this paragraph, Antea Group makes no expressed or implied warranty as to the contents of this report. Previous data reported by others is assumed to be accurate.

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12.0 CERTIFICATIONS

Plant Certification

I certify under the penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with systems designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted to the best of my knowledge and belief, is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Timothy Hassett,
Hercules Incorporated

Registered Professional Certification

I certify that I am a qualified groundwater scientist who has received a baccalaureate or postgraduate degree in natural science or engineering, and have sufficient training and experience in groundwater hydrogeology and related fields, as demonstrated by state registration and completion of accredited university courses, that enable me to make sound professional judgments regarding groundwater monitoring and contaminant fate and transport. I further certify that this report was prepared by me or by a subordinate working under my direction.

Darin A. Hintz, P.G.
Professional Georgia Registration No. 002121

Tables

TABLE 1
WELL CONSTRUCTION DETAILS
FORMER HERCULES BRUNSWICK FACILITY
BRUNSWICK, GA

Well ID	Northing	Easting	Aquifer Group	TOC Elev. (famsl)	Ground Elev. (famsl)	Boring Term. (ft. bgs)	Well Term. (ft. bgs)	Screened Int. (ft. bgs)	Depth TOS (ft. bgs)	TOS Elev. (famsl)	Depth BOS (ft. bgs)
MW-1S	425325.8	871609.6	Upper	9.21	6.7	10.5	10.5	0.5 - 10.5	0.5	6.2	10.5
MW-1D	425321.9	871608.5	Upper	9.50	6.7	30.2	30.2	20.2 - 30.2	20.2	-12.0	30.2
MW-2S	425200.9	871588.9	Upper	8.99	6.8	10.8	10.8	3.8 - 10.8	3.8	3.0	10.8
MW-2D	425195.9	871588.6	Upper	9.05	6.8	34.5	34.5	24.5 - 34.5	24.5	-13.9	34.5
MW-3S	425718.1	871407.6	Upper	10.84	8.4	10.5	13.0	3.1 - 13	3.1	5.3	13.0
MW-3D	425716.7	871412.0	Upper	10.88	8.4	32.5	35.0	25.1 - 35	25.0	-16.6	35.0
MW-4	425431.1	871896.2	Upper	9.24	6.8	27.0	25.0	15 - 25	15.0	-8.2	25.0
MW-5S	425252.0	871894.8	Upper	9.31	6.7	27.0	25.5	15.5 - 25.5	15.5	-8.8	25.5
MW-5I	425247.6	871894.8	Upper	9.10	6.7	37.0	35.5	25 - 35	25.0	-18.3	35.0
MW-6	425090.9	871875.5	Upper	8.72	6.3	27.0	25.5	15.5 - 25.5	15.5	-9.2	25.5
MW-7	425478.6	871672.0	Upper	9.06	6.6	27.0	25.5	15.5 - 25.5	15.5	-8.9	25.5
MW-8	425018.4	871655.8	Upper	9.97	7.4	27.0	25.5	15.5 - 25.5	15.5	-8.1	25.5
MW-9S	423982.6	872055.0	Upper	8.42	6.0	20.5	20.5	13.2 - 20.5	13.2	-7.2	20.5
MW-9D	423987.6	872053.1	Upper	8.82	5.5	84.0	83.2	76.1 - 83.2	76.1	-70.6	83.2
MW-10S	424312.9	872320.2	Upper	8.87	6.4	20.0	18.0	10.0-18.0	9.8	-3.4	17.5
MW-10D	424316.0	872323.5	Upper	9.31	6.0	95.5	95.5	87.8 - 95.4	87.8	-81.8	95.4
MW-11S	424867.8	872437.5	Upper	7.82	5.4	20.5	20.5	13.8 - 20.5	13.8	-8.4	20.5
MW-11D	424864.6	872440.5	Upper	8.26	4.9	56.0	55.0	48.5 - 55	48.5	-43.6	55.0
MW-11DD	424866.6	872461.5	Upper	8.23	5.20	95.0	91.0	81 - 91	81.0	-75.8	91.0
MW-12S	425600.7	872109.7	Upper	10.18	7.6	20.5	20.5	11.6 - 20.5	11.6	-4.0	20.5
MW-12D	425596.4	872108.9	Upper	10.72	7.5	104.5	104.5	95.4 - 104.5	95.4	-87.9	104.5
MW-13	424302.4	872746.7	Lower	10.64	7.7	150.0	132.0	122 - 132	122.0	-114.3	132.0
MW-14S	423982.7	871201.5	Upper	7.85	7.6	15.0	15.0	5 - 15	5.0	2.6	15.0
MW-14D	423979.9	871193.7	Upper	7.64	7.3	87.0	87.0	77-87	77.0	-69.7	87.0
MW-15S	424830.1	871272.9	Upper	10.18	7.8	15.0	15.0	5 - 15	5.0	2.8	15.0
MW-15D	424927.8	871264.2	Upper	9.98	7.4	90.0	90.0	80 - 90	80.0	-72.6	90.0
MW-16S	423507.4	869672.3	Upper	13.80	10.8	20.0	15.0	5 - 15	5.0	5.8	15.0
MW-16D	423499.7	869670.8	Upper	13.60	11.1	82.0	80.0	70-80	70.0	-58.9	80.0
MW-17S	424809.7	869189.6	Upper	14.38	11.8	15.0	15.0	5 - 15	5.0	6.8	15.0
MW-17D	424803.6	869192.6	Upper	14.49	11.8	85.0	85.0	75-85	75.0	-63.2	85.0
MW-18	426528.7	868825.3	Lower	20.32	17.6	132.0	132.0	122 - 132	122.0	-104.4	132.0
MW-19S	426289.5	868932.3	Upper	20.66	18.6	15.0	15.0	5 - 15	5.0	13.6	15.0
MW-19I	426287.3	868927.3	Upper	20.95	18.4	45.0	45.0	35 - 45	35.0	-16.6	45.0
MW-19D	426291.8	868940.2	Upper	20.99	18.0	83.0	83.0	71-83	71.0	-53.0	83.0
MW-20S	424176.2	872825.8	Upper	10.57	7.9	15.3	15.3	5 - 15	5.0	2.9	15.0
MW-20I	424179.8	872823.8	Upper	10.54	8.0	45.0	45.0	35 - 45	35.0	-27.0	45.0
MW-20D	424185.0	872819.9	Upper	9.99	7.7	90.0	90.0	80 - 90	80.0	-72.3	90.0
MW-21	424317.0	870454.1	Upper	9.81	8.4	15.0	15.0	5.0 - 15.0	5.0	3.4	15.0
MW-22	424347.0	870491.1	Upper	9.66	8.3	14.7	14.7	4.67 - 14.67	4.7	3.6	14.7
MW-23	424392.1	870474.3	Upper	9.85	8.7	14.0	14.0	4.0 - 14.0	4.0	4.7	14.0
MW-24	424374.6	870415.9	Upper	9.71	7.0	15.0	15.0	4.8 - 14.8	4.8	2.2	14.8

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FORMER HERCULES BRUNSWICK FACILITY
BRUNSWICK, GA

Well ID	Northing	Easting	Aquifer Group	TOC Elev. (famsl)	Ground Elev. (famsl)	Boring Term. (ft. bgs)	Well Term. (ft. bgs)	Screened Int. (ft. bgs)	Depth TOS (ft. bgs)	TOS Elev. (famsl)	Depth BOS (ft. bgs)
MW-25S	423393.4	870992.3	Upper	10.40	11.5	15.0	15.0	5-15	5.0	6.5	15.0
MW-25D	423393.3	870982.2	Upper	10.30	11.2	82.0	80.0	70-80	70.0	-58.8	80.0
MW-26S	425332.2	872431.3	Upper	7.25	7.4	16.0	15.0	5 - 15	5.0	2.4	15.0
MW-26D	425330.3	872441.3	Upper	7.11	7.4	90.0	90.0	80 - 90	80.0	-72.6	90.0
MW-27D	424775.7	868899.2	Upper	14.78	12.6	90.5	90.5	80.5 - 90.5	80.5	-67.9	90.5
MW-28D	424096.6	872456.4	Upper	8.65	5.9	91.0	91.0	81 - 91	81.0	-75.1	91.0
MW-29I	424954.4	872667.9	Upper	8.74	6.1	50.5	50.5	40.5 - 50.5	40.5	-34.4	50.5
MW-29D	424964.1	872668.0	Upper	9.12	6.4	89.8	89.8	79.75 - 89.75	79.8	-73.4	89.8
MW-30S	426102.4	870791.0	Upper	12.36	10.0	16.0	15.0	5 - 15	5.0	5.0	15.0
MW-30D	426101.7	870800.9	Upper	12.38	9.9	90.5	90.5	80.5 - 90.5	80.5	-70.6	90.5
MW-31D	425661.3	869693.6	Upper	16.30	13.8	90.5	90.5	80.2 - 90.2	80.2	-66.4	90.2
MW-32D	425877.6	871596.9	Upper	12.50	10.1	90.0	90.0	79.8 - 89.8	79.8	-69.7	89.8
MW-33	424112.7	871782.1	Lower	9.17	6.6	132.0	130.0	120 - 130	120	-113.4	130.0
MW-34	425390.4	870377.0	Lower	13.95	11.4	136.0	130.2	120.2 - 130.2	120.2	-108.9	130.2
MW-35D	423542.9	871554.9	Upper	10.18	7.8	91.0	91.0	80.7 - 90.7	80.7	-72.9	90.7
MW-36D	425660.7	868489.0	Upper	15.74	13.2	91.0	91.0	81 - 91	81.0	-67.8	91.0
MW-37S	427021.4	867926.2	Upper	17.15	14.3	25.0	25.0	15-25	15.0	-0.7	25.0
MW-37I	427022.2	867920.7	Upper	16.91	14.2	80.0	75.0	60-75	60.0	-45.8	75.0
MW-37D	427022.6	867917.2	Lower	16.81	14.4	150.0	110.0	100-110	100.0	-85.6	110.0
MW-38S	424935.4	873054.8	Upper	8.64	5.8	25.0	25.0	10-25	10.0	-4.2	25.0
MW-38I	424936.7	873051.9	Upper	8.75	5.8	55.0	55.0	40-55	40.0	-34.2	55.0
MW-38D	424939.0	873047.6	Upper	8.69	5.8	100.0	85.0	75-85	75.0	-69.2	85.0
MW-39S	424321.7	873717.4	Upper	9.38	6.9	21.0	21.0	6-21	6.0	0.9	21.0
MW-39I	424316.0	873719.3	Upper	9.51	6.9	55.0	55.0	45-55	45.0	-38.1	55.0
MW-39D	424309.7	873721.5	Upper	9.79	6.9	150.0	85.0	75-85	75.0	-68.1	85.0
MW-40S	424370.1	869355.2	Upper	14.15	11.6	25.0	25.0	10-25	10.0	1.6	25.0
MW-40I	424365.4	869354.6	Upper	14.05	11.7	55.0	55.0	40-55	40.0	-28.3	55.0
MW-40D	424362.7	869354.3	Lower	14.11	11.7	150.0	110.0	100-110	100.0	-88.3	110.0
MW-41I	425872.1	871633.3	Upper	12.36	9.7	48.0	48.0	38-48	38.0	-28.3	48.0
MW-42S	424651.6	870489.3	Upper	11.52	8.8	20.0	20.0	10-20	10.0	-1.2	20.0
MW-42I	424643.9	870491.4	Upper	11.43	8.8	50.0	50.0	40-50	40.0	-31.2	50.0
MW-42D	424657.9	870487.0	Upper	11.54	8.7	105.0	98.0	88-98	88.0	-79.3	98.0
MW-43S	424639.3	871552.9	Upper	9.94	7.0	20.0	20.0	10-20	10.0	-3.0	20.0
MW-43I	424637.4	871545.2	Upper	9.93	7.1	50.0	50.0	40-50	40.0	-32.9	50.0
MW-43D	424636.8	871537.0	Upper	9.96	7.1	107.0	99.0	89-99	89.0	-81.9	99.0
MW-44S	424874.7	871756.3	Upper	11.75	9.2	21.0	21.0	11-21	11.0	-1.8	21.0
MW-44I	424877.6	871754.9	Upper	11.77	9.3	55.0	55.0	40-55	40.0	-30.7	55.0
MW-44ID	424880.1	871753.3	Upper	11.77	8.9	100.0	100.0	90-100	90.0	-81.1	100.0
MW-44D	424883.5	871751.7	Lower	11.79	9.0	150.0	130.0	120-130	120.0	-111.1	130.0
MW-45I	423892.0	870162.2	Upper	13.74	11.0	60.0	55.0	40-55	40.0	-29.0	55.0
MW-46I	423608.1	871022.7	Upper	10.92	8.3	60.0	55.0	40-55	40.0	-31.7	55.0

TABLE 1
WELL CONSTRUCTION DETAILS
FORMER HERCULES BRUNSWICK FACILITY
BRUNSWICK, GA

Well ID	Northing	Easting	Aquifer Group	TOC Elev. (famsl)	Ground Elev. (famsl)	Boring Term. (ft. bgs)	Well Term. (ft. bgs)	Screened Int. (ft. bgs)	Depth TOS (ft. bgs)	TOS Elev. (famsl)	Depth BOS (ft. bgs)
MW-48S	424383.3	870157.6	Upper	11.04	8.8	25.0	25.0	10-25	10.0	-1.2	25.0
MW-48I	424390.9	870164.9	Upper	10.94	8.7	55.0	55.0	40-55	40.0	-31.3	55.0
MW-48D	424392.8	870154.6	Upper	10.99	9.0	100.0	91.0	81-91	81.0	-72.0	91.0
MW-49S	424230.9	870730.9	Upper	10.00	10.1	20.0	20.0	10-20	10.0	0.0	20.0
MW-49I	424229.7	870726.5	Upper	9.85	10.1	67.0	67.0	57-67	57.0	-46.9	67.0
MW-49D	424232.1	870735.1	Upper	9.79	10.1	103.0	96.0	86-96	86.0	-75.9	96.0
MW-50S	422953.1	872360.3	Upper	7.82	7.8	20.0	20.0	10-20	10.0	-2.2	20.0
MW-50I	422952.7	872366.4	Upper	7.88	7.9	46.0	46.0	36-46	36.0	-28.1	46.0
MW-50D	422952.2	872372.5	Upper	8.01	8.1	100.0	88.0	78-88	78.0	-69.9	88.0
MW-51S	423424.6	872733.4	Upper	6.71	7.0	20.0	20.0	10-20	10.0	-3.0	20.0
MW-51I	423430.1	872734.5	Upper	6.75	7.1	50.0	50.0	40-50	40.0	-32.9	50.0
MW-51D	423435.3	872735.5	Upper	6.68	7.1	110.0	86.0	76-86	76.0	-68.9	86.0
MW-52S	425611.9	872662.5	Upper	7.26	7.6	20.0	20.0	10-20	10.0	-2.4	20.0
MW-52I	425604.1	872662.9	Upper	7.33	7.5	50.0	50.0	40-50	40.0	-32.5	50.0
MW-52D	425608.4	872668.8	Upper	7.41	7.5	110.0	89.0	79-89	79.0	-71.5	89.0
MW-53S	424165.6	871731.4	Upper	10.01	7.0	21.0	21.0	6-21	6.0	1.0	21.0
MW-54S	424965.8	870896.4	Upper	11.16	8.8	25.0	25.0	10-25	10.0	-1.2	25.0
MW-54I	424962.3	870897.8	Upper	11.09	8.8	55.0	55.0	40-55	40.0	-31.2	55.0
MW-54D	424957.9	870899.8	Upper	11.11	8.8	100.0	90.0	80-90	80.0	-71.2	90.0
MW-55S*	873353.4	424924.4	Upper	8.07	5.28	25.0	25.0	10-25	10.0	-4.7	25.0
MW-55I*	873363.2	424922.8	Upper	7.92	5.07	55.0	55.0	40-55	40.0	-34.9	55.0
MW-55D*	873358.3	424923.6	Upper	7.81	5.31	85.0	85.0	75-85	75.0	-69.7	85.0
MW-56D	425400.1	873176.7	Upper	5.58	5.90	105.0	103.0	93-103	93.0	-87.1	103.0
MW-57D	425877.6	872717.1	Upper	6.90	7.30	95.0	92.0	82-92	82.0	-74.7	92.0
POC-1S	425678.7	871047.2	Upper	15.70	13.7	22.0	20.0	10.0 - 20.0	10.0	3.7	20.0
POC-1D	425687.8	871049.2	Upper	14.74	13.1	107.0	103.0	93 - 103	93.0	-79.9	103.0
POC-2S	425519.6	871187.1	Upper	18.13	16.6	25.5	23.0	13 - 23	13.0	3.6	23.0
POC-2D	425529.0	871189.3	Upper	18.54	16.4	103.6	103.6	93.6 - 103.6	93.6	-77.3	103.6
POC-3S	425382.1	871181.3	Upper	10.75	8.8	17.0	13.5	3.0 - 13.5	3.0	5.8	13.5
POC-3D	425392.1	871180.7	Upper	11.57	9.7	97.0	91.6	81.8 - 91.6	81.8	-72.2	91.6
UP-1S	426133.2	869994.0	Upper	15.23	12.9	15.5	14.0	2.5 - 14	2.5	10.4	14.0
UP-1D-R	426123.3	869993.2	Upper	15.00	12.9	95.5	92.0	82 - 92	82.0	-69.1	92.0

Notes:

* Wells were surveyed on 12/17/13.

ft. bgs - feet below ground surface

famsl - feet above mean sea level

TOC - top of casing

TOS - top of screen

BOS - bottom of screen

TABLE 2
DEPTHS AND ELEVATIONS OF CONFINING UNIT
FORMER HERCULES BRUNSWICK FACILITY
BRUNSWICK, GA

Well ID	Aquifer Group	Boring Term. (ft. bgs)	Top of Casing Elev. (famsl)	Ground Elev. (famsl)	Depth toTop of Confining Unit (ft.)	Bottom of Confining Unit (ft. bgs)	Top of Confining Unit (famsl)	Bottom of Confining Unit (famsl)	Thickness of Confining Unit (ft)
MW-9D	Deep Upper	84.0	8.82	5.5	83	NE	-78	NE	--
MW-10D	Deep Upper	95.5	9.31	6.0	95	NE	-89	NE	--
MW-11DD	Deep Upper	95.0	8.23	5.2	91	NE	-86	NE	--
MW-12D	Deep Upper	104.5	10.72	7.5	104	NE	-97	NE	--
MW-13	Lower	150.0	10.64	7.7	85	100	-77	-92	15.0
MW-14D	Deep Upper	87.0	7.64	7.3	85	NE	-78	NE	--
MW-15D	Deep Upper	90.0	9.98	7.4	NE	NE	NE (-82)	NE	--
MW-16D	Deep Upper	82.0	13.60	11.1	72	NE	-61	NE	--
MW-17D	Deep Upper	85.0	14.49	11.8	NE	NE	NE (-73)	NE	--
MW-18	Lower	132.0	20.32	17.6	100	115	-82	-97	15.0
MW-19D	Deep Upper	83.0	20.90	17.9	NE	NE	NE (-65)	NE	--
MW-20D	Deep Upper	90.0	10.30	7.7	85	NE	-77	NE	--
MW-25D	Deep Upper	82.0	10.27	11.2	85	90	-74	NE	--
MW-26D	Deep Upper	90.0	7.11	7.4	NE	NE	NE (-83)	NE	--
MW-27D	Deep Upper	90.5	14.78	12.6	NE	NE	NE (-78)	NE	--
MW-28D	Deep Upper	91.0	8.65	5.9	NE	91	NE (-85)	NE	--
MW-29D	Deep Upper	89.8	9.12	6.4	NE	NE	NE (-84)	NE	--
MW-30D	Deep Upper	90.5	12.38	9.9	72	87	-62	-77	15.0
MW-31D	Deep Upper	90.5	16.30	14.0	NE	NE	NE (-77)	NE	--
MW-32D/MW-41I	Deep Upper	100.0	12.50	10.1	80	NE	-70	NE	--
MW-33	Lower	132.0	9.17	6.6	83	109	-76	-102	26.0
MW-34	Lower	136.0	13.95	11.4	95	109	-84	-98	14.0
MW-35D	Deep Upper	91.0	10.18	7.8	87	NE	-79	NE	--
MW-36D	Deep Upper	91.0	15.74	13.2	NE	NE	NE (-78)	NE	--
MW-37D	Lower	150.0	16.81	14.4	75	100	-61	-86	25.0
MW-38D	Deep Upper	100.0	8.69	5.8	87	95	-81	-89	8.0
MW-39D	Deep Upper	150.0	9.79	6.9	87	95	-80	-88	8.0
MW-40D	Lower	150.0	14.11	11.7	80	100	-68	-88	20.0
MW-42D	Deep Upper	105.0	11.54	8.7	99	NE	-90	NE	--
MW-43D	Deep Upper	107.0	9.96	7.1	100	NE	-93	NE	--
MW-44D	Lower	150.0	11.79	9.0	100	120	-91	-111	20.0
MW-48D	Deep Upper	100.0	10.99	9.0	91	NE	-82	NE	--
MW-49D	Deep Upper	103.0	9.79	10.1	97	NE	-87	NE	--
MW-50D	Deep Upper	100.0	8.01	8.1	90	NE	-82	NE	--
MW-51D	Deep Upper	110.0	6.68	7.1	94	NE	-87	NE	--
MW-52D	Deep Upper	110.0	7.41	7.5	90	100	-83	-93	10.0
MW-54D	Deep Upper	100.0	11.11	8.8	NE	NE	NE (-91)	NE	--
MW-55D (HP-60)	Deep Upper	85.0	7.81	5.3	96	NE	-91	NE	--
MW-56D	Deep Upper	105.0	5.58	5.9	103	NE	-97	NE	--
MW-57D	Deep Upper	95.0	6.9	7.3	92	NE	-85	NE	--
POC-1D	Deep Upper	107.0	14.74	13.1	104	NE	-91	NE	--
POC-2D / EB-1	Deep Upper	103.6	18.54	16.4	111	126	-95	-110	15.0
POC-3D	Deep Upper	97.0	11.57	9.7	NE	NE	NE (-82)	NE	--
UP-1D-R	Deep Upper	95.5	15.00	12.9	74	79	-61	-66	5.0

Notes:

NE - not encountered

NE (-82) - not encountered; elevation of bottom of boring

ft. bgs - feet below ground surface

famsl - feet above mean sea level

TOC - top of casing

-- - information not available

TABLE 3
HYDRAULIC CONDUCTIVITY DATA
FORMER HERCULES BRUNSWICK FACILITY
BRUNSWICK, GA

Well ID	Screened Interval (ft bgs)	Hydraulic Conductivity [1]		Average Hydraulic Conductivity	
		cm/sec	ft/day	cm/sec	ft/day
UP-1S[2]	4-10	2.3E-03	6.5	2.3E-03	6.4
POC-1S[2]	12-22	1.8E-03	5.1		
POC-2S[2]	15-25	1.5E-03	4.2		
POC-3S[2]	5-10	1.2E-03	3.4		
MW-20I	35-45	9.5E-03	27.0		
MW-11D	45-51	3.0E-03	8.4		
MW-36D	81-91	2.9E-04	0.8		
POC-1D[2]	97-107	6.1E-04	1.7		
POC-2D[2]	97-107	1.6E-03	4.5		
POC-3D[2]	87-97	1.4E-03	4.0		
UP-1D[2]	85-95	5.5E-04	1.6		
UP-1D-R	86-96	3.5E-03	9.8		

[1] Based on individual well aquifer test.

[2] Newfields, 2001.

TABLE 4
CONFINING UNIT PROPERTIES
FORMER HERCULES BRUNSWICK FACILITY
BRUNSWICK, GA

Sample ID	Sample Type	Depth (feet)	Core Recovery (feet)	Moisture Content (%)	Dry Bulk (g/cc)	Porosity Total (%)	Hydraulic Conductivity (cm/s)	Fraction Organic Carbon (g/g)
MW-43	Shelby	105 to 107	2.5	12.9	1.72	34.9	9.19E-06	NA
MW-49	Shelby	101 to 103	2.5	18.0	1.71	36.7	9.51E-07	NA
MW-51S	Composite	10 to 20	10	NA	NA	NA	NA	6.80E-03
MW-52I	Composite	36 to 46	10	NA	NA	NA	NA	2.15E-03
MW-52D	Composite	76 to 86	10	NA	NA	NA	NA	5.40E-04

Notes:
NA = Not Analyzed
g/g = gram per gram
cm/s = centimeters per second
g/cc = grams per cubic centimeter

TABLE 5
GROUNDWATER ELEVATION DATA - UPPER UNIT MONITORING WELLS
FORMER HERCULES BRUNSWICK FACILITY
BRUNSWICK, GA

Well ID	Date	Time	TOC Elevation (ft)	Depth to Water (ft)	Water Elevation (ft)
UP-1S	6/9/2014	13:45	15.23	4.89	10.34
UP-1D-R	6/9/2014	13:45	15.00	9.11	5.89
POC-1S	6/9/2014	14:00	15.70	8.36	7.34
POC-1D	6/9/2014	13:58	14.74	9.86	4.88
POC-2S	6/9/2014	14:36	18.13	11.25	6.88
POC-2D	6/9/2014	14:34	18.54	13.95	4.59
POC-3S	6/9/2014	14:26	10.75	3.98	6.77
POC-3D	6/9/2014	14:28	11.57	7.02	4.55
MW-1S	6/9/2014	15:44	9.21	4.51	4.70
MW-1D	6/9/2014	15:42	9.50	4.65	4.85
MW-2S	6/9/2014	15:48	8.99	4.47	4.52
MW-2D	6/9/2014	15:46	9.05	4.49	4.56
MW-3S	6/9/2014	14:02	10.84	4.27	6.57
MW-3D	6/9/2014	14:04	10.88	4.35	6.53
MW-4	6/9/2014	15:38	9.24	4.15	5.09
MW-5S	6/9/2014	15:34	9.31	4.95	4.36
MW-5I	6/9/2014	15:36	9.10	4.98	4.12
MW-6	6/9/2014	15:32	8.72	4.65	4.07
MW-7	6/9/2014	15:40	9.06	3.72	5.34
MW-8	6/9/2014	15:22	9.97	5.92	4.05
MW-9S	6/9/2014	16:02	8.42	5.47	2.95
MW-9D	6/9/2014	16:04	8.82	4.98	3.84
MW-10S	6/9/2014	15:58	8.87	5.69	3.18
MW-10D	6/9/2014	16:00	9.31	6.17	3.14
MW-11S	6/9/2014	15:54	7.82	5.15	2.67
MW-11D	6/9/2014	15:56	8.26	4.69	3.57
MW-12S	6/9/2014	15:52	10.18	5.39	4.79
MW-12D	6/9/2014	15:50	10.72	7.41	3.31
MW-14S	6/9/2014	16:12	7.85	2.09	5.76
MW-14D	6/9/2014	16:10	7.64	2.81	4.83
MW-15S	6/9/2014	15:18	10.18	4.87	5.31
MW-15D	6/9/2014	15:20	9.98	5.42	4.56
MW-16S	6/9/2014	11:12	13.80	7.55	6.25
MW-16D	6/9/2014	11:14	13.60	8.23	5.37
MW-17S	6/9/2014	11:51	14.38	5.18	9.20
MW-17D	6/9/2014	11:49	14.49	8.26	6.23
MW-19S	6/9/2014	11:43	20.66	9.50	11.16
MW-19I	6/9/2014	11:41	20.95	9.87	11.08
MW-19D	6/9/2014	11:39	20.99	14.21	6.78
MW-20S	6/9/2014	17:09	10.57	6.27	4.30
MW-20I	6/9/2014	17:11	10.54	7.10	3.44
MW-20D	6/9/2014	17:13	9.99	6.55	3.44
MW-21	6/9/2014	14:51	9.81	1.73	8.08

TABLE 5
GROUNDWATER ELEVATION DATA - UPPER UNIT MONITORING WELLS
FORMER HERCULES BRUNSWICK FACILITY
BRUNSWICK, GA

Well ID	Date	Time	TOC Elevation (ft)	Depth to Water (ft)	Water Elevation (ft)
MW-22	6/9/2014	14:49	9.66	1.58	8.08
MW-23	6/9/2014	14:47	9.85	1.54	8.31
MW-24	6/9/2014	14:45	9.71	1.73	7.98
MW-25S	6/9/2014	11:02	10.40	4.86	5.54
MW-25D	6/9/2014	11:00	10.30	5.91	4.39
MW-26S	6/9/2014	16:55	7.25	3.31	3.94
MW-26D	6/9/2014	16:53	7.11	3.49	3.62
MW-27D	6/9/2014	11:17	14.78	10.41	4.37
MW-28D	6/9/2014	16:42	8.65	5.09	3.56
MW-29I	6/9/2014	17:19	8.74	5.01	3.73
MW-29D	6/9/2014	17:17	9.12	5.56	3.56
MW-30S	6/9/2014	13:54	12.26	4.25	8.01
MW-30D	6/9/2014	13:52	12.38	7.05	5.33
MW-31D	6/9/2014	13:40	16.30	10.39	5.91
MW-32D	6/9/2014	14:07	12.50	8.28	4.22
MW-35D	6/9/2014	16:14	10.18	6.19	3.99
MW-36D	6/9/2014	11:20	15.74	10.14	5.60
MW-37S	6/9/2014	11:24	17.15	5.50	11.65
MW-37I	6/9/2014	11:26	16.91	9.46	7.45
MW-38S	6/9/2014	17:25	8.64	5.59	3.05
MW-38I	6/9/2014	17:23	8.75	5.15	3.60
MW-38D	6/9/2014	17:21	8.69	5.13	3.56
MW-39S	6/9/2014	17:03	9.38	8.09	1.29
MW-39I	6/9/2014	17:05	9.51	6.25	3.26
MW-39D	6/9/2014	17:07	9.79	6.72	3.07
MW-40S	6/9/2014	12:00	14.15	7.18	6.97
MW-40I	6/9/2014	11:58	14.05	7.32	6.73
MW-41I	6/9/2014	14:09	12.36	8.31	4.05
MW-42S	6/9/2014	14:38	11.52	4.15	7.37
MW-42I	6/9/2014	14:36	11.43	5.38	6.05
MW-42D	6/9/2014	14:40	11.54	6.05	5.49
MW-43S	6/9/2014	15:01	9.94	4.11	5.83
MW-43I	6/9/2014	14:59	9.93	5.51	4.42
MW-43D	6/9/2014	14:57	9.96	5.59	4.37
MW-44S	6/9/2014	15:30	11.75	7.15	4.60
MW-44I	6/9/2014	15:26	11.77	7.65	4.12
MW-44ID	6/9/2014	15:28	11.77	7.59	4.18
MW-45I	6/9/2014	11:09	13.74	7.28	6.46
MW-46I	6/9/2014	10:58	10.92	6.11	4.81
MW-48S	6/9/2014	13:31	11.04	3.72	7.32
MW-48I	6/9/2014	13:29	10.94	4.31	6.63
MW-48D	6/9/2014	13:37	10.99	5.00	5.99
MW-49S	6/9/2014	14:56	10.00	2.29	7.71
MW-49I	6/9/2014	14:54	9.85	4.35	5.50
MW-49D	6/9/2014	14:52	9.79	4.49	5.30

TABLE 5
GROUNDWATER ELEVATION DATA - UPPER UNIT MONITORING WELLS
FORMER HERCULES BRUNSWICK FACILITY
BRUNSWICK, GA

Well ID	Date	Time	TOC Elevation (ft)	Depth to Water (ft)	Water Elevation (ft)
MW-50S	6/9/2014	16:16	7.82	4.35	3.47
MW-50I	6/9/2014	16:18	7.88	5.19	2.69
MW-50D	6/9/2014	16:20	8.01	4.92	3.09
MW-51S	6/9/2014	16:36	6.71	3.28	3.43
MW-51I	6/9/2014	16:38	6.75	3.86	2.89
MW-51D	6/9/2014	16:40	6.68	3.75	2.93
MW-52S	6/9/2014	16:49	7.26	3.00	4.26
MW-52I	6/9/2014	16:47	7.33	3.67	3.66
MW-52D	6/9/2014	16:45	7.41	3.75	3.66
MW-53S	6/9/2014	16:06	10.01	5.36	4.65
MW-54S	6/9/2014	14:35	11.16	5.72	5.44
MW-54I	6/9/2014	14:37	11.09	5.85	5.24
MW-54D	6/9/2014	14:39	11.11	6.12	4.99
MW-55S	6/9/2014	17:31	8.07	6.26	1.81
MW-55I	6/9/2014	17:29	7.92	4.34	3.58
MW-55D	6/9/2014	17:27	7.81	4.42	3.39

Notes:
TOC: Top of Casing
ft: Feet

Tides: Frederick River Bridge, GA StationId: 8677045 (+31.1683 -81.4133)

Date	Low	High
6/9/2014	0:19	5:59
	12:23	18:39

TABLE 6
GROUNDWATER ELEVATION DATA - LOWER UNIT MONITORING WELLS
FORMER HERCULES BRUNSWICK FACILITY
BRUNSWICK, GA

Well ID	Date	Time	TOC Elevation (ft)	Depth to Water (ft)	Water Elevation (ft)
MW-13	6/9/2014	17:15	10.64	7.02	3.62
MW-18	6/9/2014	11:34	20.32	17.52	2.80
MW-33	6/9/2014	16:08	9.17	5.06	4.11
MW-34	6/9/2014	14:23	13.95	9.45	4.50
MW-37D	6/9/2014	11:28	16.81	12.32	4.49
MW-40D	6/9/2014	11:56	14.11	9.74	4.37
MW-44D	6/9/2014	15:24	11.79	7.46	4.33

Notes:
TOC: Top of Casing
ft: Feet

Tides: Frederick River Bridge, GA StationId: 8677045 (+31.1683 -81.4133)

Date	Low	High
6/9/2014	0:19	5:59
	12:23	18:39

TABLE 7
TIDAL INFLUENCE
FORMER HERCULES BRUNSWICK FACILITY
BRUNSWICK, GA

Tidal Metric and Reference Point	MW-20I 2/10-11/10	MW-20D 2/10-11/10	MW-44I 7/21-28/10	MW-44ID 7/21-28/10	MW-20D 11/15-21/12	MW-39S 11/15-21/12	MW-39I 11/15-21/12	MW-39D 11/15-21/12
Tidal Efficiency, Frederick River Bridge	10.0%	10.5%	2.8%	2.8%	11.9%	22.4%	27.8%	26.1%
Lag Time, Frederick River Bridge	0:48	0:39	1:33	1:25	1:05	2:04	0:15	0:19
Fluctuation Magnitude (ft)	0.59	0.63	0.18	0.19	0.94	1.68	2.14	2.00
Distance from MW-54 (ft)*	2020	2020	850	850	220	2800	2800	2800

Notes:

-Tides were refernced from Frederick River Bridge, GA - Station Id: 8677045 (+31.1683 -81.4133)

-The tidal data used in these estimates was obtained from www.tidesandcurrents.noaa.gov.

* MW-54D is approximately the point of zero tidal influence at the site and is used as the reference point for tidal influence projections.

TABLE 8
GROUNDWATER PHASE III RFI SAMPLING PROGRAM
FORMER HERCULES BRUNSWICK FACILITY
BRUNSWICK, GA

Well ID	Parameters Analyzed
MW-1S	VOCs
MW-1D	VOCs
MW-2S	VOCs
MW-2D	VOCs
MW-3S	VOCs, toxaphene
MW-3D	VOCs, toxaphene
MW-4	VOCs
MW-5S	VOCs
MW-5I	VOCs, toxaphene
MW-6	VOCs
MW-7	VOCs
MW-8	VOCs
MW-9S	VOCs, toxaphene
MW-9D	VOCs, toxaphene
MW-10S	VOCs, toxaphene
MW-10D	VOCs, toxaphene
MW-11S	VOCs, toxaphene
MW-11D	VOCs, toxaphene
MW-11DD	VOCs, SVOCs, metals, toxaphene
MW-12S	VOCs, toxaphene
MW-12D	VOCs, toxaphene
MW-13	VOCs
MW-14S	VOCs
MW-14D	VOCs
MW-15S	VOCs
MW-15D	VOCs
MW-16S	VOCs
MW-16D	VOCs
MW-17S	VOCs
MW-17D	VOCs
MW-18	VOCs
MW-19S	VOCs
MW-19I	VOCs
MW-19D	VOCs
MW-20S	VOCs, toxaphene
MW-20I	VOCs, toxaphene
MW-20D	VOCs, toxaphene
MW-21	VOCs, toxaphene
MW-22	VOCs, toxaphene
MW-23	VOCs, toxaphene
MW-24	VOCs, toxaphene
MW-25S	VOCs, toxaphene
MW-25D	VOCs, toxaphene
MW-26S	VOCs, toxaphene
MW-26D	VOCs, toxaphene
MW-27D	VOCs, toxaphene
MW-28D	VOCs
MW-29I	VOCs, toxaphene
MW-29D	VOCs, toxaphene
MW-30S	VOCs
MW-30D	VOCs
MW-31D	VOCs
MW-32D	VOCs, toxaphene
MW-33	VOCs, toxaphene
MW-34	VOCs, toxaphene
MW-35D	VOCs, toxaphene
MW-36D	VOCs, toxaphene
MW-37S	VOCs, metals, toxaphene
MW-37I	VOCs, metals, toxaphene
MW-37D	VOCs
MW-38S	VOCs, metals, toxaphene
MW-38I	VOCs, metals, toxaphene
MW-38D	VOCs, metals, toxaphene
MW-39S	VOCs, metals
MW-39I	VOCs, metals
MW-39D	VOCs, metals
MW-40S	VOCs, metals, toxaphene
MW-40I	VOCs, metals, toxaphene
MW-40D	VOCs, metals, toxaphene
MW-41I	Metals

TABLE 8
GROUNDWATER PHASE III RFI SAMPLING PROGRAM
FORMER HERCULES BRUNSWICK FACILITY
BRUNSWICK, GA

Well ID	Parameters Analyzed
MW-42I	VOCs, metals, toxaphene
MW-42D	VOCs, metals, toxaphene
MW-43S	VOCs, metals, toxaphene
MW-43I	VOCs, metals, toxaphene
MW-43D	VOCs, metals, toxaphene
MW-44S	VOCs, metals, toxaphene
MW-44I	VOCs, metals, toxaphene
MW-44-ID	VOCs, metals, toxaphene
MW-44D	VOCs, metals, toxaphene
MW-45I	VOCs, toxaphene
MW-46I	VOCs, toxaphene
MW-48D	VOCs
MW-49S	VOCs
MW-49I	VOCs
MW-49D	VOCs
MW-50S	VOCs, metals
MW-50I	VOCs, metals
MW-50D	VOCs, metals
MW-51S	VOCs, metals
MW-51I	VOCs, metals
MW-51D	VOCs, metals
MW-52S	VOCs, metals, toxaphene
MW-52I	VOCs, metals, toxaphene
MW-52D	VOCs, metals, toxaphene
MW-53S	VOCs, toxaphene
MW-54S	VOCs, toxaphene
MW-54I	VOCs, toxaphene
MW-54D	VOCs, toxaphene
MW-55S	VOCs, SVOCs, metals, toxaphene
MW-55I	VOCs, SVOCs, metals, toxaphene
MW-55D	VOCs, SVOCs, metals, toxaphene
MW-56D	VOCs, SVOCs, metals, toxaphene
MW-57D	VOCs, SVOCs, metals, toxaphene
HP-111-50A	VOCs, metals, toxaphene
HP-111-50B	VOCs, metals, toxaphene
HP-111-50C	VOCs, metals, toxaphene
HP-111-51A	VOCs, metals, toxaphene
HP-111-52A	VOCs, metals, toxaphene
HP-111-52B	VOCs, metals, toxaphene
HP-111-53A	VOCs, metals, toxaphene
HP-111-53B	VOCs, metals, toxaphene
HP-111-54A	VOCs, metals
HP-111-54B	VOCs, metals
HP-111-54C	VOCs, metals
HP-111-55A	VOCs
HP-111-55B	VOCs
HP-111-55C	VOCs
HP-111-56A	VOCs
HP-111-57A	VOCs, metals, toxaphene
HP-111-57B	VOCs, metals, toxaphene
HP-111-57C	VOCs, metals, toxaphene
HP-111-57-TW	VOCs
HP-111-58A	VOCs
HP-111-58B	VOCs
HP-111-58C	VOCs
HP-111-59C	VOCs, toxaphene
HP-111-60A	VOCs, toxaphene
HP-111-60B	VOCs, toxaphene
HP-111-60C	VOCs, toxaphene

Notes:

- Monitoring wells MW-42S, MW-48S and MW-48I contain product; therefore, groundwater samples were not obtained from these wells.

TABLE 9
CONSTITUENTS IN NAPL SOURCE AREAS
FORMER HERCULES BRUNSWICK FACILITY
BRUNSWICK, GA

Sample Name/Sample Date	MW-42S (5/16/2012)	MW-42I (5/16/2012)	Test Pit 2 LNAPL (Dubignon St.)* (10/15/2009)	Dubignon St. Sluice Pit #2B (4/14/2010)	Dubignon St. Sump (1/15/2012)
Sample Type	**NAPL**	**Aqueous**	**NAPL**	**Aqueous**	**NAPL**
Chemical Name	**ug/kg**	**ug/l**	**ug/kg**	**ug/l**	**ug/kg**
Acetone	<21,000	**3,100**	<50,000,000	<5,000	<44,000,000
Benzene	5,500	**2,800**	9,300,000	**1,600**	<4,400,000
Chlorobenzene	2,400	<50	<5,000,000	<200	<4,400,000
Carbon Disulfide	<2,100	**520**	<5,000,000	<400	<4,400,000
Carbon Tetrachloride	<2,100	**8,400**	<5,000,000	<200	<4,400,000
Chloroform	36,000	**4,600**	<5,000,000	<200	<4,400,000
MIBK	<11,000	**760**	95,000,000	**36,000**	66,000,000
Toluene	<2,100	**120**	5,700,000	**500**	<4,400,000
Xylenes	<4,200	**190**	<10,000,000	<400	<8,800,000
Toxaphene, Technical	1,200	<48	--	--	--
p-Cymene	--	--	510,000,000	19,000	54,000,000

Notes:

NAPL - Non-Aqueous Phase Liquid

Highlighted values indicated detections in NAPL samples

Bolded values exceed groundwater protection standards established for the facility

* Tentatively identified compounds (TICs) also included:

1) alpha-pinene (60,000 mg/kg, or 6%)
2) beta-pinene (20,000 mg/kg, or 2%)
3) camphene (19,000 mg/kg, or 1.9 %)
4) camphor (22,000 mg/kg, or 2.2%)
5) 4-propylphenol (37,000 mg/kg, or 3.7%)

< - Not detected at or above indicated laboratory detection limit

-- Not analyzed

TABLE 10
GROUNDWATER FIELD PARAMETERS
FORMER HERCULES BRUNSWICK FACILITY
BRUNSWICK, GA

Well ID	Sampling Date	pH (standard units)	Temperature (Deg C)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)
POC-1S	6/10/2014	5.88	28.41	1.99	0.89	6.9	-48
POC-1D	6/10/2014	7.07	28.62	8.24	0.96	5.1	-90
POC-2S	6/12/2014	5.44	28.24	2.03	0.03	6.9	-2
POC-2D	6/10/2014	6.91	29.59	10.1	1.3	15.2	5
POC-3S	6/12/2014	6.54	24.94	0.446	1.16	14.2	-103
POC-3S	7/16/2014	6.38	27.41	1.38	2.5	0.5	-113
POC-3D	6/12/2014	6.67	25.16	9.36	0.09	12.7	-61
POC-3D	7/16/2014	6.98	25.46	9.77	0.81	6.4	-47
MW-1S	5/28/2014	6.58	24.79	3.28	0.7	5.4	-87
MW-1D	5/28/2014	6.51	25.92	7.28	0.58	2.6	-67
MW-2S	5/28/2014	6.48	26.32	4.94	1.1	2.7	-71
MW-2D	6/17/2014	6.99	24.81	21.2	0.02	51.1	-76
MW-3S	5/28/2014	6.42	23.83	0.35	1.65	16.7	-67
MW-3D	5/28/2014	6.57	23.92	6.34	1.17	0.9	-101
MW-5I	5/28/2014	7.17	27.29	5.34	0.85	6.6	-120
MW-7	5/27/2014	6.87	24.26	3.23	0.91	20.2	-151
MW-9D	6/10/2014	7.43	27.08	2.57	1.3	1.3	-113
MW-10D	6/12/2014	6.14	25.25	16.2	1.42	5.2	-74
MW-11D	6/11/2014	7.50	22.39	2.07	7.2	9	-115
MW-11DD	7/16/2014	6.57	25.84	15.3	0.69	3.1	-171
MW-12D	6/11/2014	6.89	25.85	16.9	6.42	38.7	-13
MW-19D	6/17/2014	12.44	25.24	1.56	2.88	3.4	-62
MW-20D	6/10/2014	6.11	24.34	7.56	0.82	13	-49
MW-26D	6/11/2014	7.36	24.80	7.94	0.31	20.2	-114
MW-28D	6/12/2014	6.16	24.70	5.01	0.39	7.4	-69
MW-29D	6/11/2014	6.91	22.39	6.36	2.42	17.3	-97
MW-32D	5/27/2014	7.02	24.15	10.4	1.57	0.4	-124
MW-34	5/28/2014	8.01	76.08	0.491	1.65	0.2	-151
MW-38D	6/11/2014	6.54	22.37	6.18	0.4	35.2	-64
MW-41I	5/28/2014	6.66	25.34	31.8	0.59	37.2	-113
MW-44I	5/28/2014	6.64	26.14	2.16	0.57	45	-94
MW-52D	6/11/2014	7.43	23.84	8.71	6.19	12.2	-112
MW-55S	6/17/2014	7.42	24.47	33.5	3.4	56.6	-336
MW-55I	6/17/2014	7.31	27.81	0.601	0	234	-130
MW-55D	6/10/2014	6.27	23.49	8	0.82	1.75	-48
MW-56D	7/16/2014	7.08	24.07	14.6	0.83	1.4	-152
MW-57D	7/16/2014	7.82	24.30	8.36	1.09	5.9	-209

Notes:
The field measurements reported above are from the final volume of sample removed from the well.
Deg C - degrees Celsius
mg/L - milligrams per liter
mS/cm - millisiemens (uS) per centimeter
NTU - nephelometric turbidity units
mV - millivolts

TABLE 11
GROUNDWATER ANALYTICAL RESULTS - VOLATILE ORGANIC COMPOUNDS
FORMER HERCULES BRUNSWICK FACILITY
BRUNSWICK, GA

Chemical Name:		Acetone (µg/L)	Benzene (µg/L)	2-Butanone (MEK) (µg/L)	Carbon disulfide (µg/L)	Carbon tetrachloride (µg/L)	Chloro-benzene (µg/L)	Chloroform (µg/L)	cis-1,2-Dichloro-ethene (µg/L)	1,1-Dichloro-ethane (µg/L)	1,1-Dichloro-ethylene (µg/L)	1,2,3-Trichloro-propane (µg/L)	1,2,4-Trichloro-benzene (µg/L)	1,2-Dichloro-benzene (µg/L)	1,2-Dichloro-propane (µg/L)	1,4-Dichloro-benzene (µg/L)	Ethylbenzene (µg/L)	Methyl Isobutyl Ketone (MIBK) (µg/L)	Methylene chloride (µg/L)	p-Cymene (p-Isopropyl-toluene) (µg/L)	Tetra-chloroethene (µg/L)	Toluene (µg/L)	Vinyl chloride (µg/L)	Xylene (Total) (µg/L)
Well I.D.	**Date**																							
POC-1S	6/10/2014	**64**	**48**	<2.0	<1.2	<1.0	**120**	<0.28	**4.0**	<0.50	**0.33 J**	<0.82	**1.1 J**	**13**	**0.83 J**	**13**	**16**	<2.0	<2.0	**4.4**	<0.30	**28**	**14**	**51**
POC-1S (DUP-1)	6/10/2014	**49 J**	**53**	<2.0	<1.2	<1.0	**140**	<0.28	**3.3**	<0.50	**0.31 J**	**0.83 J**	**0.91 J**	**14**	**0.86 J**	**14**	**18**	<2.0	<2.0	**4.9**	<0.30	**30**	**15**	**56**
POC-1D	6/10/2014	<5.0	<0.25	<1.0	<0.60	<0.50	**1.3**	<0.14	<0.15	<0.25	<0.11	<0.41	<0.25	<0.21	<0.13	<0.28	**0.34 J**	<1.0	<1.0	**0.15 J**	<0.15	<0.33	<0.18	**1.7 J**
POC-2S	6/12/2014	<1,300	<63	<250	<150	<130	**300**	**620**	<38	<63	<28	<100	<63	<53	<33	<70	**6,300**	<250	<250	**58 J**	<38	**180 J**	<45	**26,000**
POC-2D	6/10/2014	**8.1 J**	**2.9**	<1.0	<0.60	<0.50	**1.9**	<0.14	<0.15	**0.40 J**	**0.11 J**	<0.41	<0.25	<0.21	<0.13	<0.28	**0.14 J**	<1.0	<1.0	<0.13	<0.15	<0.33	<0.18	**0.22 J**
POC-3S	6/12/2014	<5	**0.71 J**	<1	<0.6	<0.5	**6.5**	**0.44 J**	**0.23 J**	<0.25	**0.24 J**	<0.41	<0.55	<0.52	<0.13	<0.53	**22**	<1	<1	<0.13	<0.15	**1.1**	**0.2 J**	**160**
POC-3D	6/12/2014	**5.8 J**	**44**	<1	<0.6	<0.5	**34**	<0.14	<0.15	<0.25	<0.11	<0.41	<0.56	<0.53	**0.46 J**	<0.54	**0.24 J**	<1	<1	<0.13	<0.15	**0.87 J**	**2**	**1.7 J**
MW-1S	5/28/2014	**13 J**	**22**	<1.0	<0.60	<0.50	**89**	<0.14	<0.15	<0.25	<0.11	<0.41	<0.25	**2.5**	**0.45 J**	**3.0**	**0.66 J**	<1.0	<1.0	**1.5**	<0.15	**3.0**	<0.18	**6.3**
MW-1D	5/28/2014	<10	**200**	<2.0	<1.2	**1.0 J**	**390**	**0.43 J**	**0.32 J**	**0.62 J**	**0.29 J**	<0.82	<0.50	**10**	**2.7**	**12**	**28**	<2.0	<2.0	**14**	<0.30	**7.6**	**8.3**	**34**
MW-2S	5/28/2014	**6.1 J**	**65**	<1.0	<0.60	<0.50	**170**	<0.14	<0.15	**0.26 J**	<0.11	<0.41	<0.25	**3.1**	**0.48 J**	**6.9**	**0.76 J**	<1.0	<1.0	**1.8**	<0.15	**0.85 J**	<0.18	**1.7 J**
MW-3S	5/28/2014	<5.0	<0.25	<1.0	<0.60	<0.50	**0.32 J**	<0.14	<0.15	<0.25	<0.11	<0.41	<0.25	<0.21	<0.13	<0.28	<0.11	<1.0	<1.0	<0.13	<0.15	<0.33	<0.18	<0.20
MW-3D	5/28/2014	<5.0	**61**	<1.0	<0.60	<0.50	**180**	<0.14	**0.49 J**	<0.25	**0.66 J**	<0.41	<0.25	**6.9**	**0.84 J**	**7.2**	**6.0**	<1.0	<1.0	**12**	<0.15	**12**	**4.9**	**17**
MW-5I	5/28/2014	<5.0	<0.25	<1.0	<0.60	<0.50	**0.34 J**	<0.14	<0.15	<0.25	<0.11	<0.41	<0.25	<0.21	<0.13	<0.28	<0.11	<1.0	<1.0	<0.13	<0.15	<0.33	<0.18	<0.20
MW-7	5/27/2014	<5.0	**8.2**	<1.0	<0.60	<0.50	**43**	<0.14	<0.15	<0.25	<0.11	<0.41	<0.25	**1.4**	**0.23 J**	**0.65 J**	<0.11	<1.0	<1.0	**0.32 J**	<0.15	**0.81 J**	**1.0**	**20**
MW-9D	6/10/2014	<25	**310**	<5.0	<3.0	<2.5	**170**	<0.70	<0.75	<1.3	<0.55	<2.1	<1.3	**1.6 J**	<0.65	**3.0 J**	**0.96 J**	<5.0	<5.0	<0.65	<0.75	**1.7 J**	<0.90	<1.0
MW-10D	6/12/2014	<2,500	**860**	<500	<300	<250	**2,200**	**53,000**	<75	<130	<55	<210	<130	<110	<65	<140	<55	<500	**6,900**	**570**	<75	<170	<90	**150 J**
MW-10D (DUP-2)	6/12/2014	<2,500	**900**	<500	<300	<250	**2,300**	**57,000**	<75	<130	<55	<210	<130	<110	<65	<140	<55	<500	**7,100**	**620**	<75	<170	<90	**150 J**
MW-11D	6/11/2014	**9.0 J**	<0.25	<1.0	<0.60	<0.50	**2.4**	<0.14	<0.15	<0.25	<0.11	<0.41	<0.25	<0.21	<0.13	<0.28	<0.11	<1.0	<1.0	<0.13	<0.15	<0.33	**0.30 J**	<0.20
MW-11DD	7/16/2014	<25	**120**	<5	<3	<2.5	**180**	**540**	**1.1 J**	<1.3	<0.55	<2.1	<1.3	**2.6 J**	<0.65	**3.9 J**	**8.1**	<5	**200**	**7.9**	<0.75	**2.2 J**	<0.9	**32**
MW-12D	6/11/2014	<5.0	**18**	<1.0	<0.60	<0.50	**6.2**	<0.14	<0.15	<0.25	<0.11	<0.41	<0.25	<0.21	**0.59 J**	<0.28	**0.29 J**	<1.0	<1.0	<0.13	<0.15	**0.87 J**	**1.1**	**1.1 J**
MW-20D	6/10/2014	<500	**1,800**	<100	<60	<50	**2,600**	<14	**24 J**	<25	<11	<41	<25	**27 J**	<13	**48 J**	**30 J**	<100	**7,500**	**150**	<15	**110**	**31 J**	**59 J**
MW-26D	6/11/2014	<5.0	**4.7**	<1.0	<0.60	<0.50	**1.9**	<0.14	**0.24 J**	<0.25	<0.11	<0.41	<0.25	<0.21	**0.25 J**	<0.28	**0.12 J**	<1.0	<1.0	<0.13	<0.15	<0.33	<0.18	**3.3**
MW-28D	6/12/2014	<50	**540**	<10	<6	<5	**750**	<1.4	<1.5	<2.5	<1.1	<4.1	<2.5	**4.6 J**	<1.3	**8 J**	**3.6 J**	<10	<10	<1.3	<1.5	**4.8 J**	**4.5 J**	**16 J**
MW-29D	6/11/2014	<100	**1,400**	<20	<12	<10	**690**	<2.8	<3.0	<5.0	<2.2	<8.2	<5.0	**7.8 J**	<2.6	**11 J**	**9.1 J**	<20	<20	<2.6	<3.0	<6.6	<3.6	**82**
MW-32D	5/27/2014	<5.0	**4.7**	<1.0	<0.60	<0.50	**0.62 J**	<0.14	**0.22 J**	<0.25	<0.11	<0.41	<0.25	<0.21	**0.14 J**	<0.28	<0.11	<1.0	<1.0	**0.14 J**	<0.15	<0.33	<0.18	<0.20
MW-38D	6/11/2014	<50	**850**	<10	<6.0	<5.0	**530**	<1.4	**2.1 J**	<2.5	**1.3 J**	<4.1	<2.5	**6.1 J**	<1.3	**10**	**41**	<10	<10	**3.5 J**	<1.5	**3.9 J**	**5.9 J**	**84**
MW-41I	5/28/2014	**6.2 J**	**39**	<1.0	<0.60	<0.50	**6.7**	<0.14	**1.2**	<0.25	<0.11	<0.41	<0.25	<0.21	**1.4**	<0.28	**0.46 J**	**1.4 J**	<1.0	**10**	<0.15	**2.0**	<0.18	**3.1**
MW-52D	6/11/2014	<5.0	**5.6**	<1.0	<0.60	<0.50	**1.5**	<0.14	**0.37 J**	<0.25	<0.11	<0.41	<0.25	<0.21	**0.34 J**	<0.28	**0.37 J**	<1.0	<1.0	<0.13	<0.15	<0.33	<0.18	**0.78 J**
MW-55D	6/10/2014	<100	**1,300**	<20	<12	<10	**650**	<2.8	**8.6 J**	<5.0	**4.0 J**	<8.2	<5.0	**11 J**	<2.6	**16 J**	**95**	<20	<20	**20**	<3.0	**8.8 J**	**6.4 J**	**150**
MW-56D	7/16/2014	<5	**41**	<1	<0.6	<0.5	**86**	<0.14	**0.93 J**	<0.25	<0.11	<0.41	<0.25	**0.75 J**	**1.2**	**0.99 J**	**2.9**	<1	<1	**0.42 J**	<0.15	**0.61 J**	**0.79 J**	**3.5**
MW-57D	7/16/2014	<5	**3.1**	<1	<0.6	<0.5	**0.58 J**	<0.14	**0.37 J**	<0.25	<0.11	<0.41	<0.25	<0.21	<0.13	<0.28	<0.11	<1	<1	<0.13	<0.15	<0.33	<0.18	<0.2

Analytical Notes:
Results in bold exceed laboratory detection limits
ug/L - micrograms/liter
< - Not detected at or above indicated laboratory detection limit
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Groundwater Protection Standards are background for all volatile organic compounds.

TABLE 12
GROUNDWATER ANALYTICAL RESULTS - SEMI-VOLATILE ORGANIC COMPOUNDS, PESTICIDES AND FORMALDEHYDE
FORMER HERCULES BRUNSWICK FACILITY
BRUNSWICK, GA

Chemical Name:		Acetophenone (µg/L)	Benzo(g,h,i) perylene (µg/L)	bis(2-Ethylhexyl) phthalate (µg/L)	Dibenzo(a,h) anthracene (µg/L)	Indeno (1,2,3-cd) pyrene (µg/L)	3 & 4 Methylphenol (m-p-Cresol) (µg/L)	Naphthalene (µg/L)	Phenol (µg/L)	Aldrin (µg/L)	alpha-BHC (µg/L)	delta-BHC (µg/L)	gamma-BHC (Lindane) (µg/L)	Heptachlor (µg/L)	Technical Toxaphene (µg/L)	Total Toxaphene (Chlorinated Camphenes) (µg/L)	Formaldehyde (µg/L)
Well I.D.	**Date**																
POC-1S	6/10/2014	<1.9	<2.2*	NS	<1.8*	<1.9*	<1.4	<1.3	<1.6	NS	<0.021	<0.021	<0.018	<0.022	<0.49	**26**	**21 J**
POC-1S (DUP-1)	6/10/2014	<1.9	<2.1*	NS	<1.8*	<1.9*	<1.4	<1.3	<1.6	NS	<0.024	<0.024	<0.021	<0.025	<0.56	**20**	**23 J**
POC-1D	6/10/2014	<1.9	<2.1*	NS	<1.8*	<1.9*	<1.4	<1.2	<1.6	NS	<0.023	<0.023	<0.020	<0.024	<0.54	**0.67 Jp**	<5.0
POC-2S	6/12/2014	<2	<2.2	NS	<1.9	<2	<1.4	<1.3	<1.7	NS	**14 E**	**3.8 Ep**	**7.2 E**	<0.025	**420 Ep**	**810 E**	**7.5 J**
POC-2D	6/10/2014	<1.9	<2.1*	NS	<1.8*	<1.9*	<1.3	<1.2	<1.6	NS	<0.024	<0.024	<0.020	<0.025	<0.55	**0.89 J**	<5.0
POC-3S	6/12/2014	**0.89 J**	<0.86	<1.6	<0.99	<0.99	<1.3	<0.69	<0.82	**0.15 p**	**0.099**	<0.023	<0.02	<0.024	**9.7**	**14**	<5
POC-3S	7/16/2014	**6.4 J***	<1.9*	<2.3	<1.6*	<1.7*	<1.3*	**1.8 J***	<1.5*	<0.019	**4.0 E**	<0.021	**1.3 p**	<0.022	<0.49	**210 Ep**	NS
POC-3S (DUP)	7/16/2014	**11 ***	<2.1*	<2.5	<1.8*	<1.9*	<1.4*	<1.3*	<1.6*	<0.021	**3.7 E**	<0.023	**1.2 p**	<0.024	<0.53	**270 Ep**	NS
POC-3D	6/12/2014	<0.57	<0.87	**1.8 JB**	<1	<1	<1.3	<0.7	<0.83	<0.019	<0.021	<0.021	<0.018	<0.022	<0.49	**1.4 J**	<5
POC-3D	7/16/2014	<1.8*	<2.0*	**3.2 JB**	<1.7*	<1.8*	<1.3*	<1.2*	<1.5*	<0.019	<0.021	<0.021	<0.018	<0.022	<0.50	**2.4 J**	NS
MW-9D	6/10/2014	**2.0 J**	<2.1*	NS	<1.8*	<1.9*	<1.4	<1.3	<1.6	NS	**0.15 p**	**0.54 p**	<0.019	<0.023	<0.52	**7.8**	**6.6 J**
MW-10D	6/12/2014	<2	<2.2	NS	<1.9	<2	<1.4	<1.3	<1.6	NS	<0.024	<0.024	<0.021	<0.025	<0.56	**94**	<5
MW-10D (DUP-2)	6/12/2014	**3.2 J**	<2.1	NS	<1.8	<1.9	<1.3	<1.2	<1.5	NS	<0.024	<0.024	<0.021	<0.025	<0.56	**47 p**	<5
MW-11D	6/11/2014	<1.9	<2.2	NS	<1.8	<1.9	<1.4	<1.3	<1.6	NS	<0.024	<0.024	<0.021	<0.025	<0.56	**2.0 J**	<5.0
MW-11DD	7/16/2014	<1.8*	<2*	NS	<1.7*	<1.8*	<1.3*	<1.2*	<1.5*	NS	<0.021	<0.021	<0.018	<0.022	<0.48	**3.4 Jp**	**17 J**
MW-12D	6/11/2014	<1.8	<2.0	NS	<1.7	<1.8	<1.3	<1.2	<1.5	NS	<0.026	<0.026	<0.023	<0.028	<0.61	**1.9 J**	<5.0
MW-20D	6/10/2014	<1.9	<2.1*	NS	<1.8*	<1.9*	<1.3	<1.2	<1.6	NS	**0.37 p**	<0.023	<0.020	<0.024	<0.54	**38**	**7.2 J**
MW-26D	6/11/2014	<1.9	<2.1	NS	<1.8	<1.9	<1.4	<1.3	<1.6	NS	<0.022	<0.022	<0.019	<0.023	<0.51	<0.51	<5.0
MW-28D	6/12/2014	<2	<2.2	NS	<1.9	<2	<1.4	**1.7 J**	<1.7	NS	<0.024	<0.024	<0.021	<0.025	<0.55	**16**	<5
MW-29D	6/11/2014	**2.6 J**	<2.0	NS	<1.7	<1.8	<1.3	<1.2	**23**	NS	**0.28 p**	<0.023	<0.020	<0.024	<0.52	**9.6 p**	<5.0
MW-38D	6/11/2014	**2.3 J**	<2.0	NS	<1.7	<1.8	<1.3	<1.2	**19**	NS	**0.16 p**	<0.023	<0.020	<0.024	<0.53	**6.4 p**	**7.7 J**
MW-52D	6/11/2014	<1.9	<2.1	NS	<1.8	<1.9	<1.4	<1.3	<1.6	NS	<0.023	<0.023	<0.019	<0.024	<0.52	**0.73 J**	<5.0
MW-55D	6/10/2014	**3.6 J**	<2.1*	NS	<1.8*	<1.9*	<1.4	<1.3	**9.3 J**	NS	**0.21 p**	<0.022	<0.019	<0.023	<0.51	**9.1 p**	**7.1 J**
MW-56D	7/16/2014	<1.8*	<2*	NS	<1.7*	<1.8*	<1.3*	<1.2*	<1.5*	NS	<0.021	<0.021	<0.018	<0.022	<0.5	**2.1 J**	**24 J**
MW-57D	7/16/2014	<1.9*	**4.9 J***	NS	**2.8 J***	<1.9*	<1.4*	<1.3*	<1.6*	NS	<0.021	<0.021	<0.018	<0.022	<0.49	<0.49	**23 J**

Analytical Notes:
Results in bold exceed laboratory detection limits
< - Not detected at or above indicated laboratory detection limit
UG/L - micrograms/liter
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
E - Result exceeded instrument calibration range.
p - The % RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
B - Compound was found in the blank and sample.
* - Relative percent difference of the lab control sample and lab control sample duplicate exceeds the control limits.
Groundwater Protection Standards are background for all compounds except for gamma-BHC (4 ug/l) and toxaphene (5 ug/l).

TABLE 13
GROUNDWATER ANALYTICAL RESULTS - METALS
FORMER HERCULES BRUNSWICK FACILITY
BRUNSWICK, GA

Chemical Name:		Arsenic (µg/L)	Barium (µg/L)	Chromium (µg/L)	Cobalt (µg/L)	Nickel (µg/L)	Selenium (µg/L)	Vanadium (µg/L)	Zinc (µg/L)
Groundwater Protection Standard:		50	1000	50	Background	Background	10	Background	Background
Well I.D.	**Date**								
POC-1S	6/10/2014	**3.2**	**12**	**8.6**	**0.53**	**3.5 J**	**4.1**	**34**	<8.3
POC-1S (DUP-1)	6/10/2014	**3.3**	**13**	**8.8**	**0.57**	**3.1 J**	**4.2**	**35**	<8.3
POC-1D	6/10/2014	**2.7**	**620**	<2.5	**1.8**	**5.1**	<1.0	<3.8	<8.3
POC-2S	6/12/2014	**3.7**	**22**	**4.1 J**	**0.5**	**2.2 J**	**5.4**	**20**	<8.3
POC-2D	6/10/2014	**3.1**	**790**	**21**	**8.7**	**250**	<1.0	<3.8	<8.3
POC-3S	6/12/2014	**3.7**	**36**	<2.5	**0.24 J**	**2.7 J**	<1.1	**4.1 J**	**530**
POC-3D	6/12/2014	**2.5**	**630**	**6.4**	**2.2**	**4.9 J**	<1.1	<3.2	<8.4
MW-9D	6/10/2014	<1.3	**170**	<2.5	**0.48 J**	**2.4 J**	<1.0	<3.8	<8.3
MW-10D	6/12/2014	**5.6**	**2,000**	**51**	**4.9**	**33**	<1	<3.8	**9.8 J**
MW-10D (DUP-2)	6/12/2014	**5.4**	**1,900**	**26**	**4.5**	**17**	<1	<3.8	<8.3
MW-11D	6/11/2014	<1.3	**100**	<2.5	**0.45 J**	<2.0	<1.0	<3.8	<8.3
MW-11DD	7/16/2014	**3.1**	**2,000**	<2.5	**4.6**	<2	<1	<3.8	**11 J**
MW-12D	6/11/2014	**7.9**	**1,500**	<2.5	**5.4**	**3.7 J**	<1.0	<3.8	<8.3
MW-20D	6/10/2014	**2.6**	**420**	<2.5	**1.8**	<2.0	<1.0	<3.8	<8.3
MW-26D	6/11/2014	**2.9**	**410**	<2.5	**1.9**	<2.0	<1.0	<3.8	<8.3
MW-28D	6/12/2014	**1.3 J**	**280**	**21**	**1.2**	**15**	<1	<3.8	<8.3
MW-29D	6/11/2014	**2.6**	**580**	<2.5	**1.5**	<2.0	<1.0	<3.8	<8.3
MW-38D	6/11/2014	**2.2 J**	**560**	<2.5	**1.4**	<2.0	<1.0	<3.8	<8.3
MW-52D	6/11/2014	**3.6**	**480**	<2.5	**2.2**	<2.0	<1.0	<3.8	<8.3
MW-55D	6/10/2014	**3.3**	**720**	**3.9 J**	**1.9**	**2.3 J**	<1.0	<3.8	<8.3
MW-56D	7/16/2014	**2.8**	**1,100**	<2.5	**4.2**	**3 J**	<1	<3.8	<8.3
MW-57D	7/16/2014	**1.7 J**	**310**	<2.5	**2**	<2	<1	<3.8	<8.3

Analytical Notes:
Results in bold exceed laboratory detection limits
< - Not detected at or above indicated laboratory detection limit
ug/L - micrograms/liter
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

TABLE 14
GROUNDWATER SCREENING RESULTS - VOLATILE ORGANIC COMPOUNDS
FORMER HERCULES BRUNSWICK FACILITY
BRUNSWICK, GA

Chemical Name:			1,1-Dichloroethene	1,2,3-Trichloropropane	1,2-Dichloropropane	2-Butanone (MEK)	Methyl Isobutyl Ketone (MIBK)	Acetone	Benzene	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroform	*1,2-Dichloroethene	Ethylbenzene	Methylene Chloride	Tetrachloroethene	Toluene	Vinyl chloride	Xylenes, Total
Report Result Unit:			UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Well ID	Sampling Date	Sample Depth (ft bgs)																		
HP-111-50A	03/30/2010	21-25	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	<0.2	<0.11	<1	<0.15	<0.33	<0.18	<.2
HP-111-50B	03/30/2010	41-45	<1.1	<4.1	<1.3	<10	<10	<50	1700	7.5	<5	<2.5	<1.4	<2	1.8J	<10	<1.5	<3.3	<0.18	2.9J
HP-111-50C	03/30/2010	68-72	<0.11	<0.41	<0.13	4J	2J	34	17	<0.6	<0.5	<0.25	<0.14	<0.2	0.39J	<1	<0.15	0.56J	<0.18	2.1
HP-111-51A	03/29/2010	21-25	<0.11	<0.41	<0.13	<1	<1	7.6J	16	2.1	<0.5	<0.25	<0.14	<0.2	0.25J	<1	<0.15	<0.33	<0.18	1.1J
HP-111-52A	03/29/2010	21-25	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	3.2	<0.5	0.28J	<0.14	<0.2	0.85	<1	<0.15	<0.33	<0.18	1.4J
HP-111-52B	03/29/2010	39-43	<0.11	<0.41	<0.13	<1	<1	7.9J	<0.25	<0.6	<0.5	<0.25	<0.14	<0.2	0.2J	<1	<0.15	<0.33	<0.18	1.1J
HP-111-53A	03/29/2010	21-25	<0.11	<0.41	<0.13	<1	<1	7.6J	<0.25	1.1J	<0.5	<0.25	<0.14	<0.2	0.23J	<1	<0.15	<0.33	<0.18	1.2J
HP-111-53B	03/29/2010	39-43	<0.11	<0.41	<0.13	<1	<1	9.2J	<0.25	<.6	<0.5	<0.25	<0.14	<0.2	0.15J	<1	<0.15	<0.33	<0.18	0.81J
HP-111-54A	03/30/2010	21-25	<0.11	<0.41	<0.13	<1	<1	8.1J	29	2.7	<0.5	2.3	<0.14	<0.2	0.53J	<1	<0.15	<0.33	<0.18	0.91J
HP-111-54B	03/30/2010	51-45	2.9J	<4.1	<1.3	14J	67J	270JD	8400D	<6	<5	690	420	<2	270	71JD	2.5J	470	8.8J	54JD
HP-111-54C	04/01/2010	98-102	<11	<41	<13	<100	470J	6900	4800	92J	<50	4500	20000	<20	110	19000	<15	790	<18	<20
HP-111-55A	04/01/2010	21-25	<0.11	<0.41	<0.13	<1	<1	<5	0.31J	<0.6	<0.5	<0.25	<0.14	<0.2	<0.11	<1	<0.15	<0.33	<0.18	0.38J
HP-111-55B	03/30/2010	41-45	<0.11	<0.41	<0.13	1.1J	<1	8.8J	<0.25	<0.6	<0.5	<0.25	<0.14	<0.2	0.16J	<1	<0.15	<0.33	<0.18	0.56J
HP-111-55C	03/30/2010	91-95	<0.11	<0.41	<0.13	2.4J	<1	20J	99	<0.6	<0.5	83	<0.14	<0.2	46	<1	<0.15	7	<0.18	67
HP-111-56A	03/30/2010	21-25	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	1.8J	<0.5	<0.25	<0.14	<0.2	<0.11	<1	<0.15	<0.33	<0.18	<0.2
HP-111-57A	04/01/2010	21-25	<5.5	<20	<6.5	180J	1400	1500JD	570D	35J	<25	20J	<7	<10	560D	<50	<7.5	17000D	<9	200JD
HP-111-57B	03/30/2010	41-45	27J	<41	<13	270J	4300	10000	7000	<60	<50	1300	82000D	<20	150JD	9600	<15	780JD	<18	52J
HP-111-57C	04/01/2010	78-82	<11	<41	<13	180J	840JD	6100	4000D	<60	<50	4800D	51000D	<20	<11	31000D	<15	260JD	<18	<20
HP-111-57-TW	04/01/2010	0-12	<55	<200	<65	<500	<500	<2500	3600	<300	<250	<120	<70	<100	640	<500	230J	530	<90	130J
HP-111-58A	04/01/2010	21-25	<.22	<0.82	<0.26	<2	<2	17J	1J	6.1	<1	0.57J	0.63J	<0.22	0.29J	<2	<0.3	0.73J	<0.36	<0.4
HP-111-58B	04/01/2010	41-45	<.55	<2	<0.65	<5	<5	33J	<1.2	3.8J	<2.5	<1.2	3.3J	<1	<0.55	<5	<0.75	<1.6	<0.9	8.6J
HP-111-58C	04/01/2010	71-75	<0.11	<0.41	<0.13	<1	<1	7J	25	4	<0.5	1.7	<0.14	<0.2	1.1	<1	<0.15	0.55J	<0.18	2.5
HP-111-59C	01/29/2013	89-99	<0.22	<0.82	<0.26	<2	3.4J	<10	230	<1.2	<1	8.9	1.4J	0.3J	6.4	<2	<0.3	70	<0.36	29
HP-111-60A	01/30/2013	20-26	<0.11	<0.41	<0.13	<1	<1	<5	<1	<0.6	<0.5	0.51J	<0.14	<0.15	0.36J	<1	<0.15	19	<0.18	0.89J
HP-111-60B	01/30/2013	50-56	<0.11	<0.41	<0.13	<1	<1	<5	2.9	<0.6	<0.5	0.36J	<0.14	<0.15	<0.11	<1	<0.15	2	<0.18	0.26J
HP-111-60C	01/30/2013	75-86	<0.55	<2.1	<0.65	<5	<5	<25	710	<3	<2.5	280	<0.7	2.1J	15	<5	<0.75	22	<0.9	8.3J

Analytical Notes:

< - Not detected at or above indicated laboratory reporting limit

UG/L - micrograms per liter

-- - No information available

J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value

D - Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D

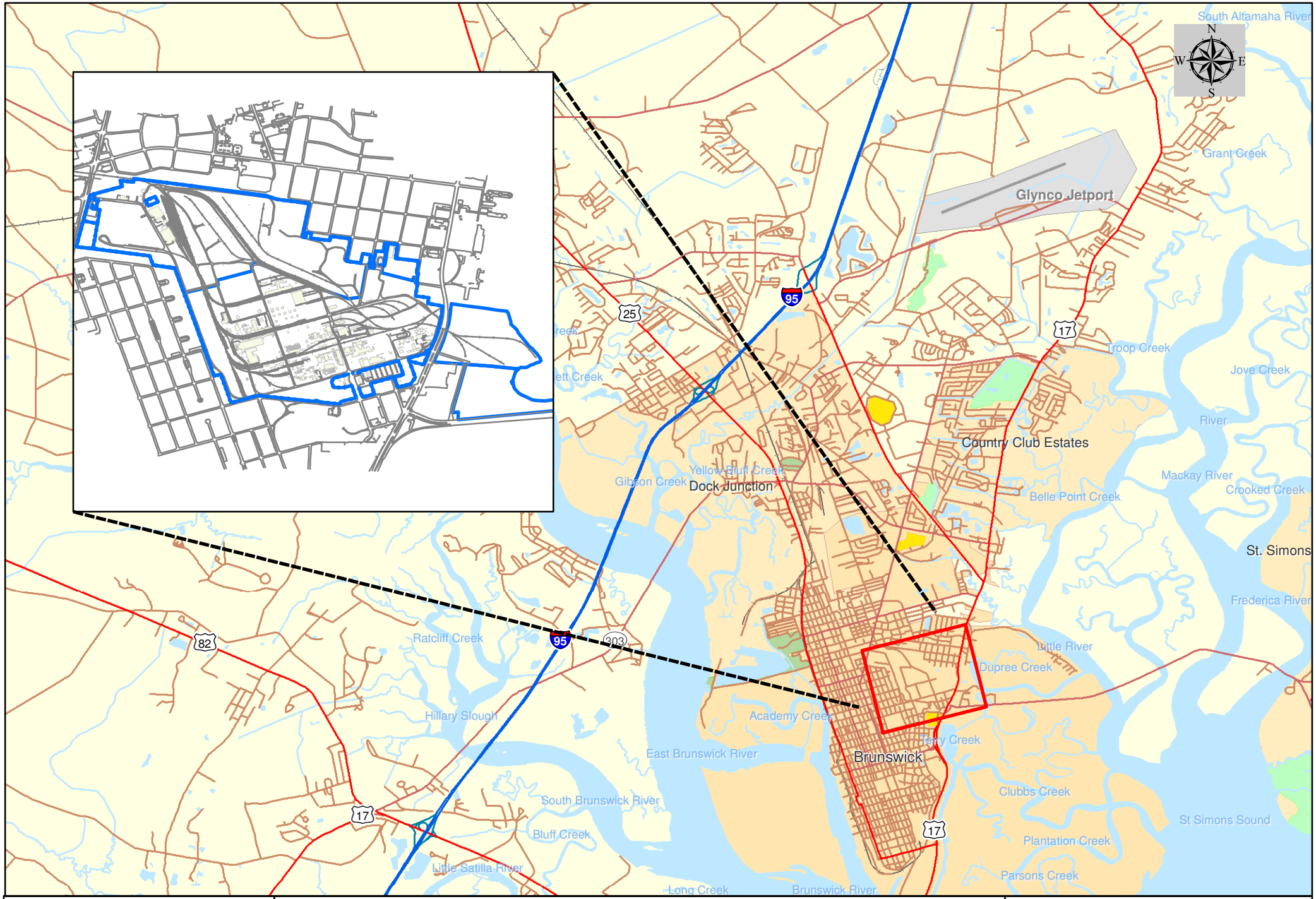
ft bgs - feet below ground surface

- Diluted (D) value used unless out of hold time, then non-dilute (E) value reported.

- Analyses out of hold times were not included in the table.

* The results reported for 1,2-dichloroethene in 2010 are for the trans-1,2-dichloroethene isomer. The results reported for 1,2-Dichloroethene in 2013 are for the cis-1,2-dichloroethene isomer.

Figures



Map Location

Former Hercules Brunswick Facility

Site Location Map

Source: Themeatic Layer provided by ESRI
Shapfiles of Site Provided by Newfields

0 2,3504,700 9,400 14,100 18,800 Feet

Created By:Amy Uebele

anteagroup

Figure:1

Date: June 2014

Project Number: WBS2014B1

Map Location

Former Hercules Brunswick Facility

Topographic Map

Source: Topographic Map provided by USDA

0 250 500 1,000 1,500 2,000 Feet

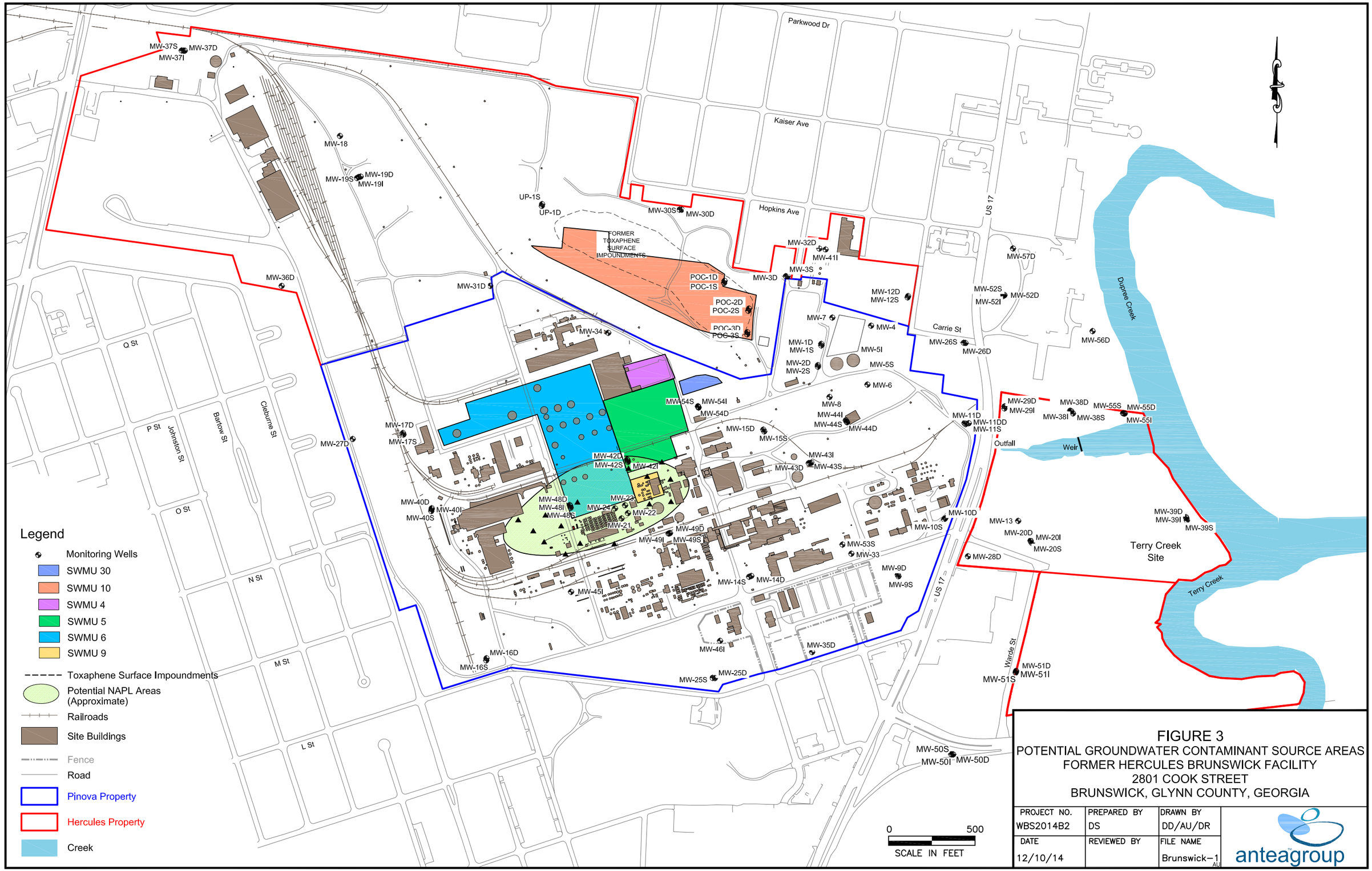
Created By:Amy Uebele

anteagroup

Figure:2

Date: June 2014

Project Number: WBS2014B1



Legend

- Monitoring Wells
- SWMU 30
- SWMU 10
- SWMU 4
- SWMU 5
- SWMU 6
- SWMU 9
- Toxaphene Surface Impoundments
- Potential NAPL Areas (Approximate)
- Railroads
- Site Buildings
- Fence
- Road
- Pinova Property
- Hercules Property
- Creek

0 500

SCALE IN FEET

FIGURE 3

POTENTIAL GROUNDWATER CONTAMINANT SOURCE AREAS
FORMER HERCULES BRUNSWICK FACILITY
2801 COOK STREET
BRUNSWICK, GLYNN COUNTY, GEORGIA

PROJECT NO.	PREPARED BY	DRAWN BY
WBS2014B2	DS	DD/AU/DR
DATE	REVIEWED BY	FILE NAME
12/10/14		Brunswick-1 AU

anteagroup

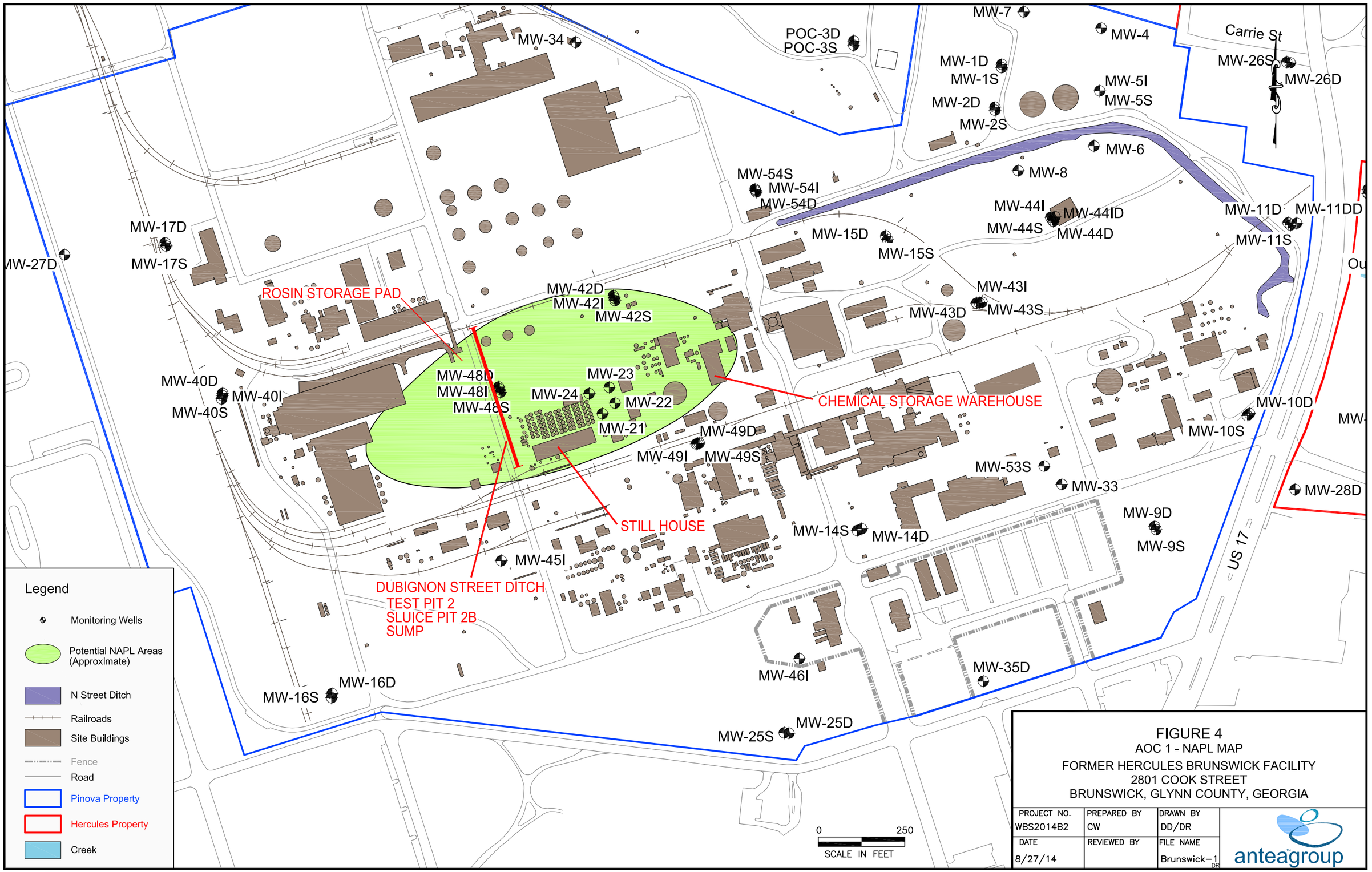


FIGURE 4
AOC 1 - NAPL MAP
FORMER HERCULES BRUNSWICK FACILITY
2801 COOK STREET
BRUNSWICK, GLYNN COUNTY, GEORGIA

PROJECT NO.	PREPARED BY	DRAWN BY
WBS2014B2	CW	DD/DR
DATE	REVIEWED BY	FILE NAME
8/27/14		Brunswick-1 DR

anteagroup

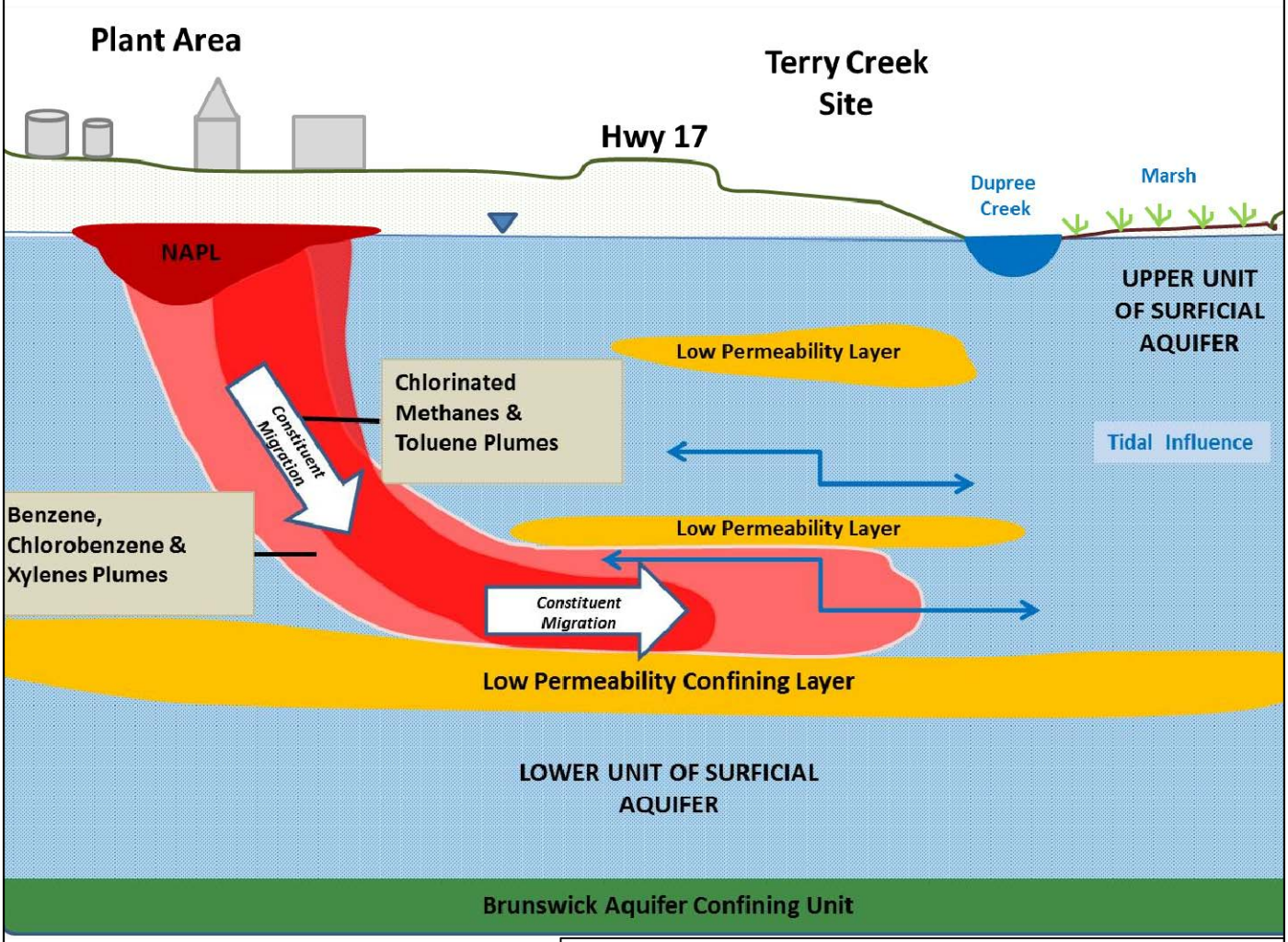


FIGURE 5
GENERAL CONCEPTUAL SITE MODEL
FORMER HERCULES BRUNSWICK FACILITY
2801 COOK STREET
BRUNSWICK, GLYNN COUNTY, GEORGIA

PROJECT NO.	PREPARED BY	DRAWN BY	
WBS2014B3	CW	DR	anteagroup
DATE	REVIEWED BY	FILE NAME	
9/19/14		Brunswick-Rpt	

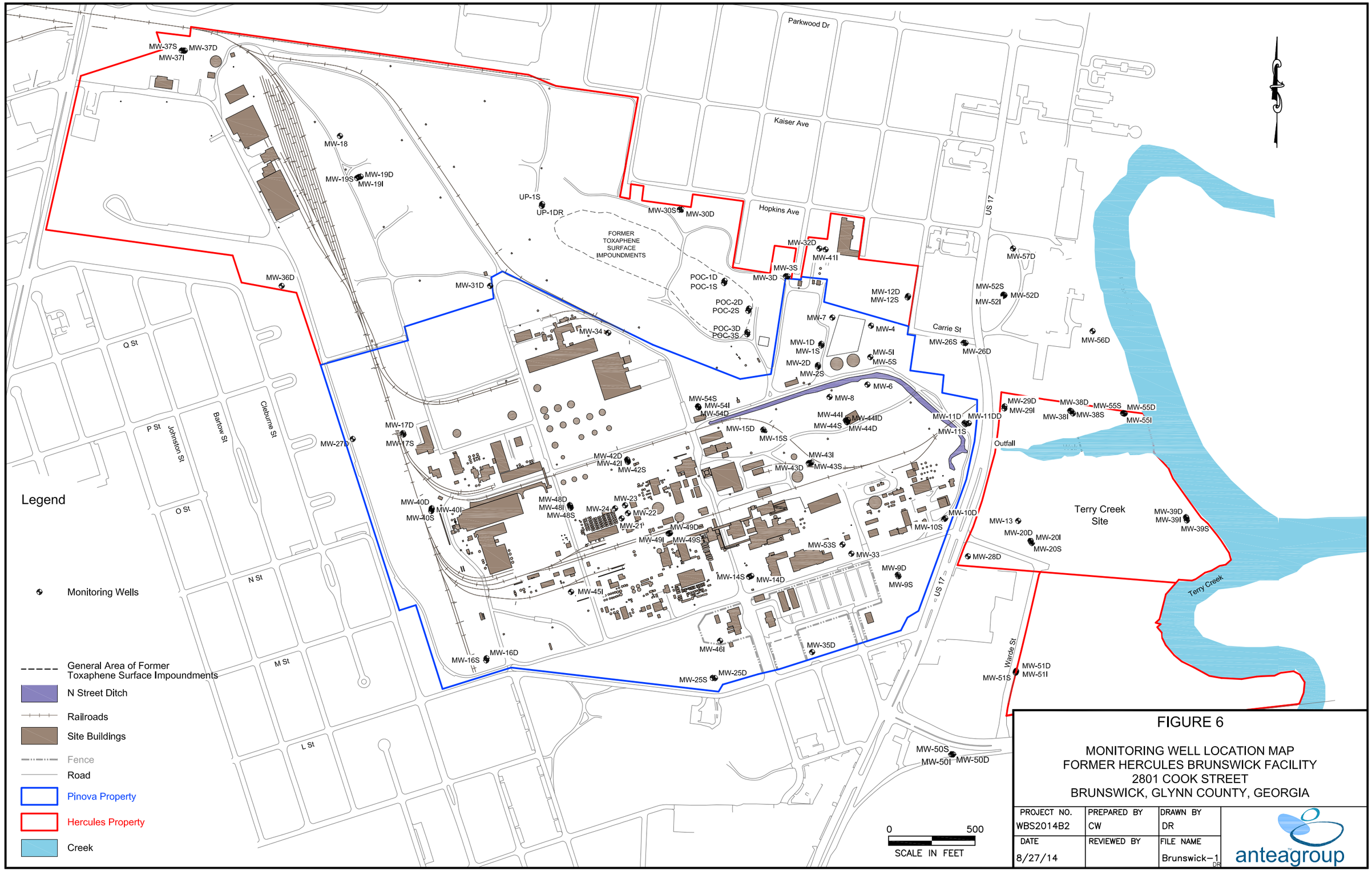
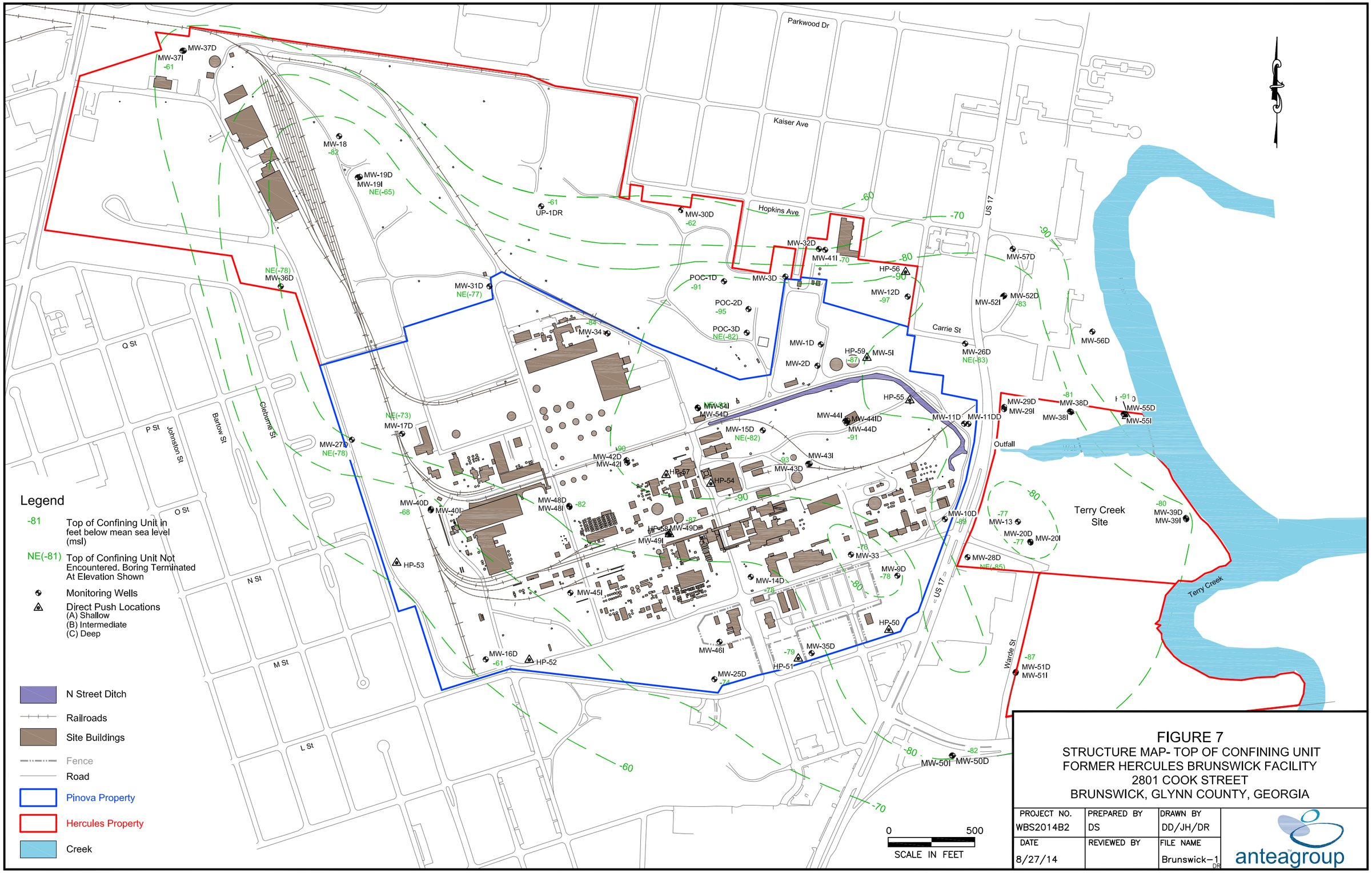


FIGURE 6

MONITORING WELL LOCATION MAP
FORMER HERCULES BRUNSWICK FACILITY
2801 COOK STREET
BRUNSWICK, GLYNN COUNTY, GEORGIA

PROJECT NO.	PREPARED BY	DRAWN BY
WBS2014B2	CW	DR
DATE	REVIEWED BY	FILE NAME
8/27/14		Brunswick-1 DR

anteagroup



Legend

- -81 — Top of Confining Unit in feet below mean sea level (msl)
- NE(-81) — Top of Confining Unit Not Encountered. Boring Terminated At Elevation Shown
- Monitoring Wells
- Direct Push Locations
  - (A) Shallow
  - (B) Intermediate
  - (C) Deep
- N Street Ditch
- Railroads
- Site Buildings
- Fence
- Road
- Pinova Property
- Hercules Property
- Creek

FIGURE 7
STRUCTURE MAP- TOP OF CONFINING UNIT
FORMER HERCULES BRUNSWICK FACILITY
2801 COOK STREET
BRUNSWICK, GLYNN COUNTY, GEORGIA

PROJECT NO.	PREPARED BY	DRAWN BY
WBS2014B2	DS	DD/JH/DR
DATE	REVIEWED BY	FILE NAME
8/27/14		Brunswick-1 DR

anteagroup

MW-37S (11.65)
MW-19S (11.16)
UP-1S (10.34)
MW-30S (8.01)
Parkwood Dr
Kaiser Ave
Hopkins Ave
MW-3S (6.57)
POC-1S (7.34)
POC-2S (6.88)
POC-3S (6.77)
MW-7
MW-4 (5.09)
MW-12S (4.79)
MW-52S (4.26)
Carrie St
MW-26S (3.94)
(4.70)
MW-1S
MW-5S (4.36)
MW-2S (4.52)
MW-6 (4.07)
MW-54S (5.44)
MW-8 (4.05)
MW-44S (4.60)
MW-15S (5.31)
MW-11S (2.67)
MW-43S (5.83)
MW-17S (9.20)
MW-42S (7.37*)
(8.31*)
MW-23
MW-24 (7.98*)
MW-22 (8.08*)
MW-21 (8.08*)
MW-48S (7.32*)
MW-40S (6.97)
MW-49S (7.71*)
MW-53S (4.65)
MW-14S (5.76)
MW-10S (3.18)
MW-9S (2.95*)
US 17
MW-16S (6.25)
MW-25S (5.54)
MW-51S (3.43)
Warde St
MW-50S (3.47)
(1.81)
MW-55S
MW-38S (3.05*)
Outfall
Terry Creek Site
MW-39S (1.29)
MW-20S (4.30*)
Terry Creek
Q St
P St
O St
N St
M St
L St
Johnston St
Barlow St
Cleburne St

Legend

Notes:
Groundwater elevations measured on 6/9/2014

Elevations reported in feet MSL

(6.97) Groundwater Elevation

Monitoring Wells

* Elevations Not Used for Contouring

2 Groundwater Contour Line

Groundwater Flow Direction

N Street Ditch

Railroads

Site Buildings

Fence

Road

Pinova Property

Hercules Property

Creek

0 500

SCALE IN FEET

FIGURE 8
POTENTIOMETRIC MAP
SURFICIAL AQUIFER - SHALLOW ZONE OF UPPER UNIT
FORMER HERCULES BRUNSWICK FACILITY
2801 COOK STREET
BRUNSWICK, GLYNN COUNTY, GEORGIA

PROJECT NO.	PREPARED BY	DRAWN BY
WBS2014B3	ME	DR
DATE	REVIEWED BY	FILE NAME
9/4/14		Brunswick-1 DR

anteagroup

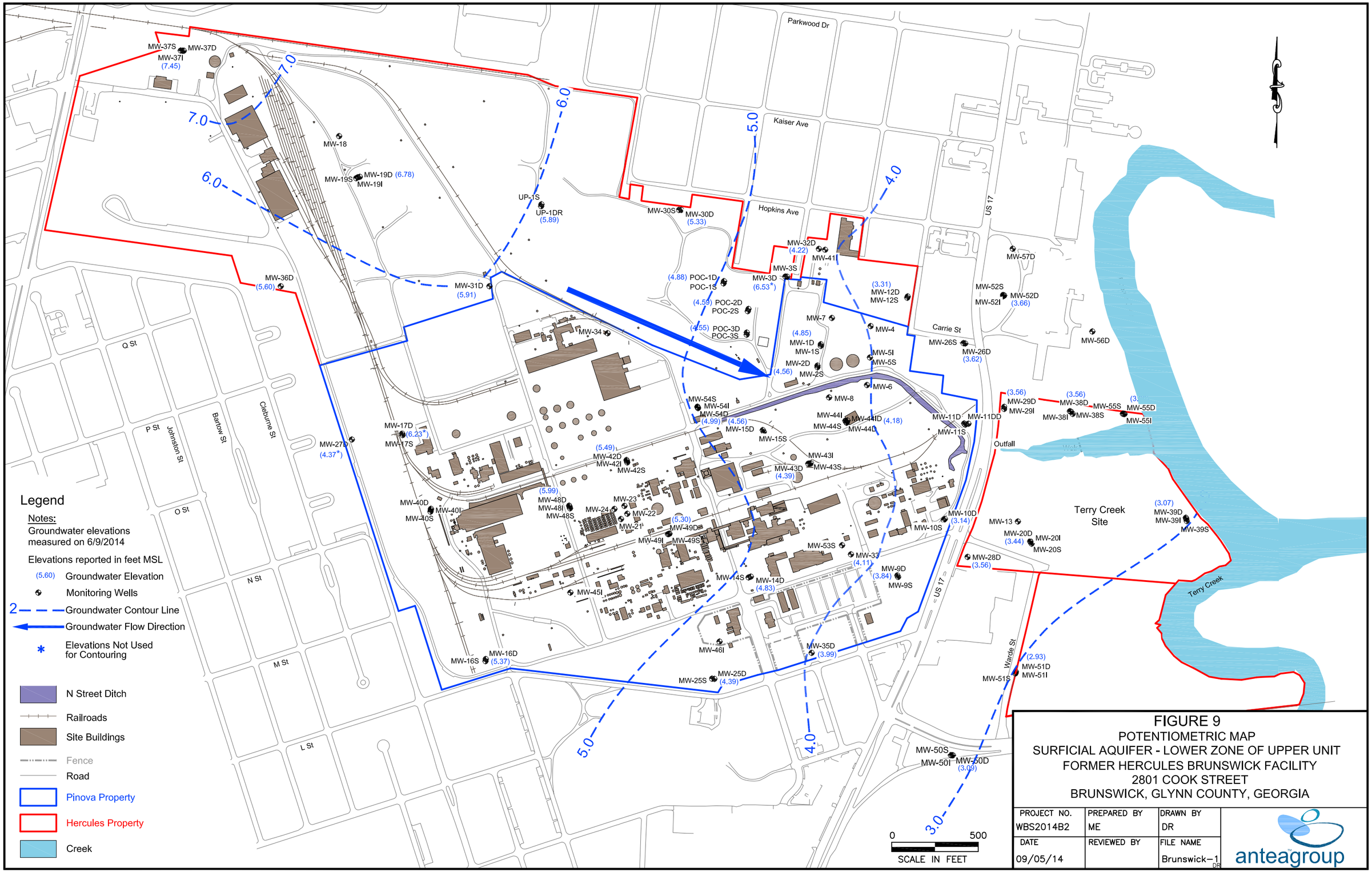


FIGURE 9
POTENTIOMETRIC MAP
SURFICIAL AQUIFER - LOWER ZONE OF UPPER UNIT
FORMER HERCULES BRUNSWICK FACILITY
2801 COOK STREET
BRUNSWICK, GLYNN COUNTY, GEORGIA

PROJECT NO.	PREPARED BY	DRAWN BY
WBS2014B2	ME	DR
DATE	REVIEWED BY	FILE NAME
09/05/14		Brunswick-1 DR

anteagroup

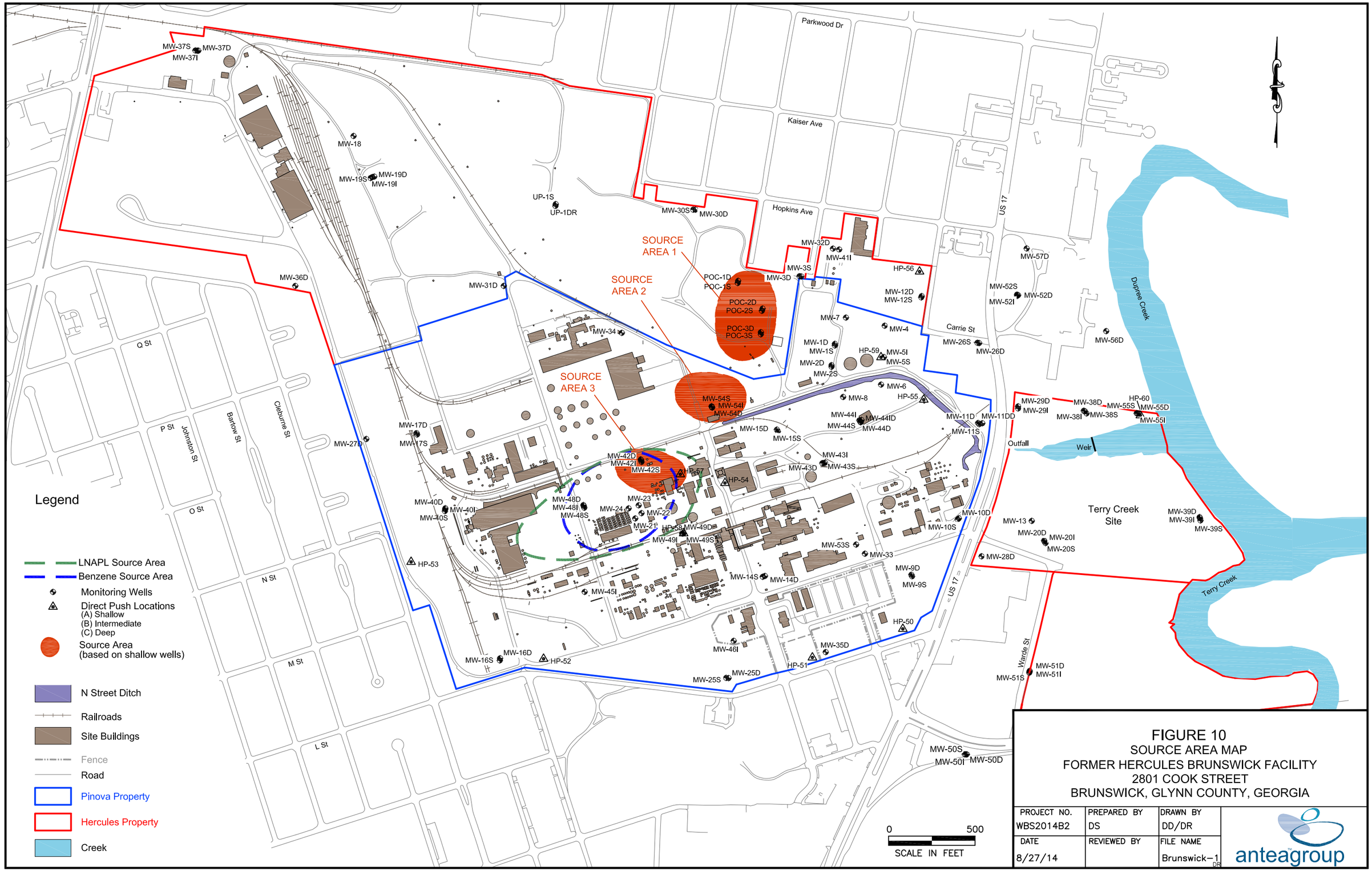
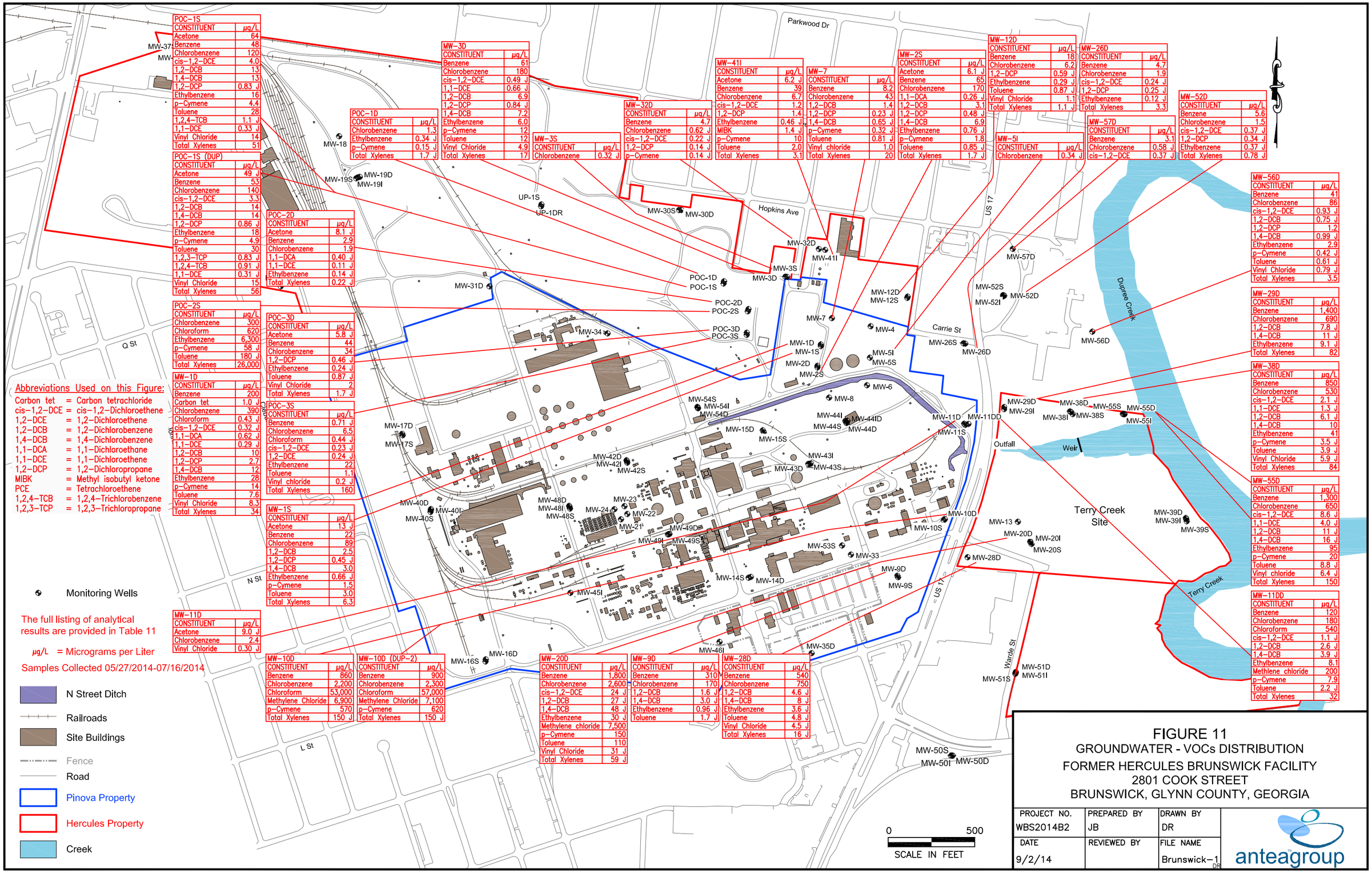


FIGURE 10
SOURCE AREA MAP
FORMER HERCULES BRUNSWICK FACILITY
2801 COOK STREET
BRUNSWICK, GLYNN COUNTY, GEORGIA

PROJECT NO.	PREPARED BY	DRAWN BY
WBS2014B2	DS	DD/DR
DATE	REVIEWED BY	FILE NAME
8/27/14		Brunswick-1 DR

anteagroup



POC-1S	
CONSTITUENT	µg/L
Acetone	64
Benzene	48
Chlorobenzene	120
cis-1,2-DCE	4.0
1,2-DCB	13
1,4-DCB	13
1,2-DCP	0.83 J
Ethylbenzene	16
p-Cymene	4.4
Toluene	28
1,2,4-TCB	1.1 J
1,1-DCE	0.33 J
Vinyl Chloride	14
Total Xylenes	51

POC-1S (DUP)	
CONSTITUENT	µg/L
Acetone	49 J
Benzene	53
Chlorobenzene	140
cis-1,2-DCE	3.3
1,2-DCB	14
1,4-DCB	14
1,2-DCP	0.86 J
Ethylbenzene	18
p-Cymene	4.9
Toluene	30
1,2,3-TCP	0.83 J
1,2,4-TCB	0.91 J
1,1-DCE	0.31 J
Vinyl Chloride	15
Total Xylenes	56

POC-2S	
CONSTITUENT	µg/L
Chlorobenzene	300
Chloroform	620
Ethylbenzene	6,300
p-Cymene	58 J
Toluene	180 J
Total Xylenes	26,000

MW-1D	
CONSTITUENT	µg/L
Benzene	200
Carbon tet	1.0 J
Chlorobenzene	390
Chloroform	0.43 J
cis-1,2-DCE	0.32 J
1,1-DCA	0.62 J
1,1-DCE	0.29 J
1,2-DCB	10
1,2-DCP	2.7
1,4-DCB	12
Ethylbenzene	28
p-Cymene	14
Toluene	7.6
Vinyl Chloride	8.3
Total Xylenes	34

POC-1D	
CONSTITUENT	µg/L
Chlorobenzene	1.3
Ethylbenzene	0.34 J
p-Cymene	0.15 J
Total Xylenes	1.7 J

POC-2D	
CONSTITUENT	µg/L
Acetone	8.1 J
Benzene	2.9
Chlorobenzene	1.9
1,1-DCA	0.40 J
1,1-DCE	0.11 J
Ethylbenzene	0.14 J
Total Xylenes	0.22 J

POC-3D	
CONSTITUENT	µg/L
Acetone	5.8 J
Benzene	44
Chlorobenzene	34
1,2-DCP	0.46 J
Ethylbenzene	0.24 J
Toluene	0.87 J
Vinyl Chloride	2
Total Xylenes	1.7 J

POC-3S	
CONSTITUENT	µg/L
Benzene	0.71 J
Chlorobenzene	6.5
Chloroform	0.44 J
cis-1,2-DCE	0.23 J
1,2-DCE	0.24 J
Ethylbenzene	22
Toluene	1.1
Vinyl chloride	0.2 J
Total Xylenes	160

MW-1S	
CONSTITUENT	µg/L
Acetone	13 J
Benzene	22
Chlorobenzene	89
1,2-DCB	2.5
1,2-DCP	0.45 J
1,4-DCB	3.0
Ethylbenzene	0.66 J
p-Cymene	1.5
Toluene	3.0
Total Xylenes	6.3

MW-3D	
CONSTITUENT	µg/L
Benzene	61
Chlorobenzene	180
cis-1,2-DCE	0.49 J
1,1-DCE	0.66 J
1,2-DCB	6.9
1,2-DCP	0.84 J
1,4-DCB	7.2
Ethylbenzene	6.0
p-Cymene	12
Toluene	12
Vinyl Chloride	4.9
Total Xylenes	17

MW-3S	
CONSTITUENT	µg/L
Chlorobenzene	0.32 J

MW-32D	
CONSTITUENT	µg/L
Benzene	4.7
Chlorobenzene	0.62 J
cis-1,2-DCE	0.22 J
1,2-DCP	0.14 J
p-Cymene	0.14 J

MW-41I	
CONSTITUENT	µg/L
Acetone	6.2 J
Benzene	39
Chlorobenzene	6.7
cis-1,2-DCE	1.2
1,2-DCP	1.4
Ethylbenzene	0.46 J
MIBK	1.4 J
p-Cymene	10
Toluene	2.0
Total Xylenes	3.1

MW-7	
CONSTITUENT	µg/L
Benzene	8.2
Chlorobenzene	14
1,2-DCB	1.4
1,2-DCP	0.23 J
1,4-DCB	0.65 J
p-Cymene	0.32 J
Toluene	0.81 J
Vinyl chloride	1.0
Total Xylenes	20

MW-2S	
CONSTITUENT	µg/L
Acetone	6.1 J
Benzene	65
Chlorobenzene	170
1,1-DCA	0.26 J
1,2-DCB	3.1
1,2-DCP	0.48 J
1,4-DCB	6.9
Ethylbenzene	0.76 J
p-Cymene	1.8
Toluene	0.85 J
Total Xylenes	1.7 J

MW-12D	
CONSTITUENT	µg/L
Benzene	18
Chlorobenzene	6.2
1,2-DCP	0.59 J
Ethylbenzene	0.29 J
Toluene	0.87 J
Vinyl Chloride	1.1
Total Xylenes	1.1 J

MW-26D	
CONSTITUENT	µg/L
Benzene	4.7
Chlorobenzene	1.9
cis-1,2-DCE	0.24 J
1,2-DCP	0.25 J
Ethylbenzene	0.12 J
Total Xylenes	3.3

MW-5I	
CONSTITUENT	µg/L
Chlorobenzene	0.34 J

MW-57D	
CONSTITUENT	µg/L
Benzene	3.1
Chlorobenzene	0.58 J
cis-1,2-DCE	0.37 J

MW-52D	
CONSTITUENT	µg/L
Benzene	5.6
Chlorobenzene	1.5
cis-1,2-DCE	0.37 J
1,2-DCP	0.34 J
Ethylbenzene	0.37 J
Total Xylenes	0.78 J

MW-56D	
CONSTITUENT	µg/L
Benzene	41
Chlorobenzene	86
cis-1,2-DCE	0.93 J
1,2-DCB	0.75 J
1,2-DCP	1.2
1,4-DCB	0.99 J
Ethylbenzene	2.9
p-Cymene	0.42 J
Toluene	0.61 J
Vinyl Chloride	0.79 J
Total Xylenes	3.5

MW-29D	
CONSTITUENT	µg/L
Benzene	1,400
Chlorobenzene	690
1,2-DCB	7.8 J
1,4-DCB	11 J
Ethylbenzene	9.1 J
Total Xylenes	82

MW-38D	
CONSTITUENT	µg/L
Benzene	850
Chlorobenzene	530
cis-1,2-DCE	2.1 J
1,1-DCE	1.3 J
1,2-DCB	6.1 J
1,4-DCB	10
Ethylbenzene	41
p-Cymene	3.5 J
Toluene	3.9 J
Vinyl Chloride	5.9 J
Total Xylenes	84

MW-55D	
CONSTITUENT	µg/L
Benzene	1,300
Chlorobenzene	650
cis-1,2-DCE	8.6 J
1,1-DCE	4.0 J
1,2-DCB	11 J
1,4-DCB	16 J
Ethylbenzene	95
p-Cymene	20
Toluene	8.8 J
Vinyl chloride	6.4 J
Total Xylenes	150

MW-11DD	
CONSTITUENT	µg/L
Benzene	120
Chlorobenzene	160
Chloroform	540
cis-1,2-DCE	1.1 J
1,2-DCB	2.6 J
1,4-DCB	3.9 J
Ethylbenzene	8.1
Methlene chloride	200
p-Cymene	7.9
Toluene	2.2 J
Total Xylenes	32

MW-11D	
CONSTITUENT	µg/L
Acetone	9.0 J
Chlorobenzene	2.4
Vinyl Chloride	0.30 J

MW-10D	
CONSTITUENT	µg/L
Benzene	860
Chlorobenzene	2,200
Chloroform	53,000
Methylene Chloride	6,900
p-Cymene	570
Total Xylenes	150 J

MW-10D (DUP-2)	
CONSTITUENT	µg/L
Benzene	900
Chlorobenzene	2,300
Chloroform	57,000
Methylene Chloride	7,100
p-Cymene	620
Total Xylenes	150 J

MW-20D	
CONSTITUENT	µg/L
Benzene	1,800
Chlorobenzene	2,600
cis-1,2-DCE	24 J
1,2-DCB	27 J
1,4-DCB	48 J
Ethylbenzene	30 J
Methylene chloride	7,500
p-Cymene	150
Toluene	110
Vinyl Chloride	31 J
Total Xylenes	59 J

MW-9D	
CONSTITUENT	µg/L
Benzene	310
Chlorobenzene	170
1,2-DCB	1.6 J
1,4-DCB	3.0 J
Ethylbenzene	0.96 J
Toluene	1.7 J

MW-28D	
CONSTITUENT	µg/L
Benzene	540
Chlorobenzene	750
1,2-DCB	4.6 J
1,4-DCB	8 J
Ethylbenzene	3.6 J
Toluene	4.8 J
Vinyl Chloride	4.5 J
Total Xylenes	16 J

Abbreviations Used on this Figure:

Carbon tet	=	Carbon tetrachloride
cis-1,2-DCE	=	cis-1,2-Dichloroethene
1,2-DCE	=	1,2-Dichloroethene
1,2-DCB	=	1,2-Dichlorobenzene
1,4-DCB	=	1,4-Dichlorobenzene
1,1-DCA	=	1,1-Dichloroethane
1,1-DCE	=	1,1-Dichloroethene
1,2-DCP	=	1,2-Dichloropropane
MIBK	=	Methyl isobutyl ketone
PCE	=	Tetrachloroethene
1,2,4-TCB	=	1,2,4-Trichlorobenzene
1,2,3-TCP	=	1,2,3-Trichloropropane

Monitoring Wells

The full listing of analytical results are provided in Table 11

µg/L = Micrograms per Liter

Samples Collected 05/27/2014-07/16/2014

N Street Ditch

Railroads

Site Buildings

Fence

Road

Pinova Property

Hercules Property

Creek

FIGURE 11
GROUNDWATER - VOCs DISTRIBUTION
FORMER HERCULES BRUNSWICK FACILITY
2801 COOK STREET
BRUNSWICK, GLYNN COUNTY, GEORGIA

PROJECT NO.	PREPARED BY	DRAWN BY
WBS2014B2	JB	DR
DATE	REVIEWED BY	FILE NAME
9/2/14		Brunswick-1 DR

anteagroup

POC-2D	
Date	6/10/14
CONSTITUENT	µg/L
Toxaphene, Total	0.89 J

POC-1D	
Date	6/10/14
CONSTITUENT	µg/L
Toxaphene, Total	0.67 J

POC-1S	
Date	6/10/14
CONSTITUENT	µg/L
Toxaphene, Total	26
Formaldehyde	21 J

POC-1S (DUP)	
Date	6/10/14
CONSTITUENT	µg/L
Toxaphene, Total	20
Formaldehyde	23 J

POC-2S	
Date	6/12/14
CONSTITUENT	µg/L
Alpha-BHC	14
Delta-BHC	3.8
Gamma BHC	7.2
Toxaphene, Tech	420
Toxaphene, Total	810

POC-3D	
Date	6/12/14
CONSTITUENT	µg/L
bis(2-Ethylhexyl)phthalate	1.8 J
Toxaphene, Total	1.4 J

POC-3D	
Date	7/16/14
CONSTITUENT	µg/L
bis(2-Ethylhexyl)phthalate	3.2 J
Toxaphene, Total	2.4 J

MW-57D	
Date	7/16/14
CONSTITUENT	µg/L
Benzo(g,h,i,)perylene	4.9 J
Dibenzo(a,h,)anthracene	2.8 J
Formaldehyde	23 J

MW-52D	
Date	6/11/14
CONSTITUENT	µg/L
Toxaphene, Total	0.73 J

MW-11D	
Date	6/11/14
CONSTITUENT	µg/L
Toxaphene, Total	2.0 J

MW-56D	
Date	7/16/14
CONSTITUENT	µg/L
Toxaphene, Total	2.1 J
Formaldehyde	24 J

MW-29D	
Date	6/11/14
CONSTITUENT	µg/L
Acetophenone	2.6 J
Phenol	23
Alpha-BHC	0.28
Toxaphene, Total	9.6

MW-38D	
Date	6/11/14
CONSTITUENT	µg/L
Acetophenone	2.3 J
Phenol	19
Alpha-BHC	0.16
Toxaphene, Total	6.4
Formaldehyde	7.7 J

MW-55D	
Date	6/10/14
CONSTITUENT	µg/L
Acetophenone	3.6 J
Phenol	9.3 J
Alpha-BHC	0.21
Toxaphene, Total	9.1
Formaldehyde	7.1 J

MW-10D (DUP-2)	
Date	6/12/14
CONSTITUENT	µg/L
Acetophenone	3.2 J
Toxaphene, Total	47

MW-10D	
Date	6/12/14
CONSTITUENT	µg/L
Toxaphene, Total	94

MW-20D	
Date	6/10/14
CONSTITUENT	µg/L
Alpha-BHC	0.37
Phenol	12
Toxaphene, Total	38
Formaldehyde	7.2 J

POC-3S	
Date	6/12/14
CONSTITUENT	µg/L
Acetoohenone	0.89 J
Aldrin	0.15
Alpha-BHC	0.099
Toxaphene, Tech	9.7
Toxaphene, Total	14

POC-3S	
Date	7/16/14
CONSTITUENT	µg/L
Acetoohenone	6.4 J
Naphthalene	1.8 J
Alpha-BHC	4.0
Gamma-BHC	1.3
Toxaphene, Total	210

POC-3S (DUP)	
Date	7/16/14
CONSTITUENT	µg/L
Acetoohenone	11
Alpha-BHC	3.7
Gamma-BHC	1.2
Toxaphene, Total	270

MW-12D	
Date	6/11/14
CONSTITUENT	µg/L
Toxaphene, Total	1.9 J

MW-11DD	
Date	7/16/14
CONSTITUENT	µg/L
Toxaphene, Total	3.4 Jp
Formaldehyde	17 J

MW-9D	
Date	6/10/14
CONSTITUENT	µg/L
Acetophenone	2.0 J
Alpha-BHC	0.15
Delta-BHC	0.54
Toxaphene, Total	7.8
Formaldehyde	6.6 J

MW-28D	
Date	6/12/14
CONSTITUENT	µg/L
Naphthalene	1.7 J
Toxaphene, Total	16

Parkwood Dr
Kaiser Ave
Hopkins Ave
Carrie St
US 17
Dupree Creek
Outfall
Weir
Terry Creek Site
Terry Creek
Warde St
Q St
P St
O St
N St
M St
L St
Johnston St
Bartow St
Cleburne St

MW-37S MW-37D MW-37I
MW-18
MW-19S MW-19D MW-19I
MW-36D
MW-31D
MW-34
UP-1S UP-1DR
MW-30S MW-30D
POC-1D POC-1S
POC-2D POC-2S
POC-3D POC-3S
MW-3S MW-3D
MW-32D MW-41I
MW-12D MW-12S
MW-7
MW-4
MW-1D MW-1S
MW-2D MW-2S
MW-5I MW-5S
MW-6
MW-8
MW-54S MW-54I MW-54D
MW-15D MW-15S
MW-44I MW-44S MW-44ID MW-44D
MW-11D MW-11DD MW-11S
MW-42D MW-42I MW-42S
MW-43I MW-43D MW-43S
MW-40D MW-40I MW-40S
MW-48D MW-48I MW-48S
MW-23 MW-24 MW-22 MW-21
MW-49D MW-49I MW-49S
MW-53S MW-33
MW-14S MW-14D
MW-45I
MW-46I
MW-35D
MW-16S MW-16D
MW-25S MW-25D
MW-9D MW-9S
MW-10D MW-10S
MW-13
MW-20D MW-20I MW-20S
MW-28D
MW-39D MW-39I MW-39S
MW-50S MW-50I MW-50D
MW-51D MW-51I MW-51S
MW-52S MW-52I MW-52D
MW-57D
MW-26S MW-26D
MW-56D
MW-29D MW-29I
MW-38D MW-38I MW-38S
MW-55S MW-55D MW-55I

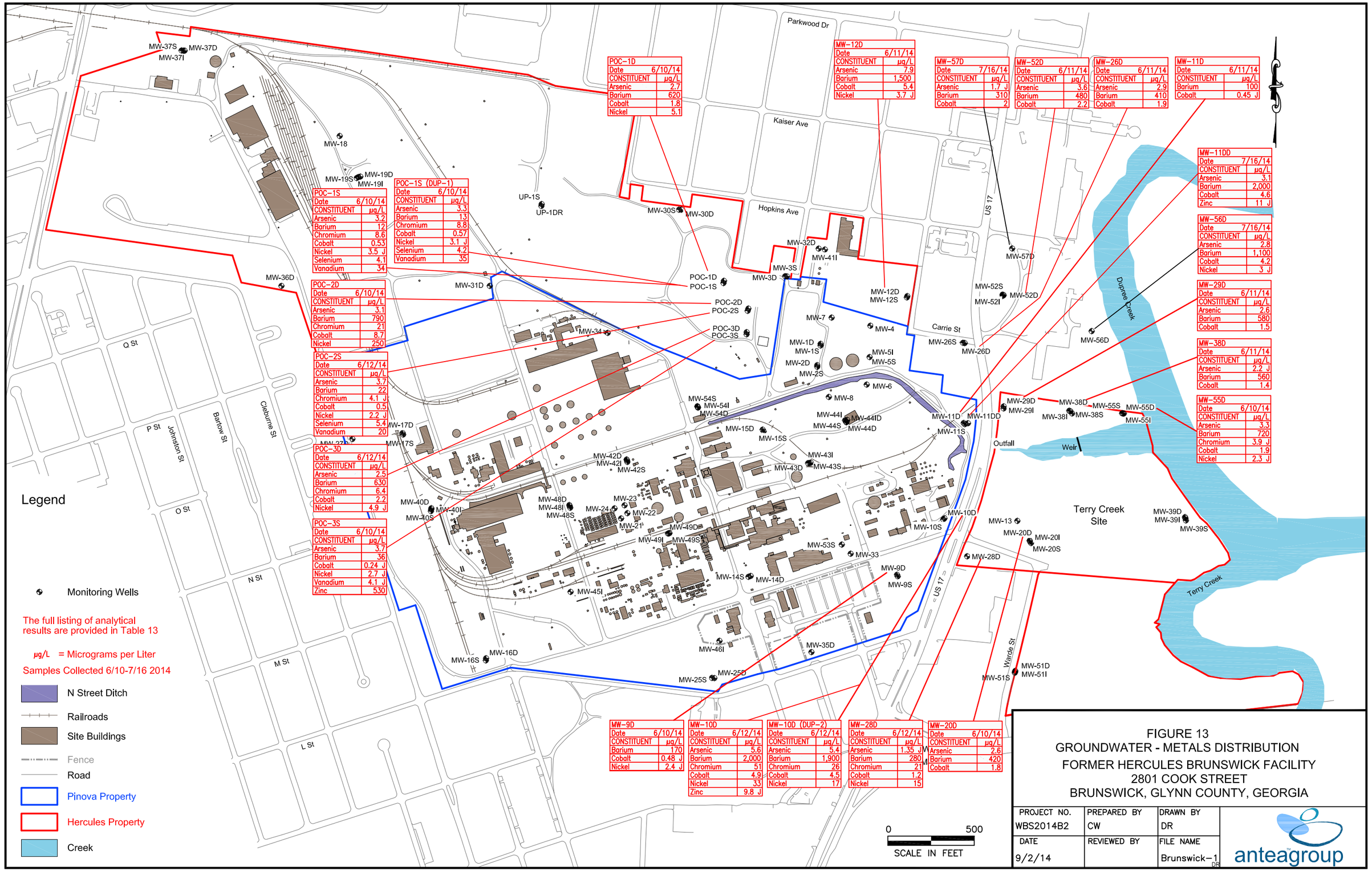
Legend

- Monitoring Wells
- The full listing of analytical results are provided in Table 12
- µg/L = Micrograms per Liter
- Samples Collected 6/10/2014-7/16/2014
- N Street Ditch
- Railroads
- Site Buildings
- Fence
- Road
- Pinova Property
- Hercules Property
- Creek

0 500
SCALE IN FEET

FIGURE 12
GROUNDWATER - SVOCs , PESTICIDES, AND FORMALDEHYDE DISTRIBUTION
FORMER HERCULES BRUNSWICK FACILITY
2801 COOK STREET
BRUNSWICK, GLYNN COUNTY, GEORGIA

PROJECT NO.	PREPARED BY	DRAWN BY	
WBS2014B2	CW	DR	
DATE	REVIEWED BY	FILE NAME	
12/10/14		Brunswick-1 DR	anteagroup



POC-1D	
Date	6/10/14
CONSTITUENT	µg/L
Arsenic	2.7
Barium	620
Cobalt	1.8
Nickel	5.1

MW-12D	
Date	6/11/14
CONSTITUENT	µg/L
Arsenic	7.9
Barium	1,500
Cobalt	5.4
Nickel	3.7 J

MW-57D	
Date	7/16/14
CONSTITUENT	µg/L
Arsenic	1.7 J
Barium	310
Cobalt	2

MW-52D	
Date	6/11/14
CONSTITUENT	µg/L
Arsenic	3.6
Barium	480
Cobalt	2.2

MW-26D	
Date	6/11/14
CONSTITUENT	µg/L
Arsenic	2.9
Barium	410
Cobalt	1.9

MW-11D	
Date	6/11/14
CONSTITUENT	µg/L
Barium	100
Cobalt	0.45 J

MW-11DD	
Date	7/16/14
CONSTITUENT	µg/L
Arsenic	3.1
Barium	2,000
Cobalt	4.6
Zinc	11 J

MW-56D	
Date	7/16/14
CONSTITUENT	µg/L
Arsenic	2.8
Barium	1,100
Cobalt	4.2
Nickel	3 J

MW-29D	
Date	6/11/14
CONSTITUENT	µg/L
Arsenic	2.6
Barium	580
Cobalt	1.5

MW-38D	
Date	6/11/14
CONSTITUENT	µg/L
Arsenic	2.2 J
Barium	560
Cobalt	1.4

MW-55D	
Date	6/10/14
CONSTITUENT	µg/L
Arsenic	3.3
Barium	720
Chromium	3.9 J
Cobalt	1.9
Nickel	2.3 J

POC-1S	
Date	6/10/14
CONSTITUENT	µg/L
Arsenic	3.2
Barium	12
Chromium	8.6
Cobalt	0.53
Nickel	3.5 J
Selenium	4.1
Vanadium	34

POC-1S (DUP-1)	
Date	6/10/14
CONSTITUENT	µg/L
Arsenic	3.3
Barium	13
Chromium	8.8
Cobalt	0.57
Nickel	3.1 J
Selenium	4.2
Vanadium	35

POC-2D	
Date	6/10/14
CONSTITUENT	µg/L
Arsenic	3.1
Barium	790
Chromium	21
Cobalt	8.7
Nickel	250

POC-2S	
Date	6/12/14
CONSTITUENT	µg/L
Arsenic	3.7
Barium	22
Chromium	4.1 J
Cobalt	0.5
Nickel	2.2 J
Selenium	5.4
Vanadium	20

POC-3D	
Date	6/12/14
CONSTITUENT	µg/L
Arsenic	2.5
Barium	630
Chromium	6.4
Cobalt	2.2
Nickel	4.9 J

POC-3S	
Date	6/10/14
CONSTITUENT	µg/L
Arsenic	3.7
Barium	36
Cobalt	0.24 J
Nickel	2.7 J
Vanadium	4.1 J
Zinc	530

MW-9D	
Date	6/10/14
CONSTITUENT	µg/L
Barium	170
Cobalt	0.48 J
Nickel	2.4 J

MW-10D	
Date	6/12/14
CONSTITUENT	µg/L
Arsenic	5.6
Barium	2,000
Chromium	51
Cobalt	4.9
Nickel	33
Zinc	9.8 J

MW-10D (DUP-2)	
Date	6/12/14
CONSTITUENT	µg/L
Arsenic	5.4
Barium	1,900
Chromium	26
Cobalt	4.5
Nickel	17

MW-28D	
Date	6/12/14
CONSTITUENT	µg/L
Arsenic	1.35 J
Barium	280
Chromium	21
Cobalt	1.2
Nickel	15

MW-20D	
Date	6/10/14
CONSTITUENT	µg/L
Arsenic	2.6
Barium	420
Cobalt	1.8

Legend

- Monitoring Wells

The full listing of analytical results are provided in Table 13

µg/L = Micrograms per Liter

Samples Collected 6/10-7/16 2014

- N Street Ditch
- Railroads
- Site Buildings
- Fence
- Road
- Pinova Property
- Hercules Property
- Creek

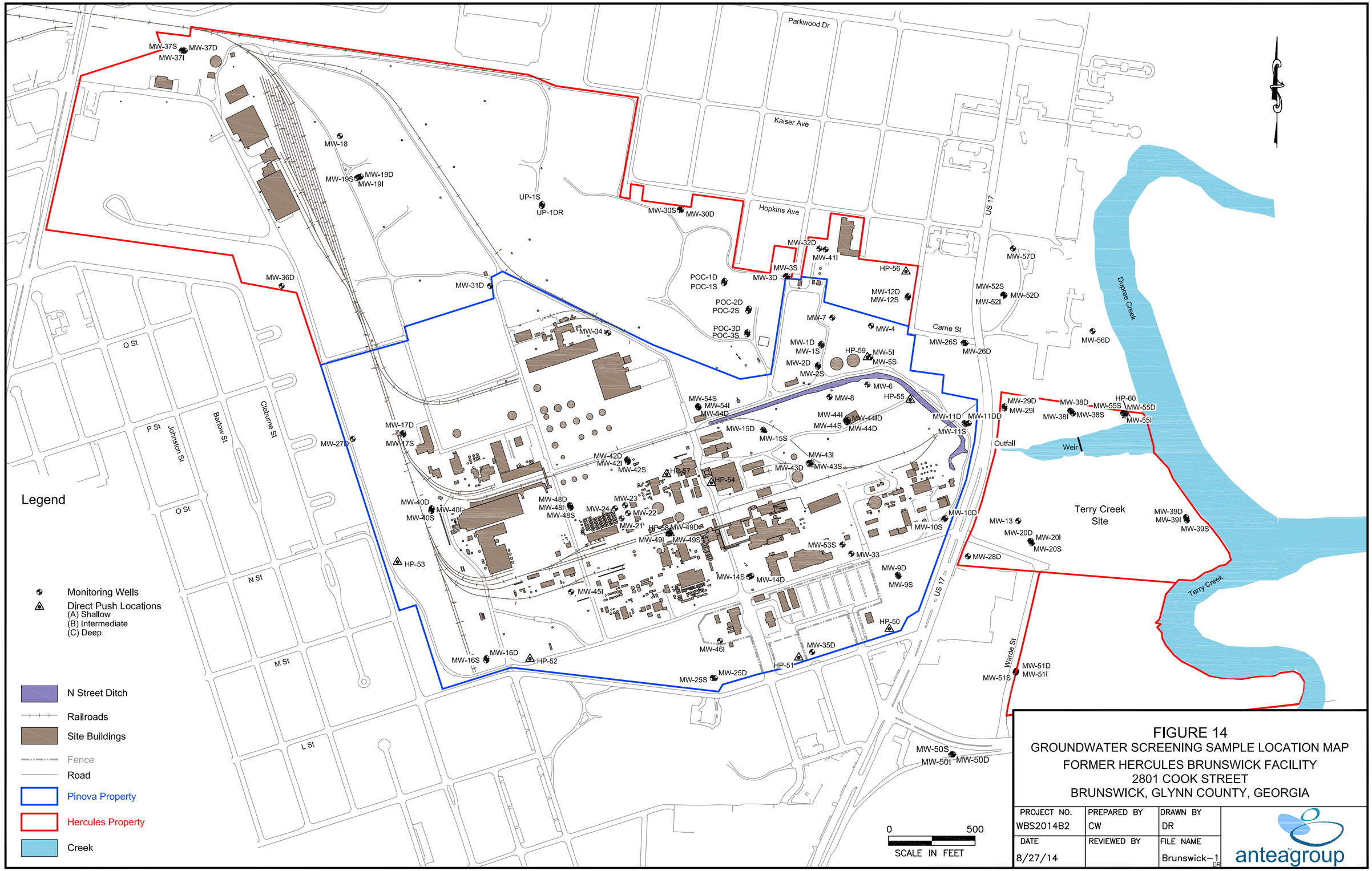
0 500

SCALE IN FEET

FIGURE 13
GROUNDWATER - METALS DISTRIBUTION
FORMER HERCULES BRUNSWICK FACILITY
2801 COOK STREET
BRUNSWICK, GLYNN COUNTY, GEORGIA

PROJECT NO.	PREPARED BY	DRAWN BY
WBS2014B2	CW	DR
DATE	REVIEWED BY	FILE NAME
9/2/14		Brunswick-1 DR

anteagroup



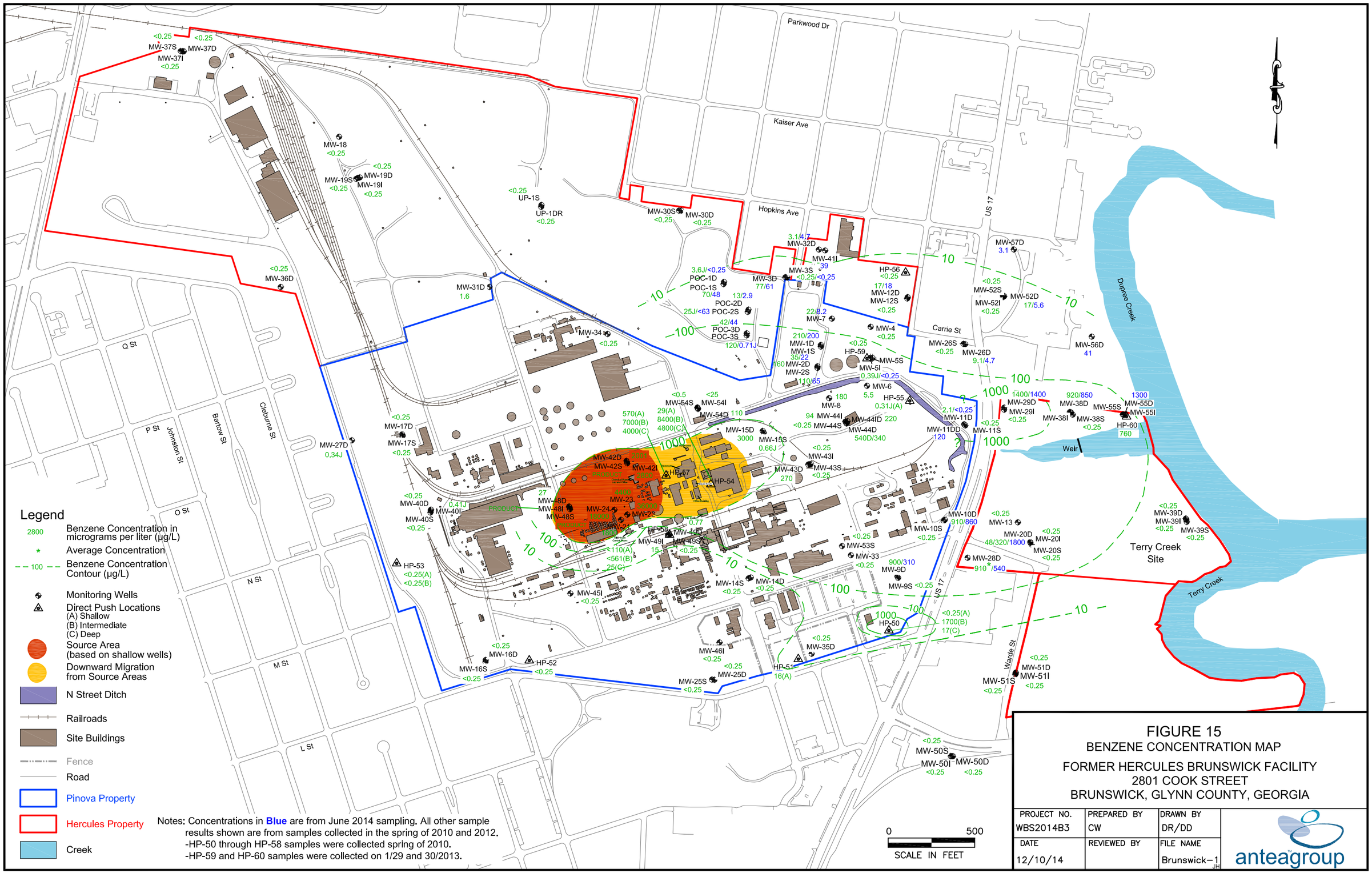
Legend

- Monitoring Wells
- Direct Push Locations
  - (A) Shallow
  - (B) Intermediate
  - (C) Deep
- N Street Ditch
- Railroads
- Site Buildings
- Fence
- Road
- Pinova Property
- Hercules Property
- Creek

FIGURE 14
GROUNDWATER SCREENING SAMPLE LOCATION MAP
FORMER HERCULES BRUNSWICK FACILITY
2801 COOK STREET
BRUNSWICK, GLYNN COUNTY, GEORGIA

PROJECT NO.	PREPARED BY	DRAWN BY
WBS2014B2	CW	DR
DATE	REVIEWED BY	FILE NAME
8/27/14		Brunswick-1 DR

anteagroup



Legend

- Benzene Concentration in micrograms per liter (µg/L) — e.g. 2800
- Average Concentration — *
- Benzene Concentration Contour (µg/L) — 100
- Monitoring Wells
- Direct Push Locations
  - (A) Shallow
  - (B) Intermediate
  - (C) Deep
- Source Area (based on shallow wells)
- Downward Migration from Source Areas
- N Street Ditch
- Railroads
- Site Buildings
- Fence
- Road
- Pinova Property
- Hercules Property
- Creek

Notes: Concentrations in **Blue** are from June 2014 sampling. All other sample results shown are from samples collected in the spring of 2010 and 2012.
-HP-50 through HP-58 samples were collected spring of 2010.
-HP-59 and HP-60 samples were collected on 1/29 and 30/2013.

FIGURE 15
BENZENE CONCENTRATION MAP

FORMER HERCULES BRUNSWICK FACILITY
2801 COOK STREET
BRUNSWICK, GLYNN COUNTY, GEORGIA

PROJECT NO.	PREPARED BY	DRAWN BY
WBS2014B3	CW	DR/DD
DATE	REVIEWED BY	FILE NAME
12/10/14		Brunswick-1 JH

anteagroup

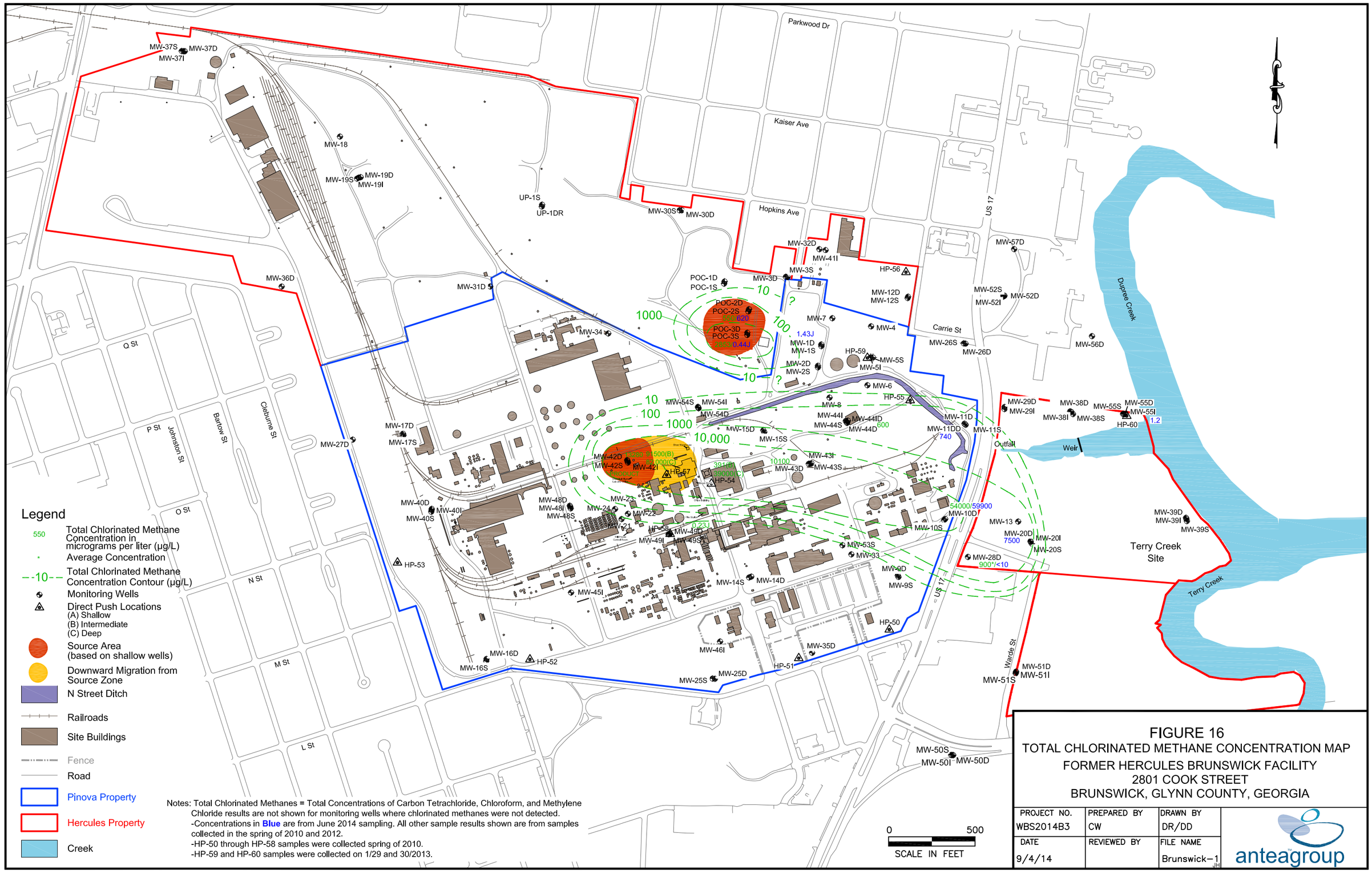
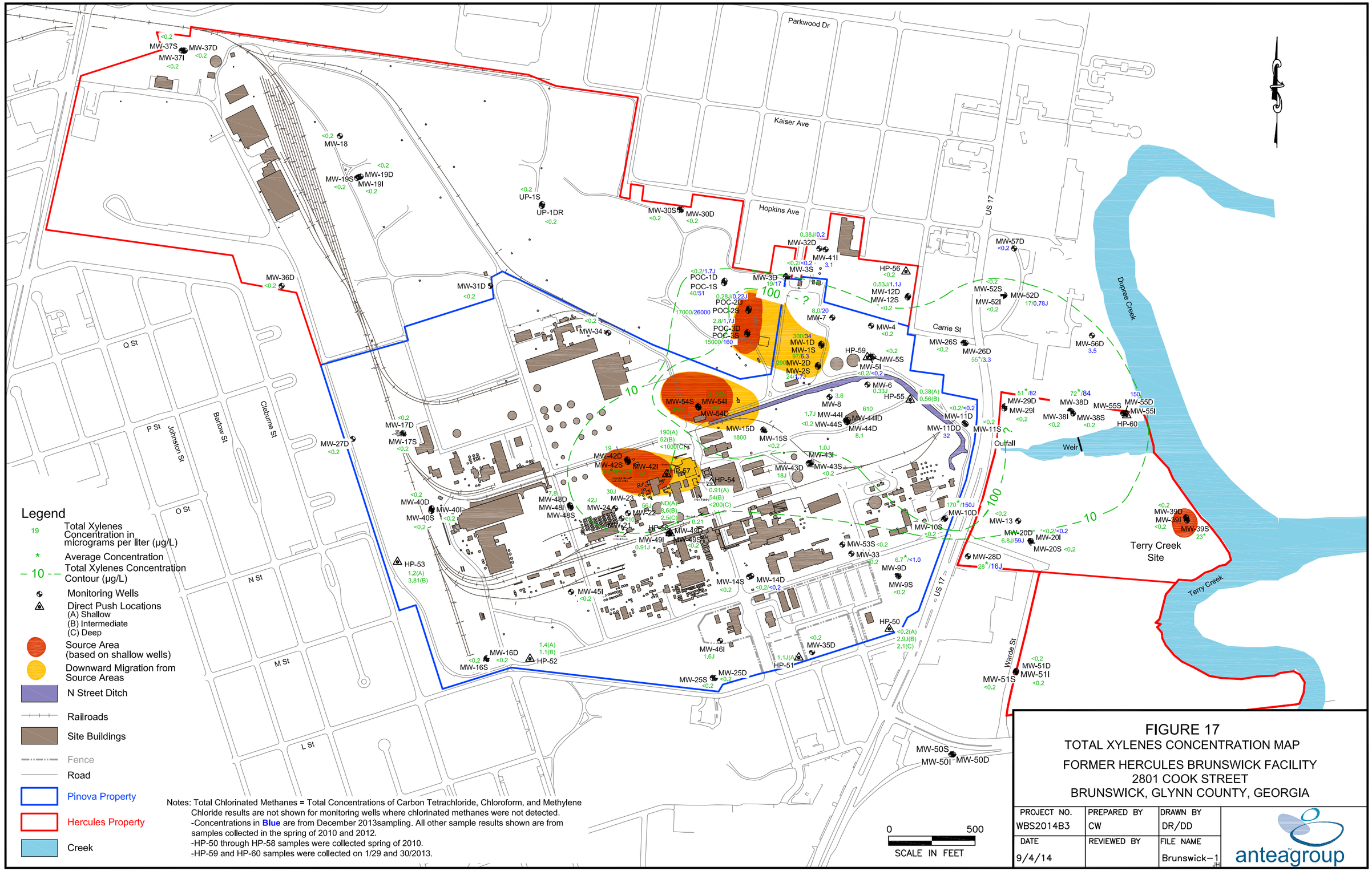


FIGURE 16
TOTAL CHLORINATED METHANE CONCENTRATION MAP
FORMER HERCULES BRUNSWICK FACILITY
2801 COOK STREET
BRUNSWICK, GLYNN COUNTY, GEORGIA

PROJECT NO.	PREPARED BY	DRAWN BY
WBS2014B3	CW	DR/DD
DATE	REVIEWED BY	FILE NAME
9/4/14		Brunswick-1 JH

anteagroup



Legend

- 19 — Total Xylenes Concentration in micrograms per liter (µg/L)
- * — Average Concentration
- – 10 – – Total Xylenes Concentration Contour (µg/L)
- Monitoring Wells
- Direct Push Locations
  - (A) Shallow
  - (B) Intermediate
  - (C) Deep
- Source Area (based on shallow wells)
- Downward Migration from Source Areas
- N Street Ditch
- Railroads
- Site Buildings
- Fence
- Road
- Pinova Property
- Hercules Property
- Creek

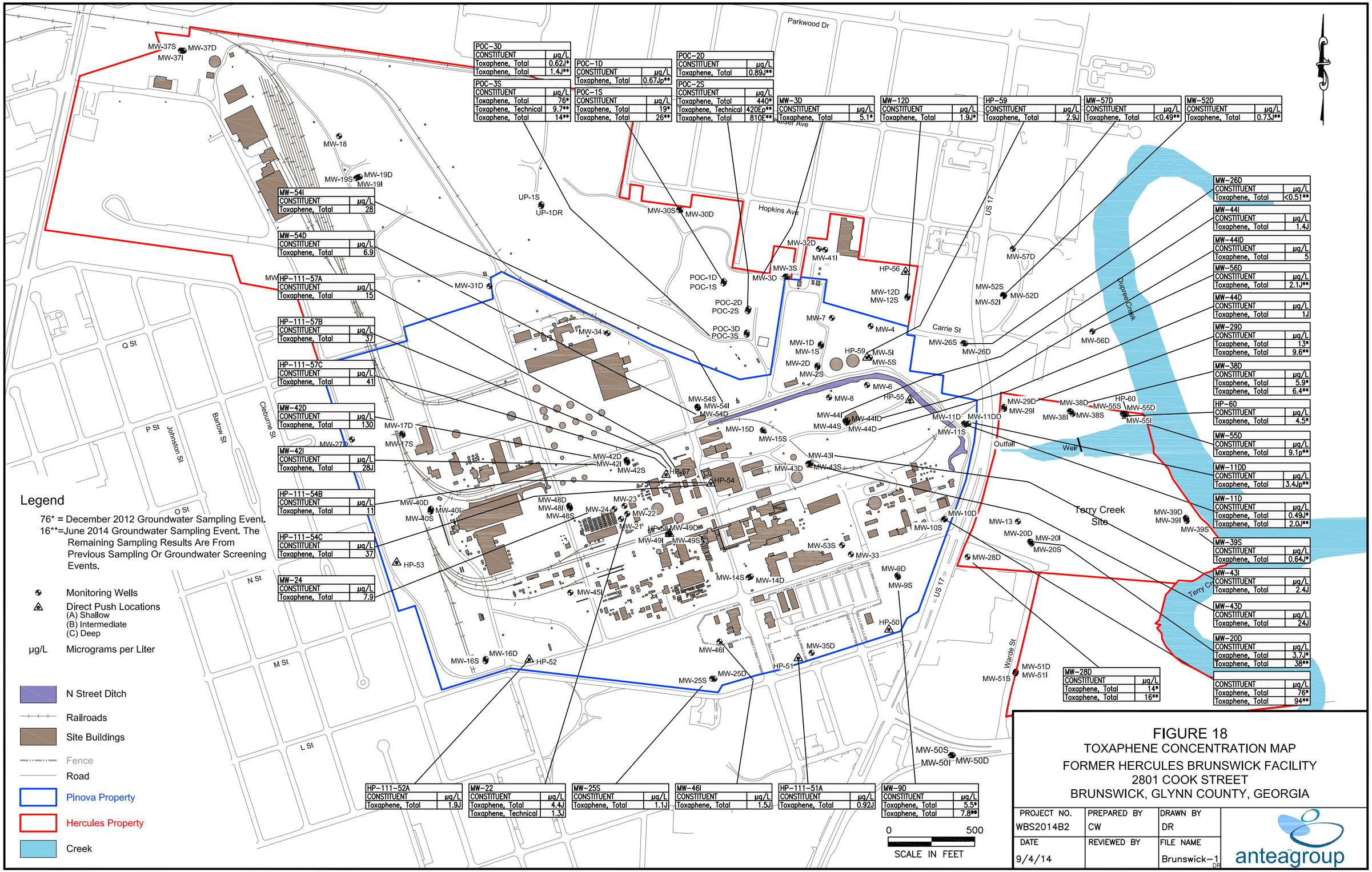
Notes: Total Chlorinated Methanes = Total Concentrations of Carbon Tetrachloride, Chloroform, and Methylene Chloride results are not shown for monitoring wells where chlorinated methanes were not detected.
-Concentrations in **Blue** are from December 2013sampling. All other sample results shown are from samples collected in the spring of 2010 and 2012.
-HP-50 through HP-58 samples were collected spring of 2010.
-HP-59 and HP-60 samples were collected on 1/29 and 30/2013.

0 500
SCALE IN FEET

FIGURE 17
TOTAL XYLENES CONCENTRATION MAP
FORMER HERCULES BRUNSWICK FACILITY
2801 COOK STREET
BRUNSWICK, GLYNN COUNTY, GEORGIA

PROJECT NO.	PREPARED BY	DRAWN BY
WBS2014B3	CW	DR/DD
DATE	REVIEWED BY	FILE NAME
9/4/14		Brunswick-1 JH

anteagroup



POC-3D	
CONSTITUENT	µg/L
Toxaphene, Total	0.62J*
Toxaphene, Total	1.4J**

POC-3S	
CONSTITUENT	µg/L
Toxaphene, Total	76*
Toxaphene, Technical	9.7**
Toxaphene, Total	14**

POC-1D	
CONSTITUENT	µg/L
Toxaphene, Total	0.67Jp**

POC-1S	
CONSTITUENT	µg/L
Toxaphene, Total	19*
Toxaphene, Total	26**

POC-2D	
CONSTITUENT	µg/L
Toxaphene, Total	0.89J**

POC-2S	
CONSTITUENT	µg/L
Toxaphene, Total	440*
Toxaphene, Technical	420Ep**
Toxaphene, Total	810E**

MW-3D	
CONSTITUENT	µg/L
Toxaphene, Total	5.1*

MW-12D	
CONSTITUENT	µg/L
Toxaphene, Total	1.9J*

HP-59	
CONSTITUENT	µg/L
Toxaphene, Total	2.9J

MW-57D	
CONSTITUENT	µg/L
Toxaphene, Total	<0.49**

MW-52D	
CONSTITUENT	µg/L
Toxaphene, Total	0.73J**

MW-54I	
CONSTITUENT	µg/L
Toxaphene, Total	28

MW-54D	
CONSTITUENT	µg/L
Toxaphene, Total	6.9

HP-111-57A	
CONSTITUENT	µg/L
Toxaphene, Total	15

HP-111-57B	
CONSTITUENT	µg/L
Toxaphene, Total	37

HP-111-57C	
CONSTITUENT	µg/L
Toxaphene, Total	41

MW-42D	
CONSTITUENT	µg/L
Toxaphene, Total	130

MW-42I	
CONSTITUENT	µg/L
Toxaphene, Total	28J

HP-111-54B	
CONSTITUENT	µg/L
Toxaphene, Total	11

HP-111-54C	
CONSTITUENT	µg/L
Toxaphene, Total	37

MW-24	
CONSTITUENT	µg/L
Toxaphene, Total	7.9

MW-26D	
CONSTITUENT	µg/L
Toxaphene, Total	<0.51**

MW-44I	
CONSTITUENT	µg/L
Toxaphene, Total	1.4J

MW-44ID	
CONSTITUENT	µg/L
Toxaphene, Total	5

MW-56D	
CONSTITUENT	µg/L
Toxaphene, Total	2.1J**

MW-44D	
CONSTITUENT	µg/L
Toxaphene, Total	1J

MW-29D	
CONSTITUENT	µg/L
Toxaphene, Total	13*
Toxaphene, Total	9.6**

MW-38D	
CONSTITUENT	µg/L
Toxaphene, Total	5.9*
Toxaphene, Total	6.4**

HP-60	
CONSTITUENT	µg/L
Toxaphene, Total	4.5*

MW-55D	
CONSTITUENT	µg/L
Toxaphene, Total	9.1p**

MW-11DD	
CONSTITUENT	µg/L
Toxaphene, Total	3.4Jp**

MW-11D	
CONSTITUENT	µg/L
Toxaphene, Total	0.49J*
Toxaphene, Total	2.0J**

MW-39S	
CONSTITUENT	µg/L
Toxaphene, Total	0.64J*

MW-43I	
CONSTITUENT	µg/L
Toxaphene, Total	2.4J

MW-43D	
CONSTITUENT	µg/L
Toxaphene, Total	24J

MW-20D	
CONSTITUENT	µg/L
Toxaphene, Total	3.7J*
Toxaphene, Total	38**

CONSTITUENT	µg/L
Toxaphene, Total	76*
Toxaphene, Total	94**

MW-28D	
CONSTITUENT	µg/L
Toxaphene, Total	14*
Toxaphene, Total	16**

HP-111-52A	
CONSTITUENT	µg/L
Toxaphene, Total	1.9J

MW-22	
CONSTITUENT	µg/L
Toxaphene, Total	4.4J
Toxaphene, Technical	1.3J

MW-25S	
CONSTITUENT	µg/L
Toxaphene, Total	1.1J

MW-46I	
CONSTITUENT	µg/L
Toxaphene, Total	1.5J

HP-111-51A	
CONSTITUENT	µg/L
Toxaphene, Total	0.92J

MW-9D	
CONSTITUENT	µg/L
Toxaphene, Total	5.5*
Toxaphene, Total	7.8**

Legend

76* = December 2012 Groundwater Sampling Event.
16**=June 2014 Groundwater Sampling Event. The Remaining Sampling Results Are From Previous Sampling Or Groundwater Screening Events.

- Monitoring Wells
- Direct Push Locations
  (A) Shallow
  (B) Intermediate
  (C) Deep
- µg/L Micrograms per Liter
- N Street Ditch
- Railroads
- Site Buildings
- Fence
- Road
- Pinova Property
- Hercules Property
- Creek

0 500
SCALE IN FEET

FIGURE 18
TOXAPHENE CONCENTRATION MAP
FORMER HERCULES BRUNSWICK FACILITY
2801 COOK STREET
BRUNSWICK, GLYNN COUNTY, GEORGIA

PROJECT NO.	PREPARED BY	DRAWN BY	
WBS2014B2	CW	DR	
DATE	REVIEWED BY	FILE NAME	
9/4/14		Brunswick-1 DR	anteagroup

FIGURE 19 - Facility Production Wells

Former Hercules - Brunswick Facility
2801 Cook St
Brunswick GA

PROJECT NO:	WBS2014B2
DATE:	9/19/2014
SCALE:	NTS
DRAWN BY:	CW

anteagroup
8008 Corporate Center Dr., Ste. 100
Charlotte, North Carolina 28226

Document Path: \\gis-s3\GIS_Data\Sandbox\IProjects\A-E\Ashland_BrunswickGA\WBS2014B2\Layout\20141210_WaterSupplyWells\Fig20_WaterSupplyWells.mxd

Figure 20

Water Supply Wells
Former Hercules - Brunswick Facility
2801 Cook Street
Brunswick, GA

PROJECT NO.	PREPARED BY	REF SCALE
WBS2015B2	ACS	1:5,400
DATE	REVIEWED BY	MAP SCALE
12/16/2014	CW	1 inch = 450 feet

anteagroup

Legend

- Commercial Well
- Irrigation Well
- Residential Well
- Industrial Well
- Public Supply Well
- Pinova Property
- Ashland Property

0 250 500 1,000 1,500 2,000 Feet

N

Appendix A

Flood Plain Map

MAP SCALE 1" = 500'

250 0 500 1000 FEET

METERS

NFIP NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0236F

FIRM

FLOOD INSURANCE RATE MAP

GLYNN COUNTY, GEORGIA
AND INCORPORATED AREAS

PANEL 236 OF 345

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
BRUNSWICK, CITY OF	130093	0236	F
GLYNN COUNTY	130092	0236	F

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER
13127C0236F

EFFECTIVE DATE
SEPTEMBER 6, 2006

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on this title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov

Appendix B

Well Construction Details and Boring Logs

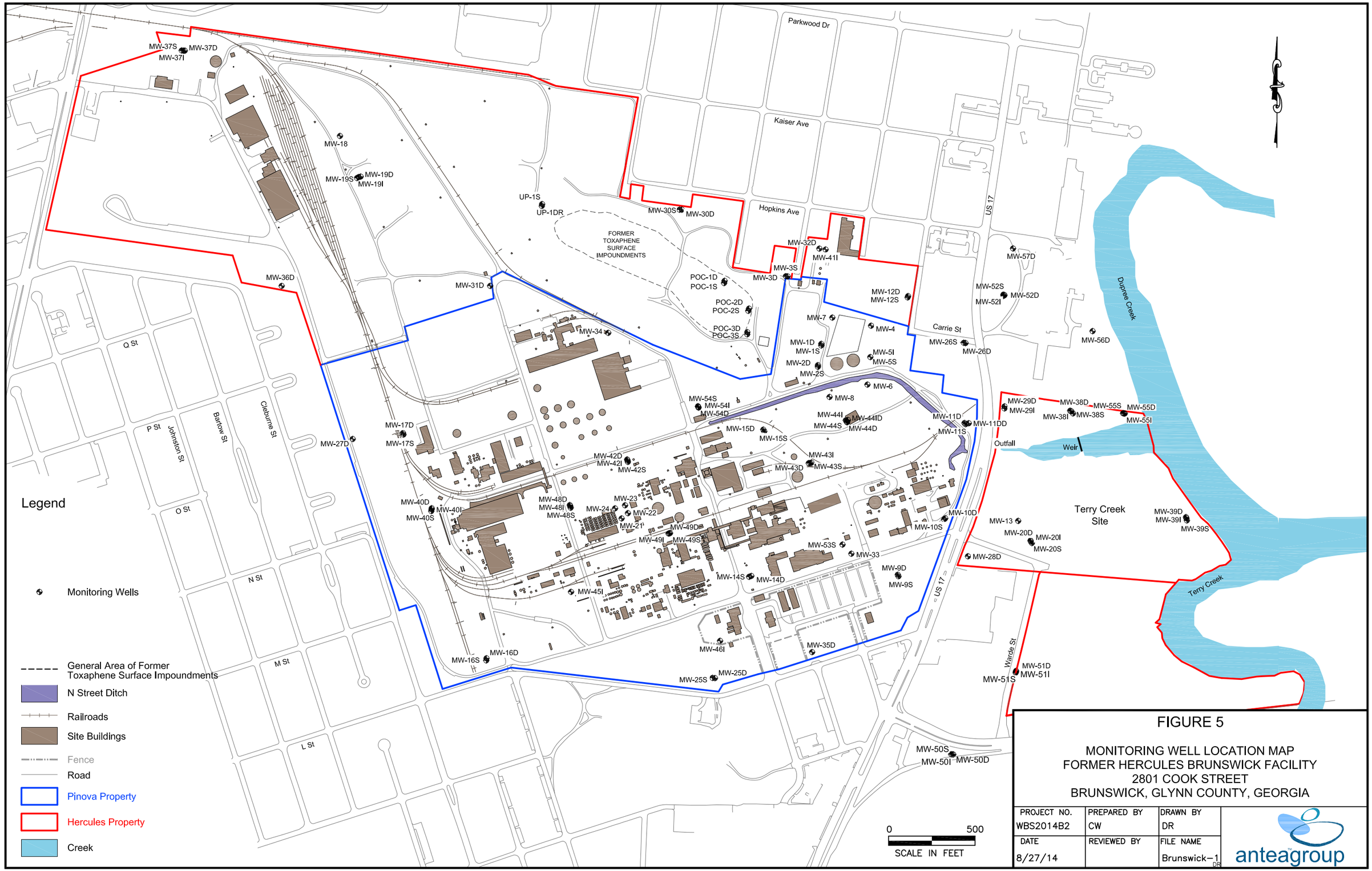


FIGURE 5

MONITORING WELL LOCATION MAP
FORMER HERCULES BRUNSWICK FACILITY
2801 COOK STREET
BRUNSWICK, GLYNN COUNTY, GEORGIA

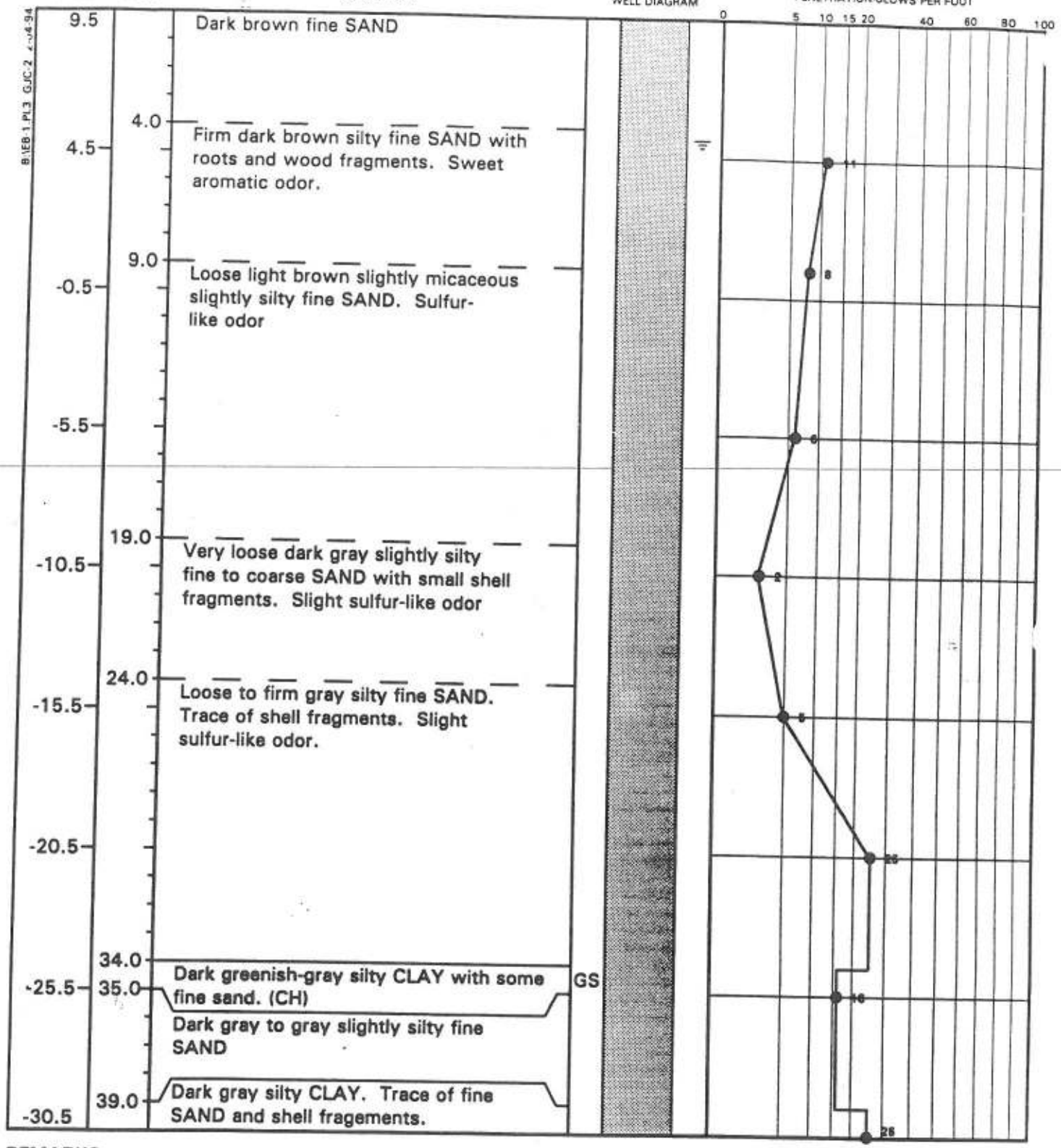
PROJECT NO.	PREPARED BY	DRAWN BY
WBS2014B2	CW	DR
DATE	REVIEWED BY	FILE NAME
8/27/14		Brunswick–1 DR

anteagroup

Previous Geologic Logs

TEST BORING RECORD

DATUM ELEVATION: 9.51 Ft.
HEIGHT OF RISER: 0.00 Ft.



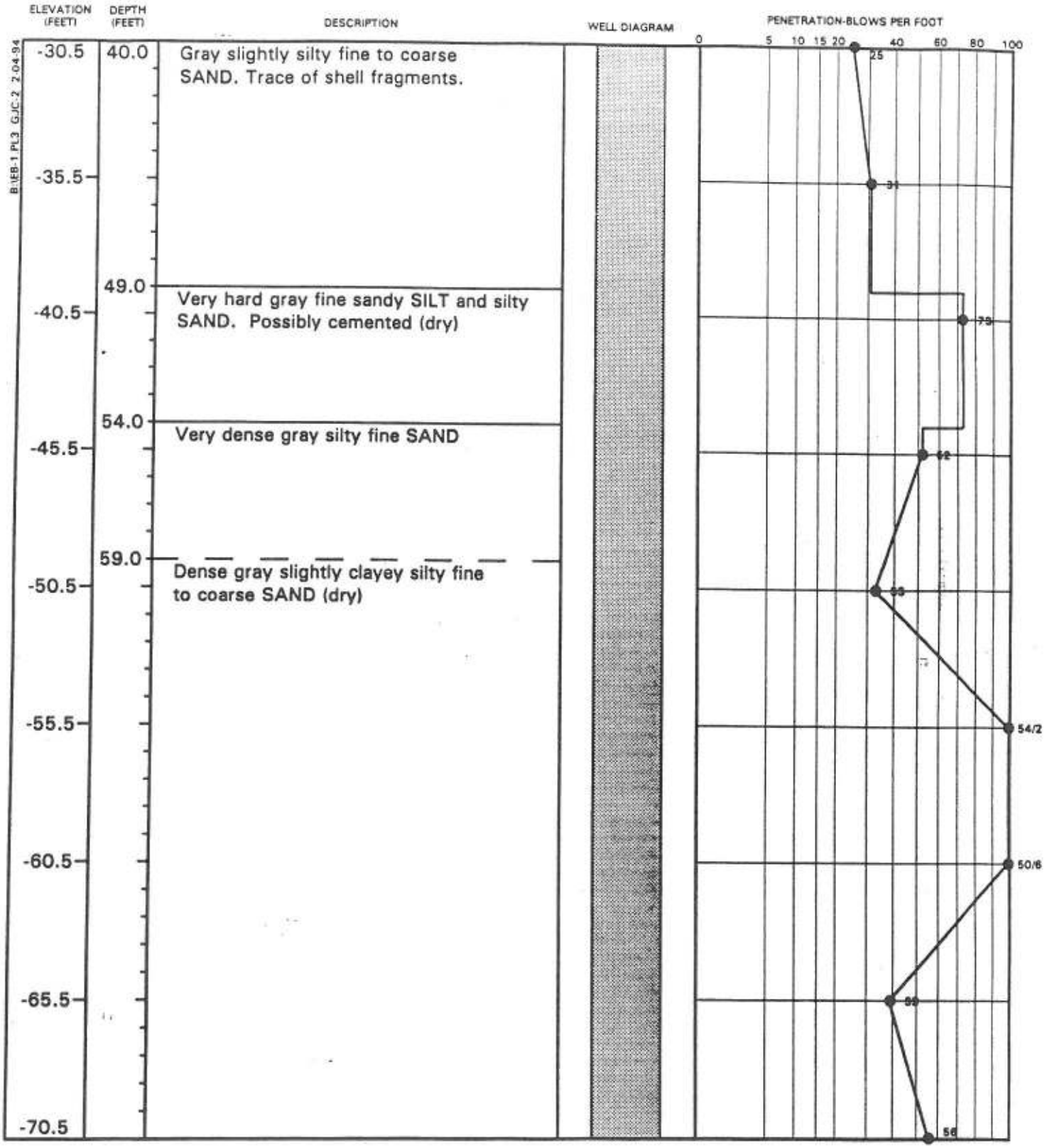
REMARKS:

1) Drilling Technique: Wash rotary utilizing a 5 7/8-inch rotary drill bit.
2) Boring grouted with Portland cement - bentonite slurry.
3) ▽ Water level during drilling.
4) CH - Unified Soil Classification

DRILLED BY	LAW-ATL	BORING NUMBER	EB-1
LOGGED BY	D.Allen	DATE STARTED	9-14-93
CHECKED BY	K.Davis	DATE COMPLETED	9-17-93
		JOB NUMBER	55-3553

Law Environmental

TEST BORING RECORD

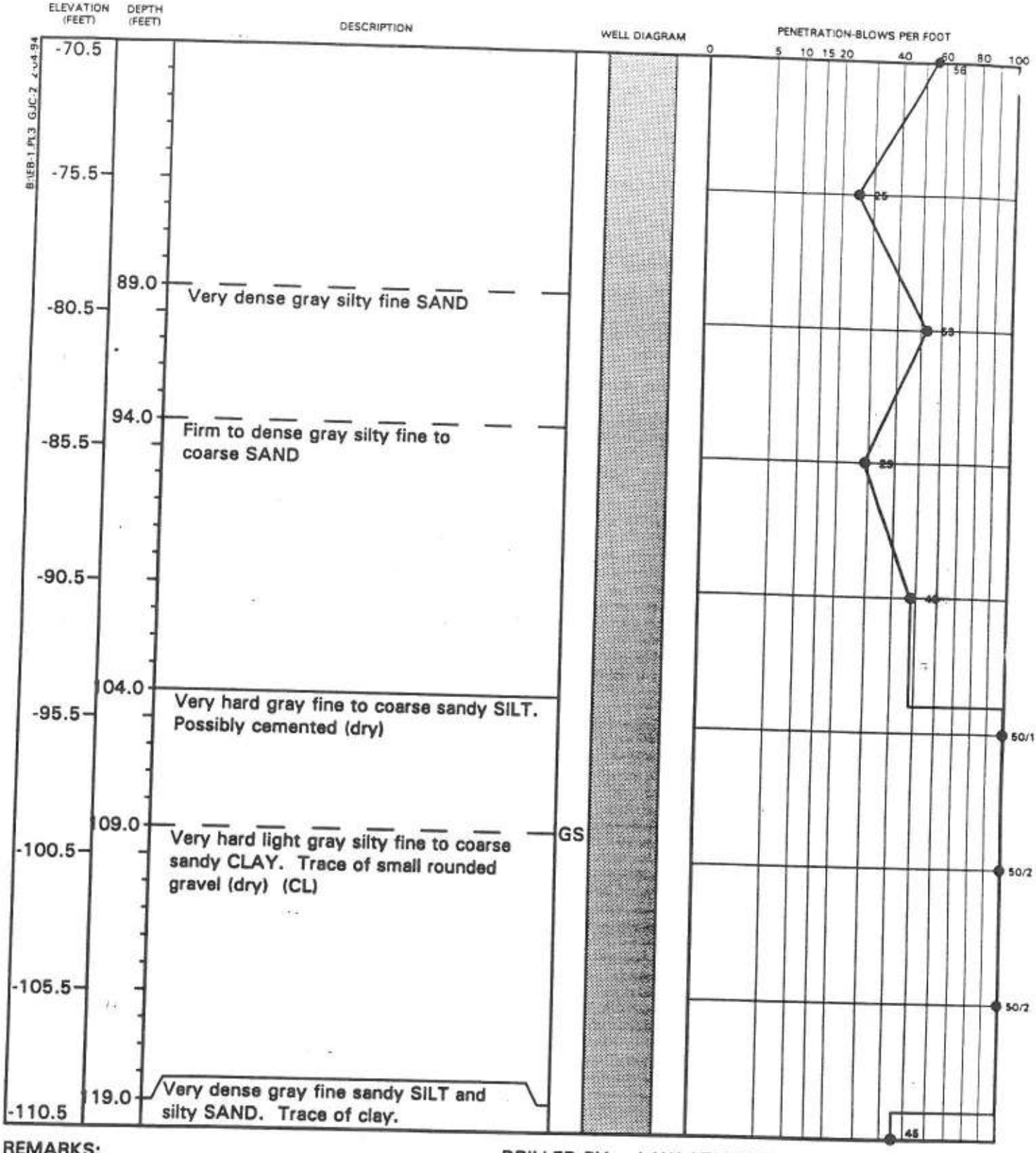


REMARKS:

DRILLED BY	LAW-ATL	BORING NUMBER	EB-1
LOGGED BY	D.Allen	DATE STARTED	9-14-93
CHECKED BY	K.Davis	DATE COMPLETED	9-17-93
		JOB NUMBER	55-355310

Law Environmental

TEST BORING RECORD

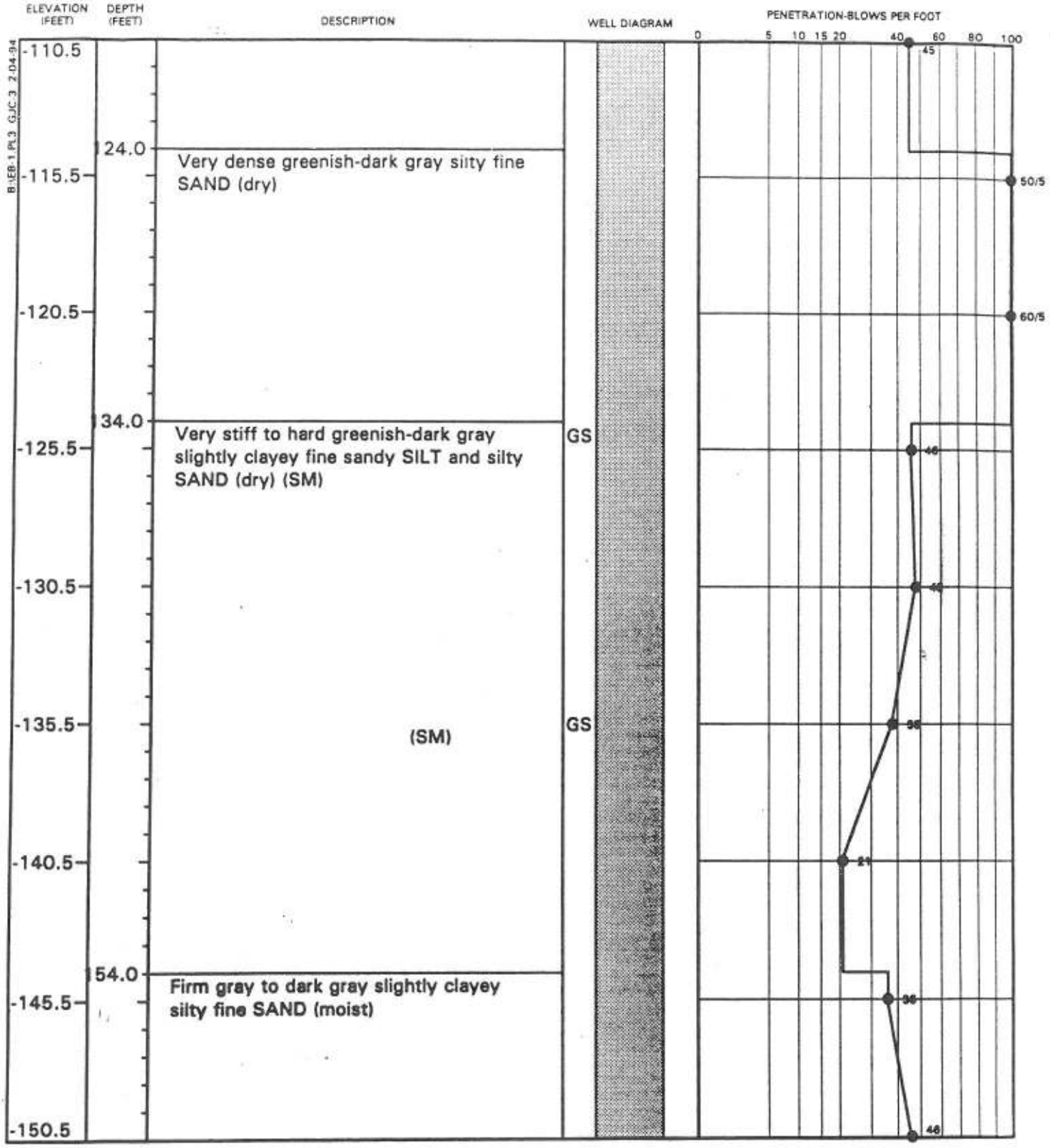


REMARKS:
CL - Unified Soil Classification

DRILLED BY	LAW-ATL	BORING NUMBER	EB-1
LOGGED BY	D.Allen	DATE STARTED	9-14-93
CHECKED BY	K.Davis	DATE COMPLETED	9-17-93
		JOB NUMBER	55-3553

Law Environmental

TEST BORING RECORD

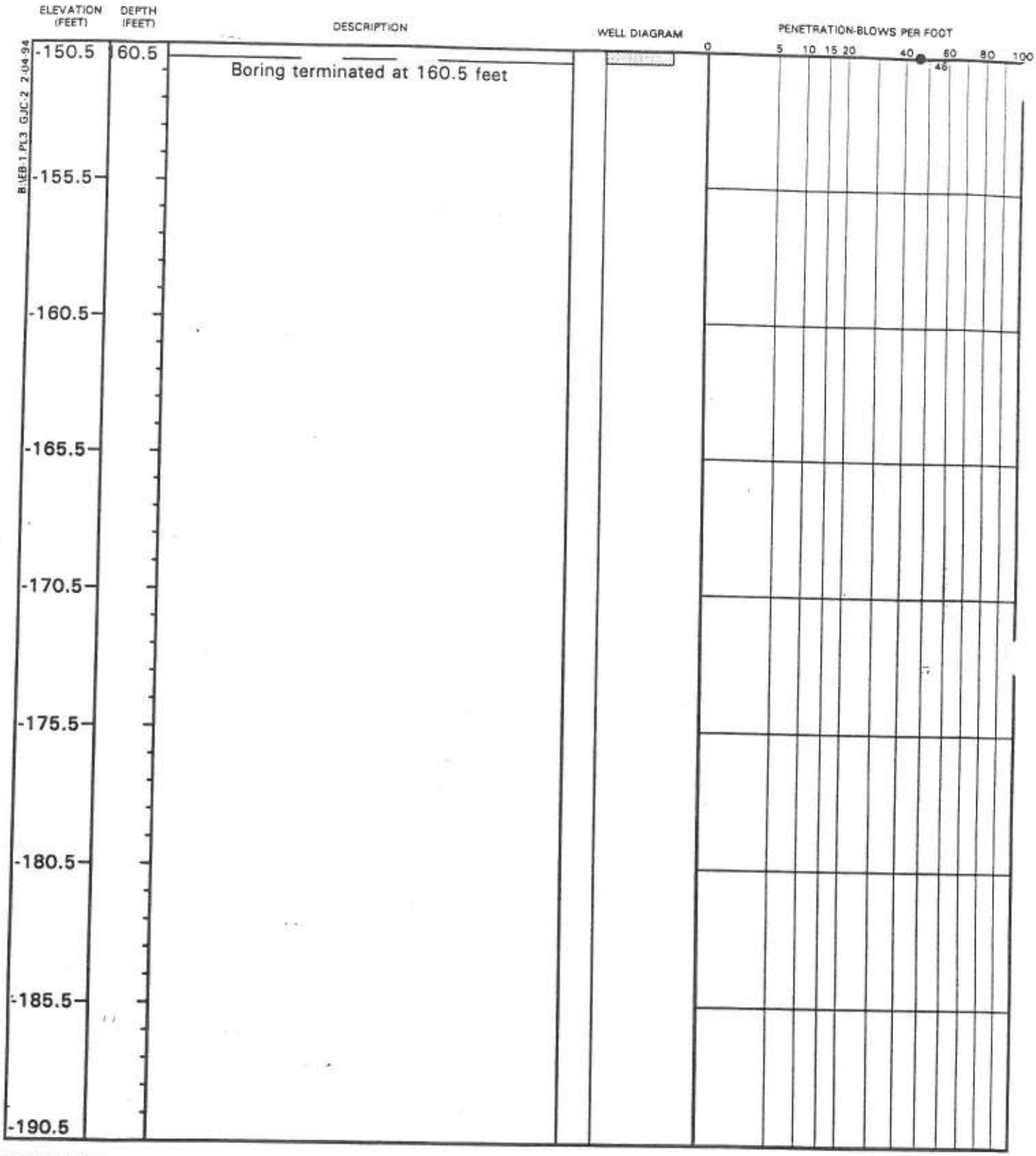


REMARKS:
SM - Unified Soil Classification

DRILLED BY	LAW-ATL	BORING NUMBER	EB-1
LOGGED BY	D.Allen	DATE STARTED	9-14-93
CHECKED BY	K.Davis	DATE COMPLETED	9-17-93
		JOB NUMBER	55-355310

Law Environmental

TEST BORING RECORD



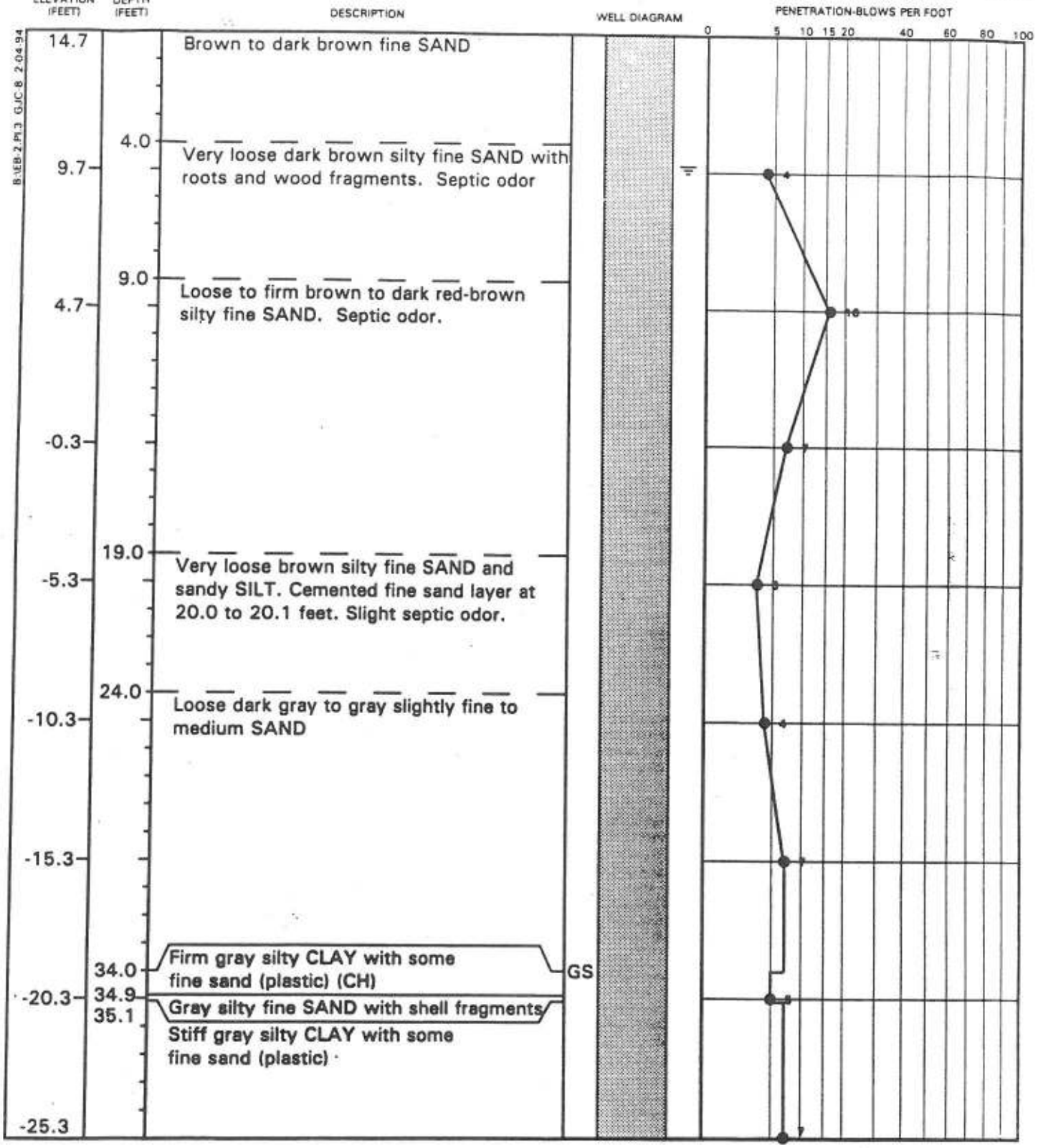
REMARKS:

DRILLED BY	LAW-ATL	BORING NUMBER	EB-1
LOGGED BY	D.Allen	DATE STARTED	9-14-93
CHECKED BY	K.Davis	DATE COMPLETED	9-17-93
		JOB NUMBER	55-3553

Law Environmental

TEST BORING RECORD

DATUM ELEVATION: 14.67 Ft.
HEIGHT OF RISER: 0.00 Ft.



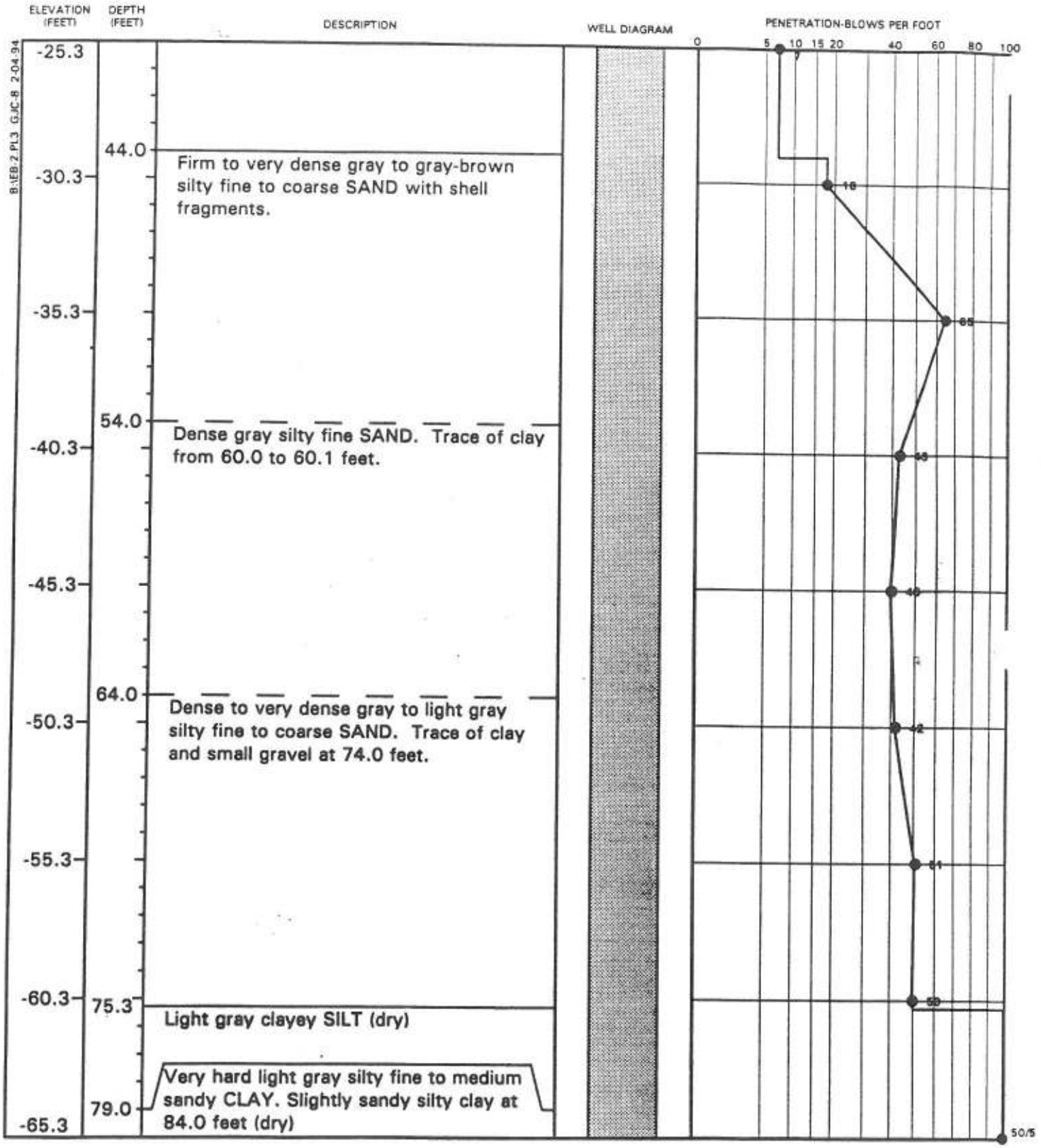
REMARKS:

1) Drilling Technique: Mud rotary utilizing 5 7/8-inch rotary drill bit.
2) Boring grouted with Portland cement bentonite slurry.
3) ⏚ Water level during drilling
4) CH - Unified Soil Classification

DRILLED BY	LAW-ATL	BORING NUMBER	EB-2
LOGGED BY	D.Allen	DATE STARTED	9-17-93
CHECKED BY	K.Davis	DATE COMPLETED	9-18-93
		JOB NUMBER	55-355310

Law Environmental

TEST BORING RECORD

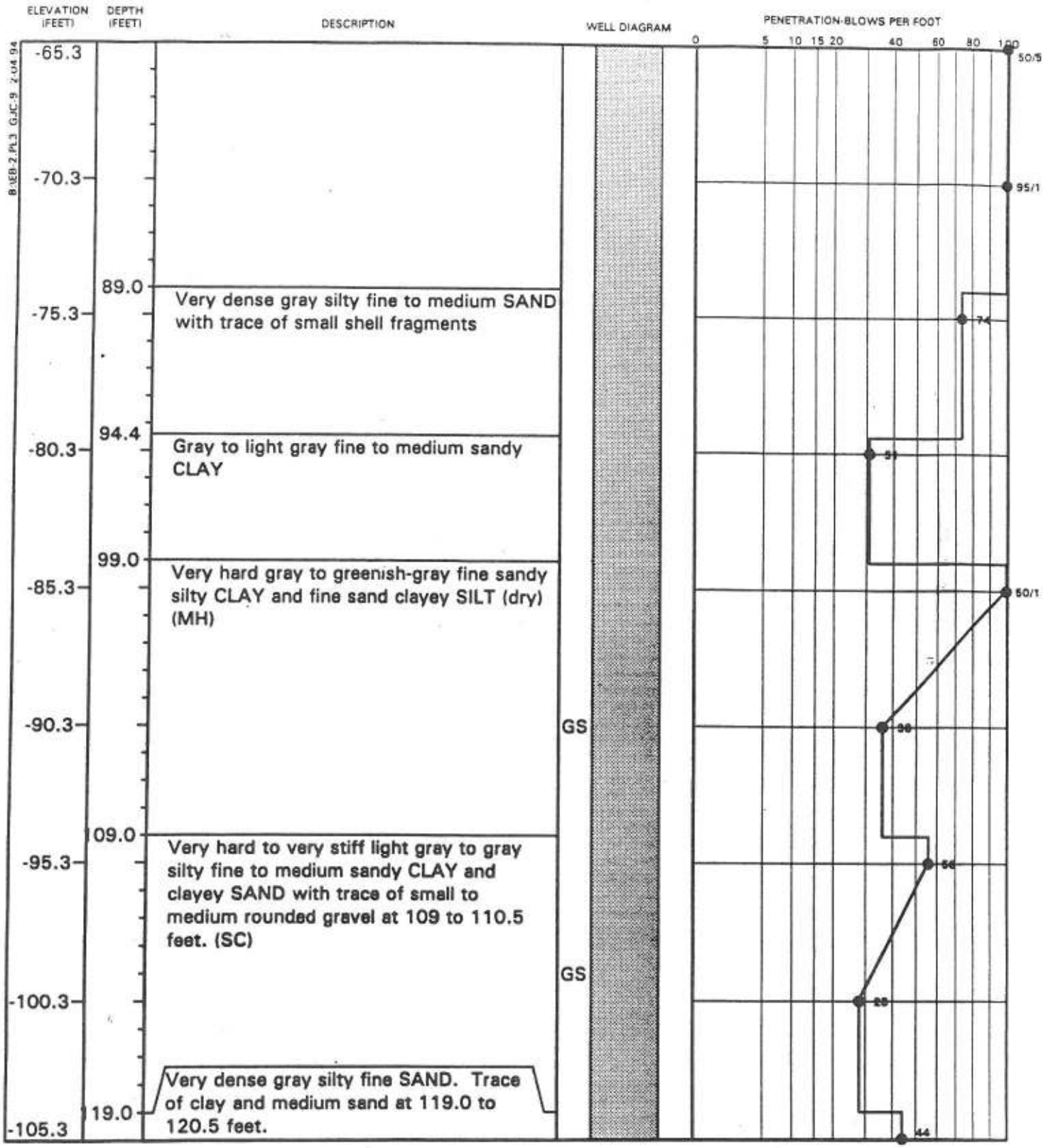


REMARKS:

DRILLED BY	LAW-ATL	BORING NUMBER	EB-2
LOGGED BY	D.Allen	DATE STARTED	9-17-93
CHECKED BY	K.Davis	DATE COMPLETED	9-18-93
		JOB NUMBER	55-355

Law Environmental

TEST BORING RECORD

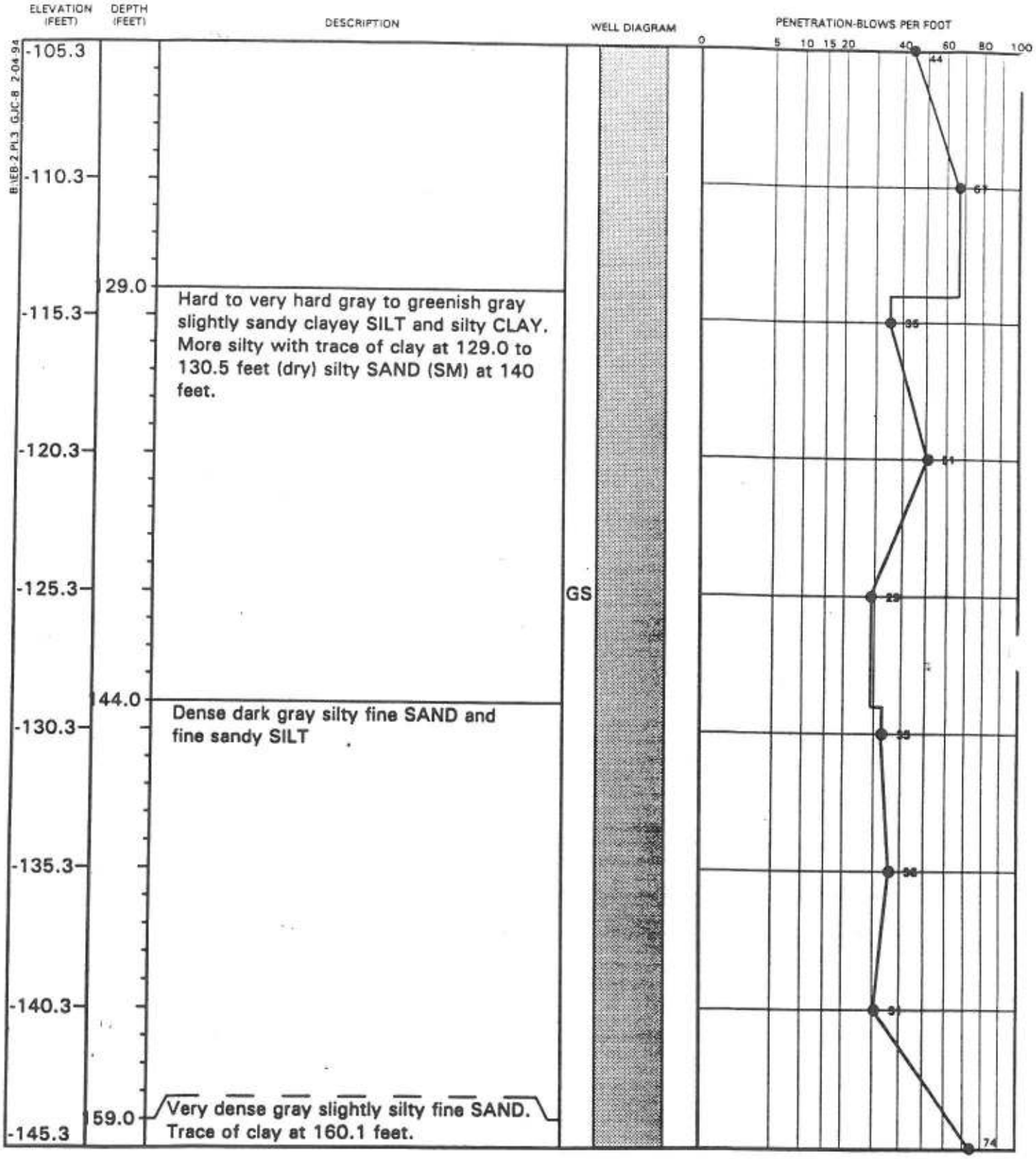


REMARKS:
MH, SC - Unified Soil Classification

DRILLED BY	LAW-ATL	BORING NUMBER	EB-2
LOGGED BY	D.Allen	DATE STARTED	9-17-93
CHECKED BY	K.Davis	DATE COMPLETED	9-18-93
		JOB NUMBER	55-355310

Law Environmental

TEST BORING RECORD

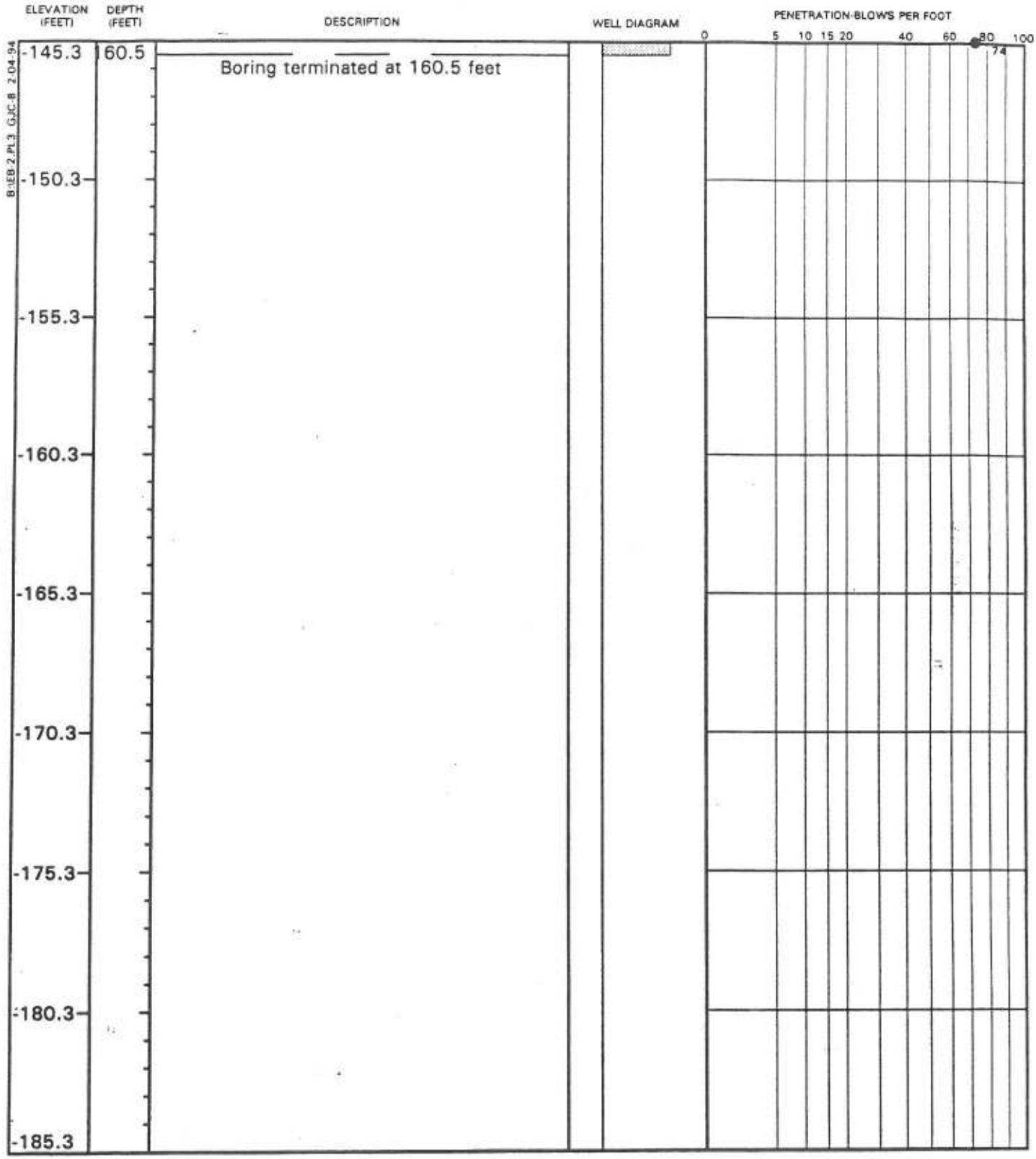


REMARKS:
SM - Unified Soil Classification

DRILLED BY	LAW-ATL	BORING NUMBER	EB-2
LOGGED BY	D.Allen	DATE STARTED	9-17-93
CHECKED BY	K.Davis	DATE COMPLETED	9-18-93
		JOB NUMBER	55-3553

Law Environmental

TEST BORING RECORD



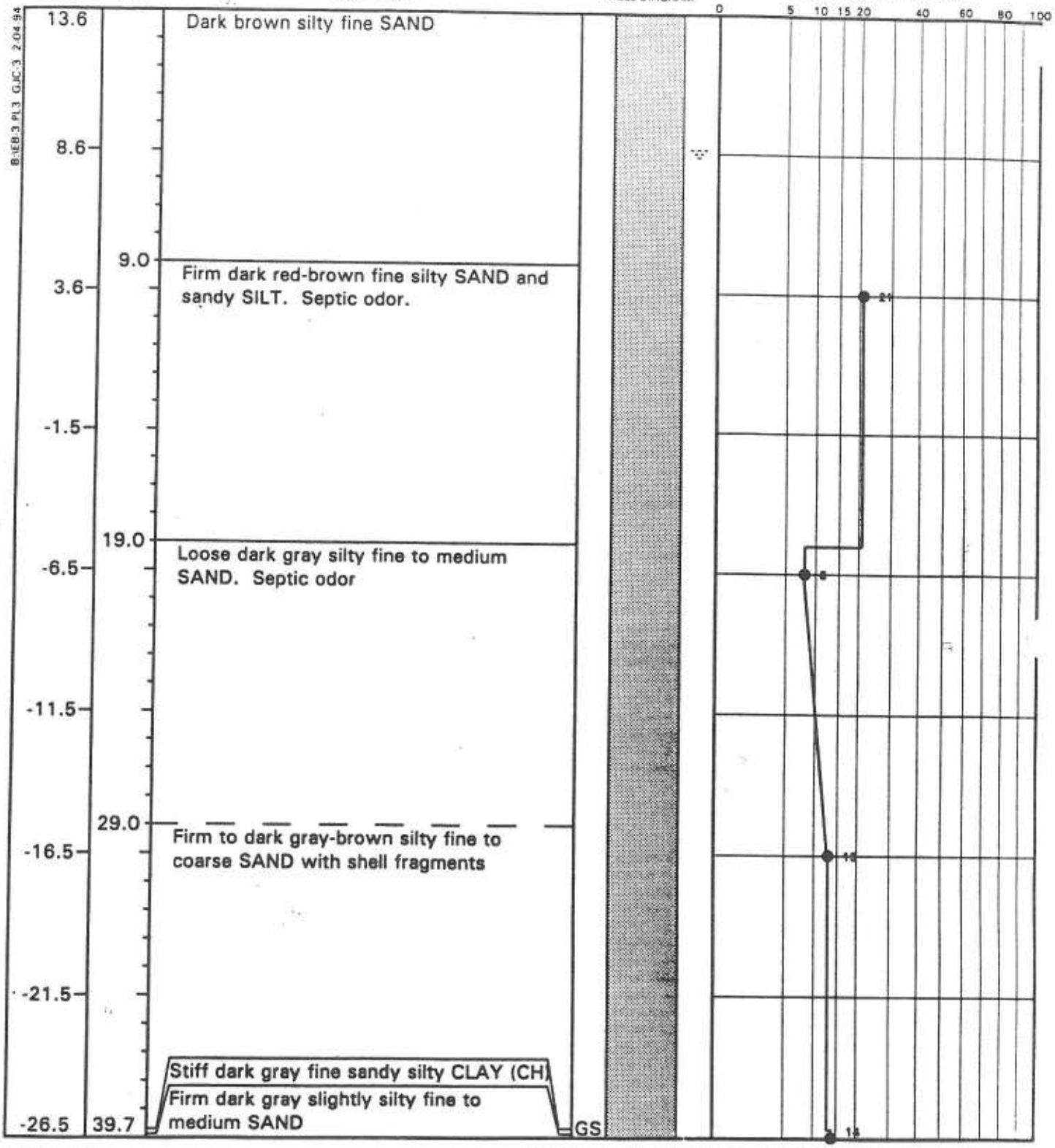
REMARKS:

DRILLED BY	LAW-ATL	BORING NUMBER	EB-2
LOGGED BY	D.Allen	DATE STARTED	9-17-93
CHECKED BY	K.Davis	DATE COMPLETED	9-18-93
		JOB NUMBER	55-355310

Law Environmental

TEST BORING RECORD

DATUM ELEVATION: 13.55 Ft.
HEIGHT OF RISER: 0.00 Ft.



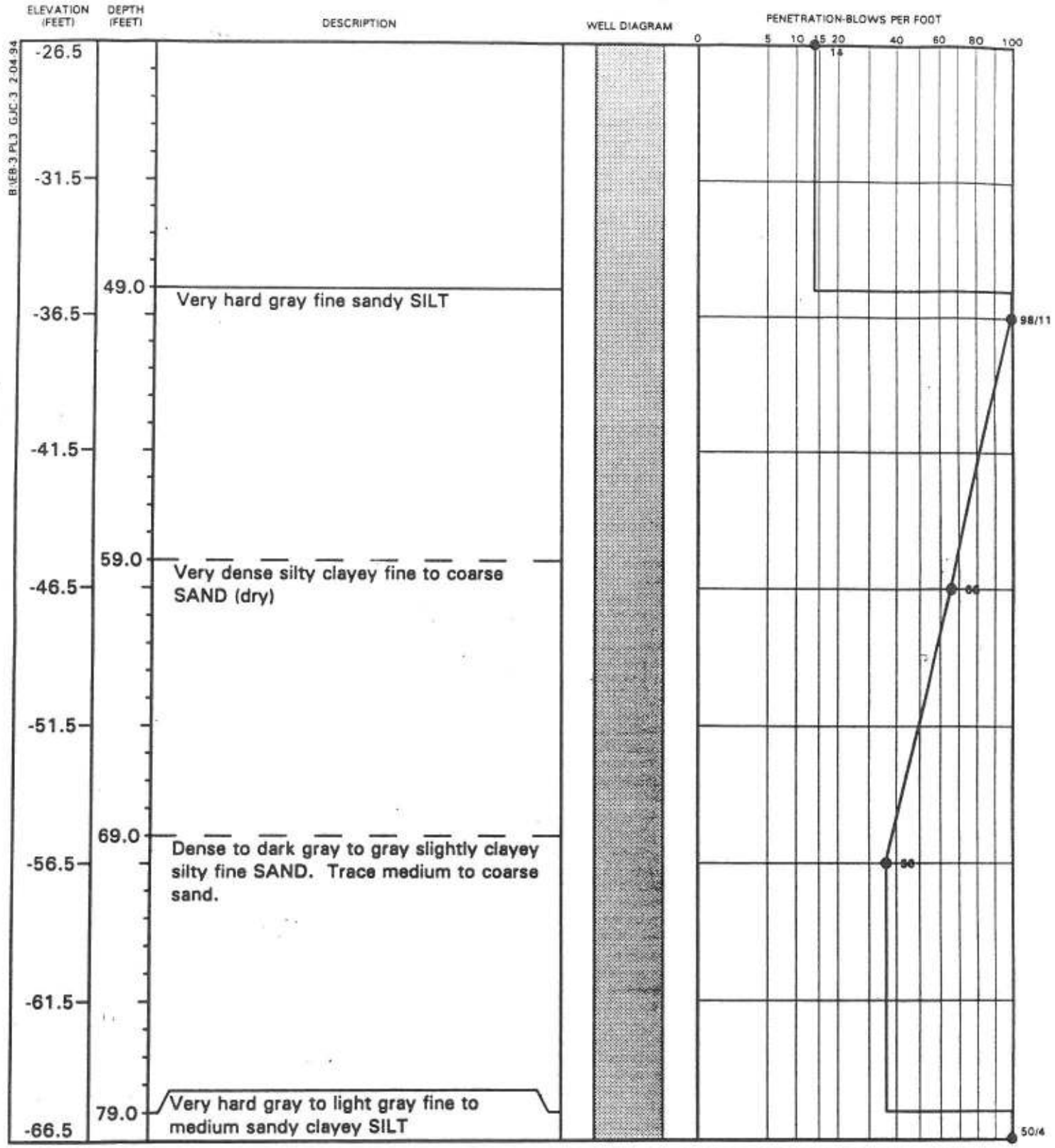
REMARKS:

1) Drilling Technique: Mud rotary utilizing a 5 7/8-inch tricone rotary drill bit.
2) Boring grouted to ground surface with a Portland cement - bentonite slurry.
3) ⁘ Water level during drilling.
4) CH - Unified Soil Classification

DRILLED BY	LAW-ATL	BORING NUMBER	EB-3
LOGGED BY	D.Allen	DATE STARTED	9-19-93
CHECKED BY	K.Davis	DATE COMPLETED	9-20-93
		JOB NUMBER	55-355

Law Environmental

TEST BORING RECORD

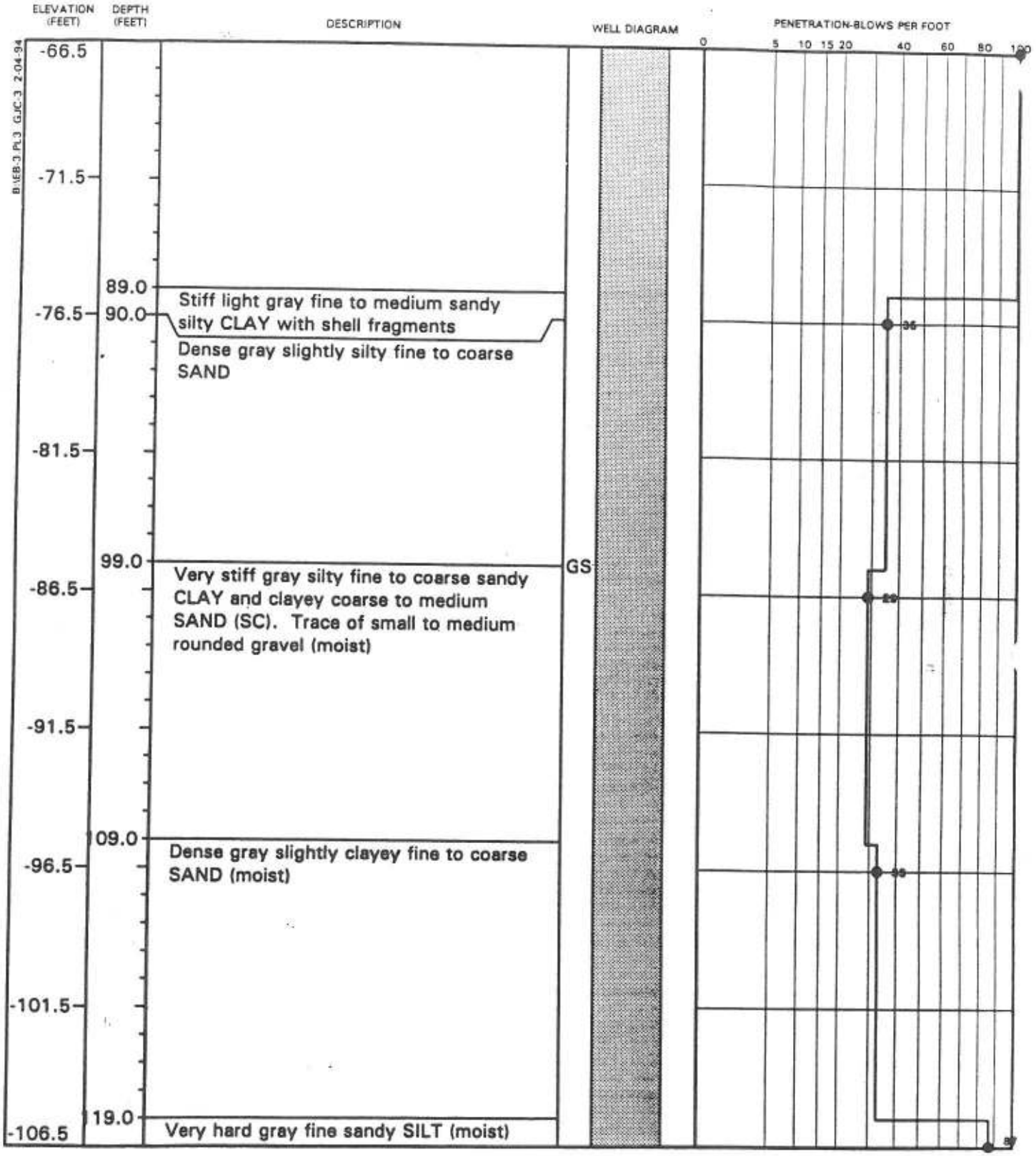


REMARKS:

DRILLED BY	LAW-ATL	BORING NUMBER	EB-3
LOGGED BY	D.Allen	DATE STARTED	9-19-93
CHECKED BY	K.Davis	DATE COMPLETED	9-20-93
		JOB NUMBER	55-355310

Law Environmental

TEST BORING RECORD

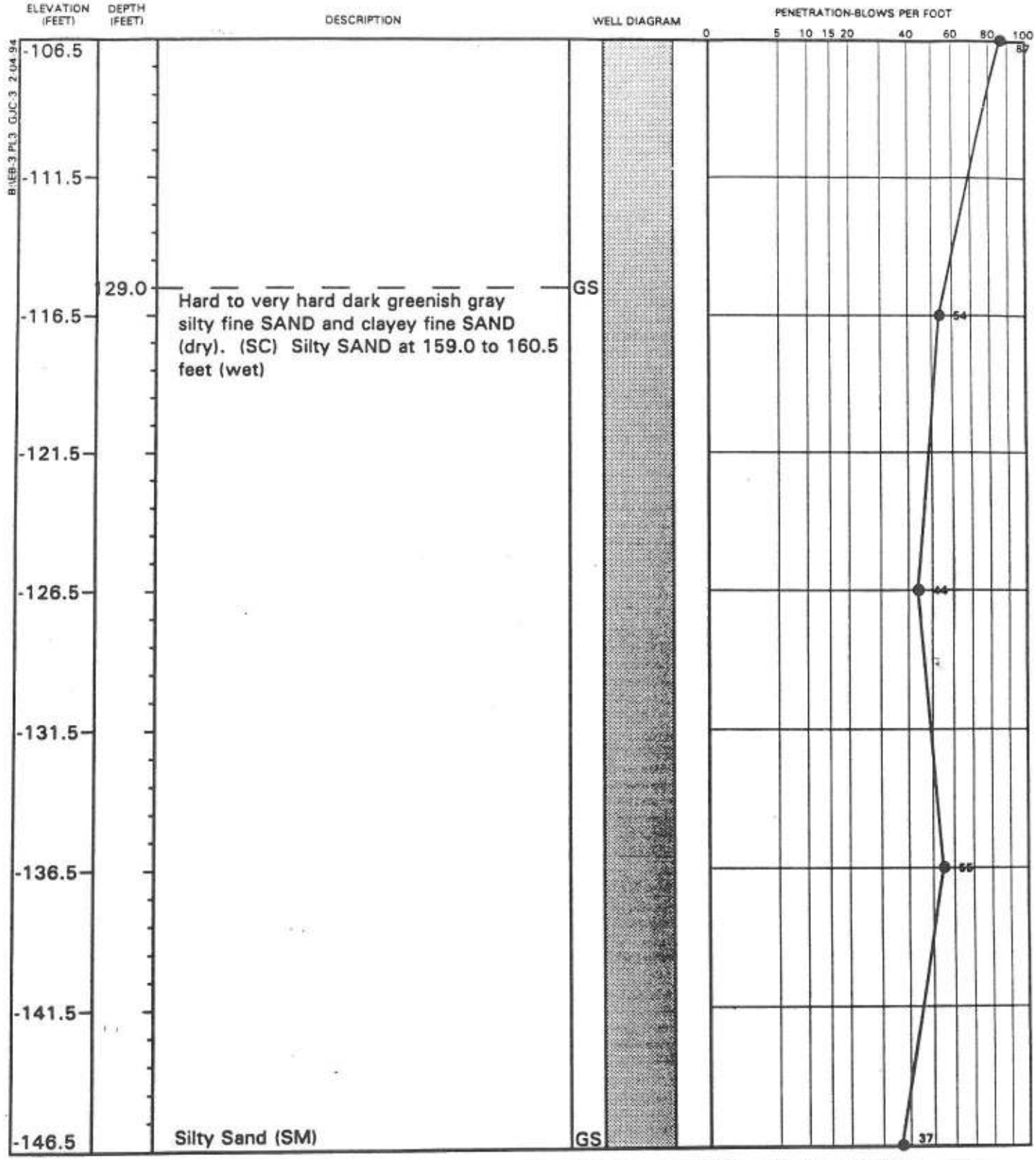


REMARKS:
SC - Unified Soil Classification

DRILLED BY	LAW-ATL	BORING NUMBER	EB-3
LOGGED BY	D.Allen	DATE STARTED	9-19-93
CHECKED BY	K.Davis	DATE COMPLETED	9-20-93
		JOB NUMBER	55-3553

Law Environmental

TEST BORING RECORD

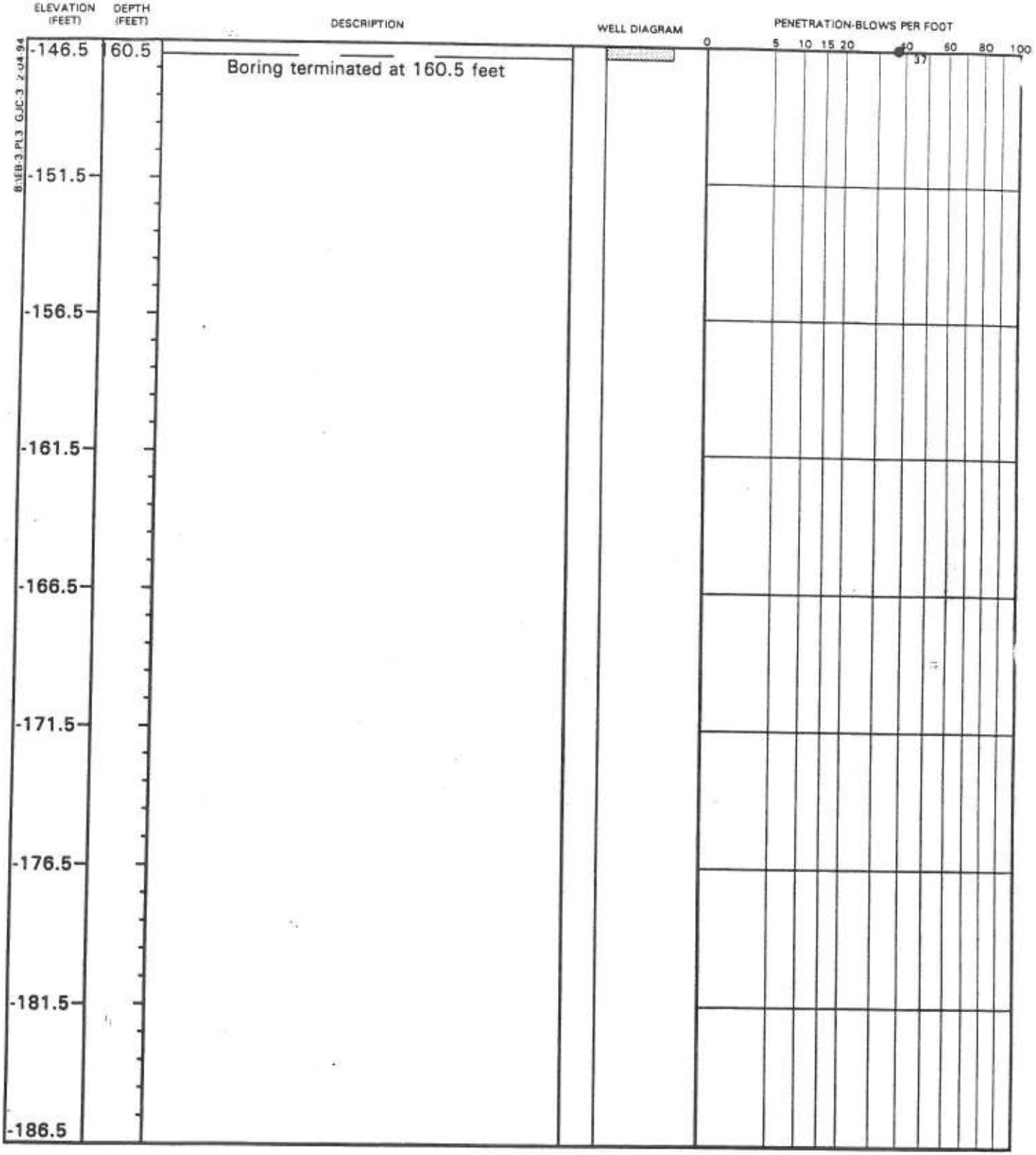


REMARKS:
SC, SM - Unified Soil Classification

DRILLED BY	LAW-ATL	BORING NUMBER	EB-3
LOGGED BY	D.Allen	DATE STARTED	9-19-93
CHECKED BY	K.Davis	DATE COMPLETED	9-20-93
		JOB NUMBER	55-355310

Law Environmental

TEST BORING RECORD



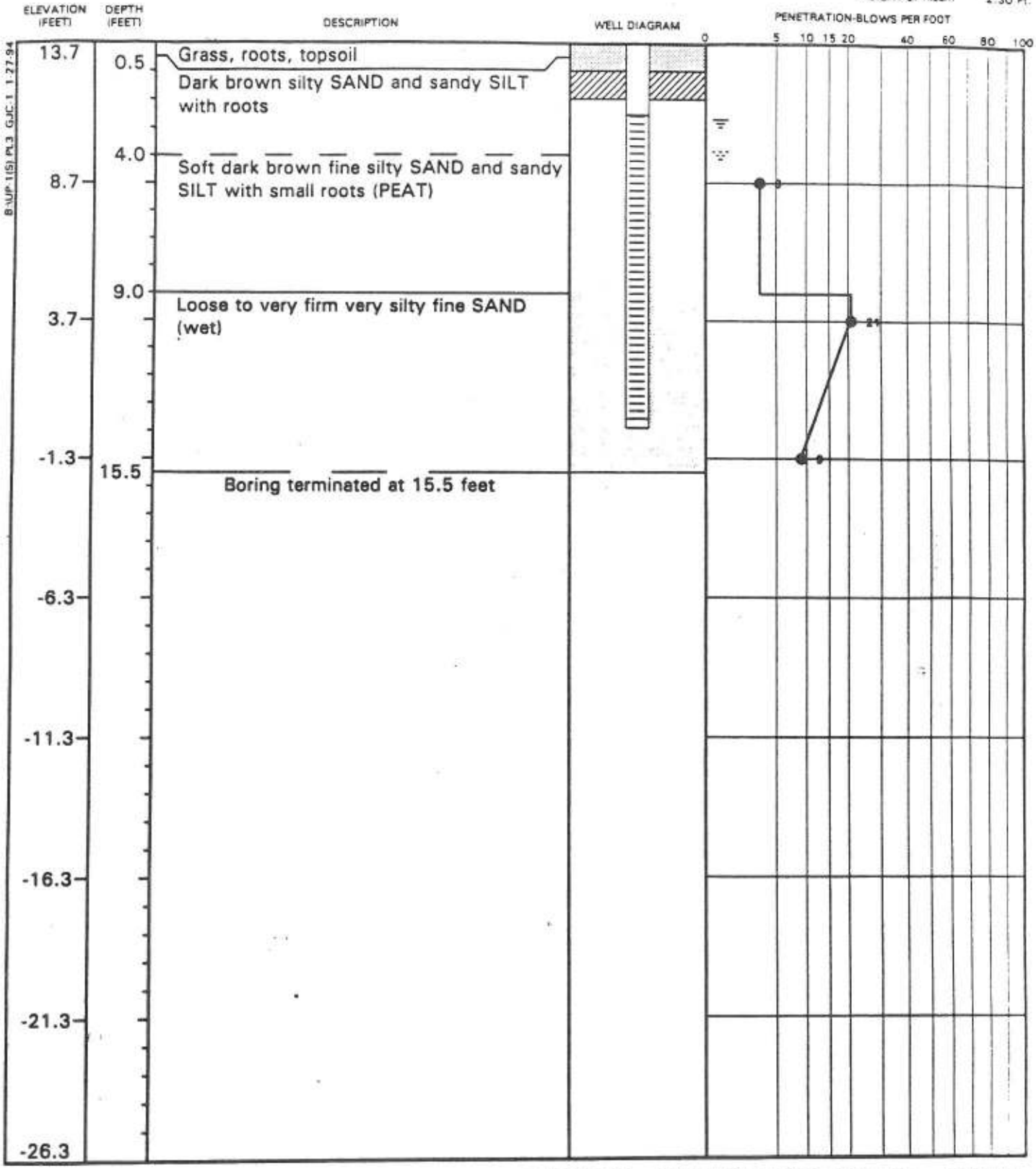
REMARKS:

DRILLED BY	**LAW-ATL**	**BORING NUMBER**	**EB-3**
LOGGED BY	**D.Allen**	**DATE STARTED**	**9-19-93**
CHECKED BY	**K.Davis**	**DATE COMPLETED**	**9-20-93**
		JOB NUMBER	**55-3553**

Law Environmental

TEST BORING RECORD

DATUM ELEVATION: 16.04 Ft.
HEIGHT OF RISER: 2.30 Ft.



REMARKS:

1) Drilling Technique: 0 to 14 feet using 8-inch O.D. hollow stem auger.
2) Well Materials: 2-inch stainless steel 0.010-inch slot screen.
3) ∴ Water level during drilling.
4) ▽ Water level measured on 10-7-93.

DRILLED BY	LAW-ATL	BORING NUMBER	UP-1(S)
LOGGED BY	D.Allen	DATE STARTED	9-28-93
CHECKED BY	K.Davis	DATE COMPLETED	9-29-93
		JOB NUMBER	55-255310

Law Environmental

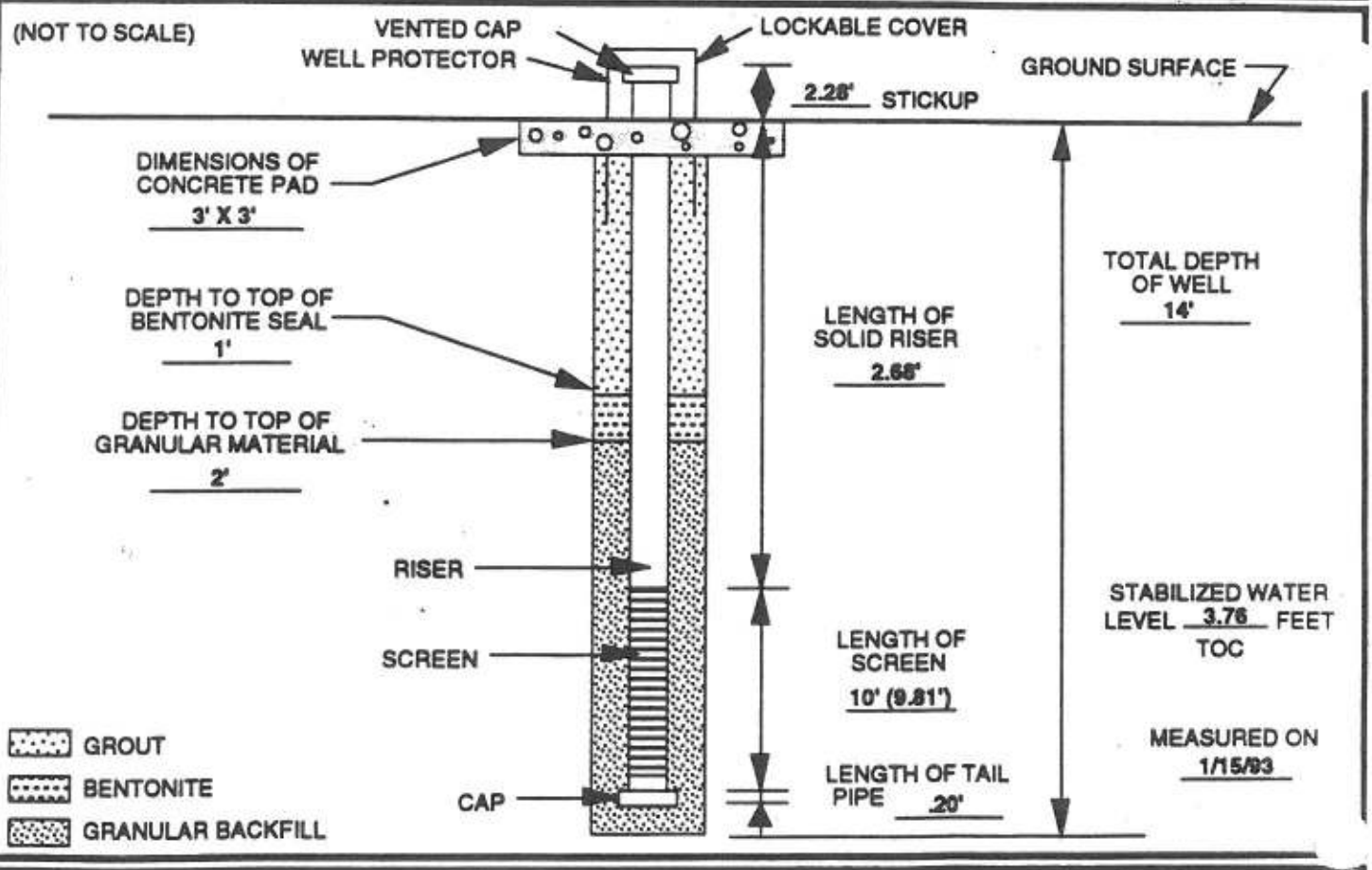
TYPE II MONITORING WELL INSTALLATION DIAGRAM

LAW ENVIRONMENTAL, INC.
KENNESAW, GEORGIA

JOB NAME HERCULES - BRUNSWICK
WELL NO. UP-1 (S) JOB NO. 55-355310
DATE 9/29/93

GROUND SURFACE ELEVATION 14.2 NGVD
TOP OF PAD ELEVATION 14.25 NGVD
TOP OF CASING ELEVATION 16.48 NGVD
TYPE SAND PACK GRANULAR GRADATION 20/30
SCREEN MATERIAL TYPE 304 WIRE WRAP STAINLESS STEEL
MANUFACTURER DRILLERS SERVICE, INC.
RISER MATERIAL TYPE 304 STAINLESS STEEL
MANUFACTURER DRILLERS SERVICE, INC.
RISER DIAMETER 2-INCH
DRILLING TECHNIQUE CONVENTIONAL AUGER
BIT SIZE AND TYPE 8-INCH O.D. HOLLOW STEM

BENTONITE TYPE PURE GOLD® BENTONITE TABLETS
CEMENT TYPE PORTLAND TYPE I
BOREHOLE DIAMETER 8-INCH
SCREEN DIAMETER 2-INCH SLOT SIZE 0.010 INCH
LAW ENVIRONMENTAL, INC. FIELD REPRESENTATIVE DAVID ALLEN
DRILLING CONTRACTOR LAW ENGINEERING - ATLANTA
AMOUNT BENTONITE USED 0.16 FT³
AMOUNT CEMENT USED 0.16 FT³
AMOUNT SAND USED 1.9 FT³
STATIC WATER DEPTH (after dev.) 5.2 FT

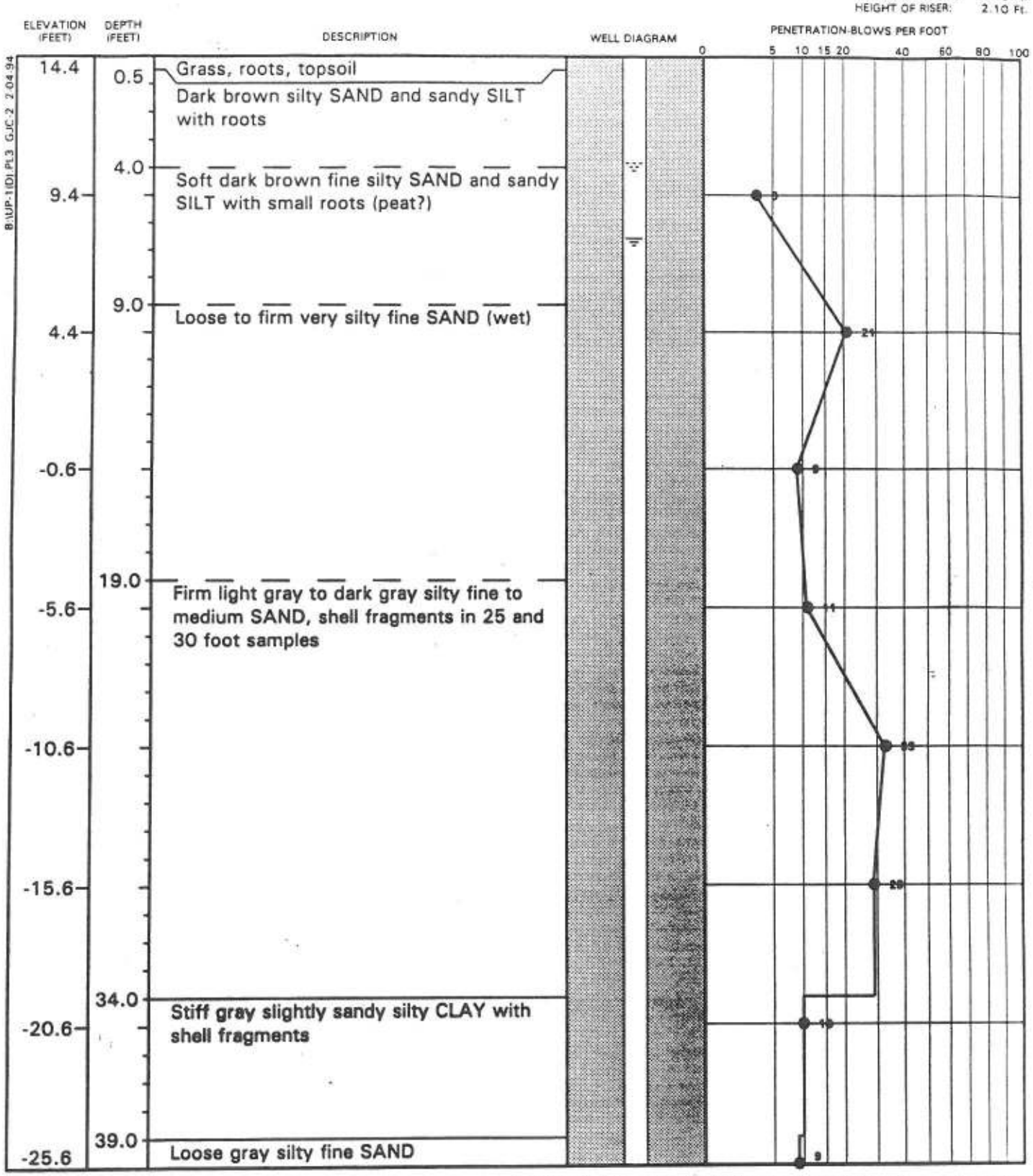


INSTALLED BY: DAVID ALLEN CHECKED BY: GREG MONNETT DATE: 1/26/94

55-3553-10 01

TEST BORING RECORD

DATUM ELEVATION: 16.48 Ft.
HEIGHT OF RISER: 2.10 Ft.



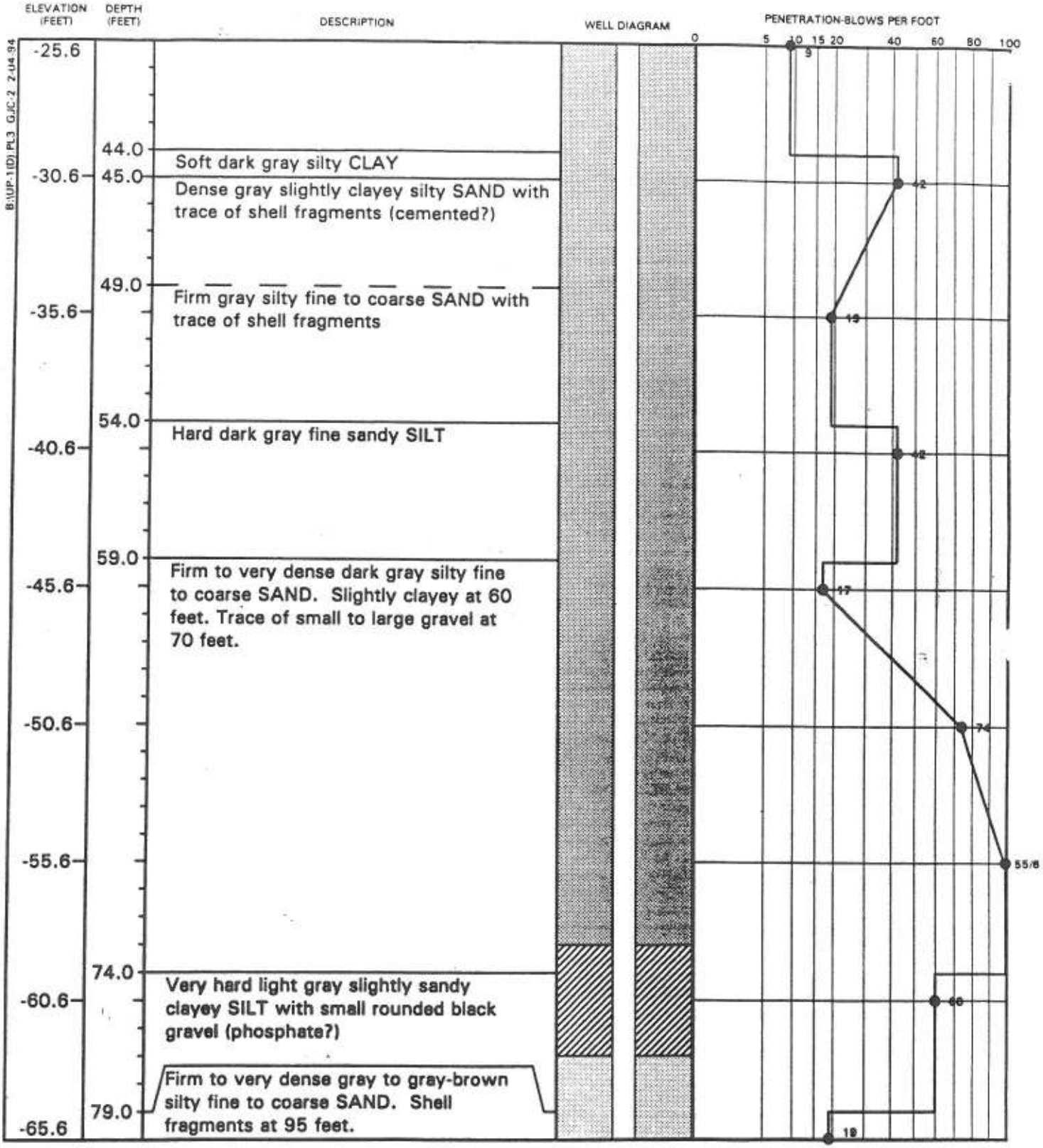
REMARKS:

1) Drilling Technique: 0-95 feet using 5 7/8-inch tricone roller bit.
2) Well Materials: 2-inch stainless steel 0.010-inch slot screen.
3) ▽ Water level during drilling.
4) ▼ Water level on 10-7-93.
5) Soil descriptions: 0-15 feet from UP-1(S).

DRILLED BY	LAW-ATL	BORING NUMBER	UP-1(D)
LOGGED BY	D.Allen	DATE STARTED	9-29-93
CHECKED BY	K.Davis	DATE COMPLETED	9-30-93
		JOB NUMBER	55-35531

Law Environmental

TEST BORING RECORD

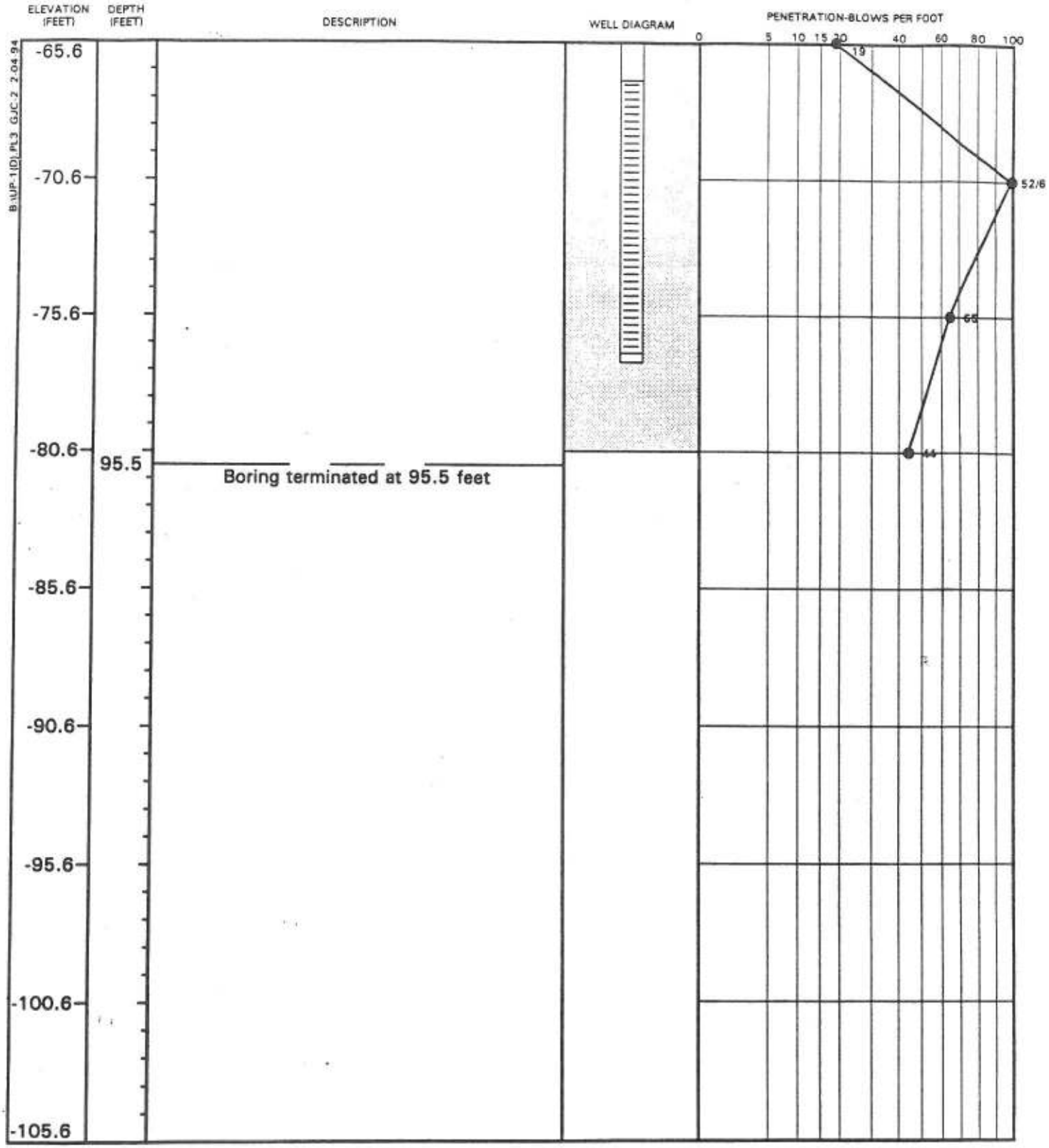


REMARKS:

DRILLED BY	LAW-ATL	BORING NUMBER	UP-1(D)
LOGGED BY	D.Allen	DATE STARTED	9-29-93
CHECKED BY	K.Davis	DATE COMPLETED	9-30-93
		JOB NUMBER	55-3553

Law Environmental

TEST BORING RECORD



REMARKS:

DRILLED BY	LAW-ATL	BORING NUMBER	UP-1(D)
LOGGED BY	D.Allen	DATE STARTED	9-29-93
CHECKED BY	K.Davis	DATE COMPLETED	9-30-93
		JOB NUMBER	55-355310

Law Environmental

TYPE II MONITORING WELL INSTALLATION DIAGRAM

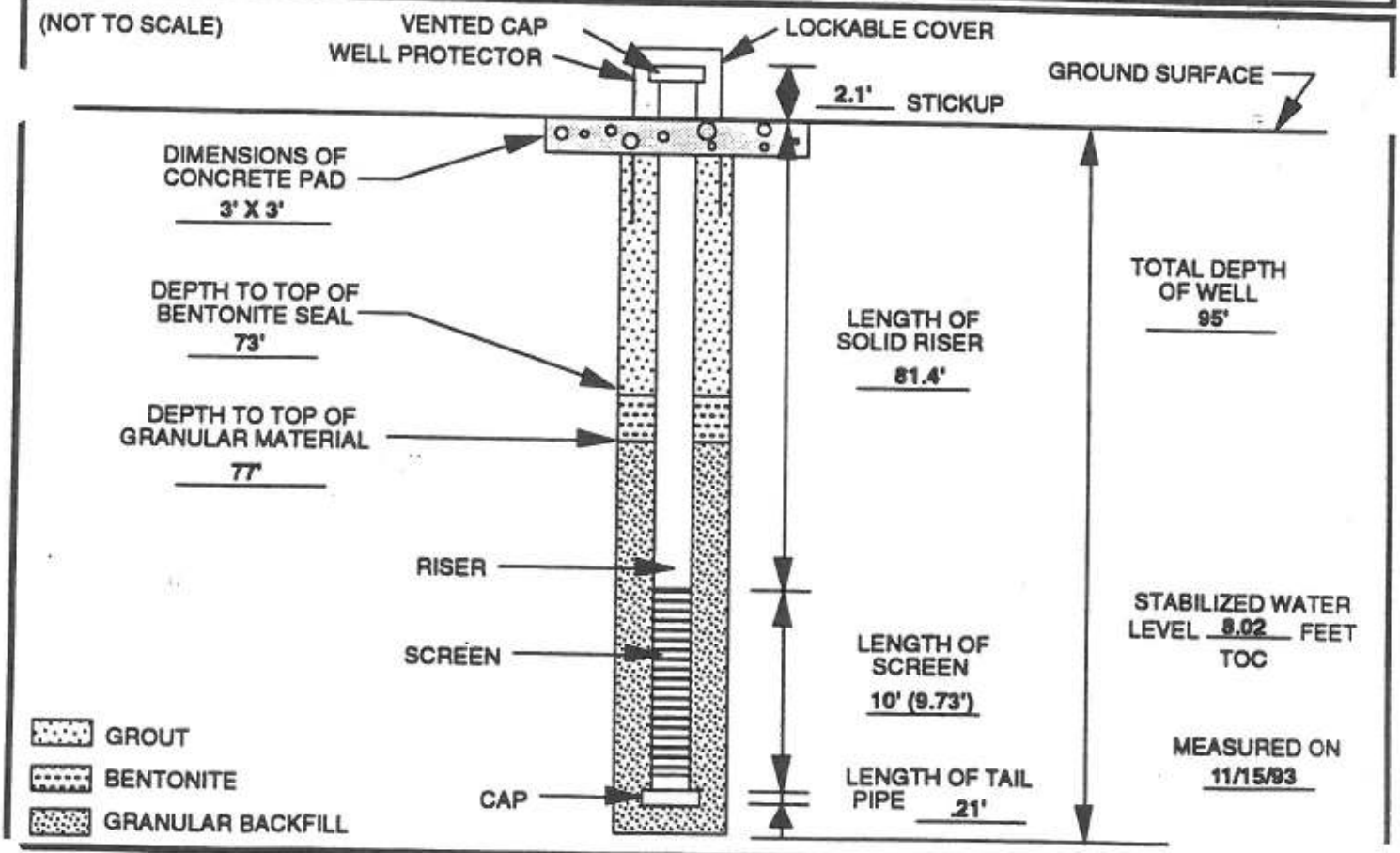
LAW ENVIRONMENTAL, INC.
KENNESAW, GEORGIA

JOB NAME HERCULES - BRUNSWICK
WELL NO. UP-1 (D) JOB NO. 55-355310
DATE 9/30/93

GROUND SURFACE ELEVATION 13.9 NGVD
TOP OF PAD ELEVATION 13.99 NGVD
TOP OF CASING ELEVATION 16.04 NGVD
TYPE SAND PACK GRANULAR GRADATION 20/30
SCREEN MATERIAL TYPE 304 WIRE WRAP STAINLESS STEEL
MANUFACTURER DRILLERS SERVICE, INC.
RISER MATERIAL TYPE 304 STAINLESS STEEL
MANUFACTURER DRILLERS SERVICE, INC.
RISER DIAMETER 2-INCH
DRILLING TECHNIQUE (below casing) WASH ROTARY
BIT SIZE AND TYPE 8-INCH O.D. HOLLOW STEM

BENTONITE TYPE PURE GOLD® BENTONITE TABLETS
CEMENT TYPE PORTLAND TYPE I
BOREHOLE DIAMETER 5 7/8-INCH
SCREEN DIAMETER 2-INCH SLOT SIZE 0.010 INCH
LAW ENVIRONMENTAL, INC. FIELD REPRESENTATIVE DAVID ALLEN
DRILLING CONTRACTOR LAW ENGINEERING - ATLANTA
AMOUNT BENTONITE USED 0.6 FT³
AMOUNT CEMENT USED 12.1 FT³
AMOUNT SAND USED 2.4 FT³
STATIC WATER DEPTH (after dev.) 8.8 FT

(NOT TO SCALE)

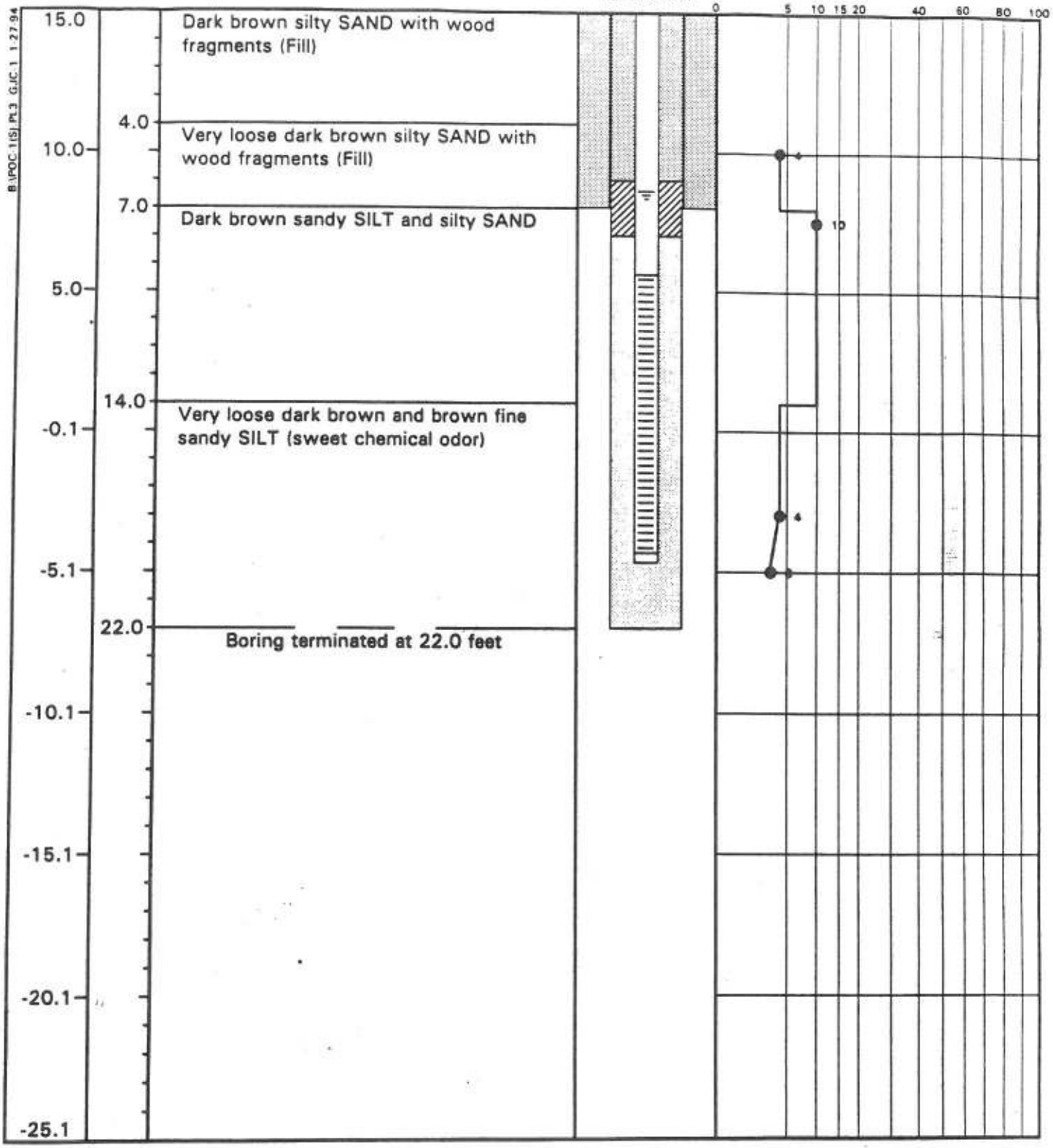


INSTALLED BY: DAVID ALLEN CHECKED BY: GREG MONNETT DATE: 1/26/94

55-3553-10 01

TEST BORING RECORD

DATUM ELEVATION: 17.05 Ft.
HEIGHT OF RISER: 2.10 Ft.



REMARKS:

1) Drilling Technique: 0-7 feet using 8-inch O.D. hollow stem augers. 7 to 22 feet using 5 7/8-inch tricone roller bit.
2) Well materials: 2-inch stainless steel 0.010-inch slot screen.
3) ⏚ Water level on 10-7-93.
4) Soil descriptions 0-22 feet from POC-1(D)

DRILLED BY	LAW-ATL	BORING NUMBER	POC-1(S)
LOGGED BY	D.Allen	DATE STARTED	9-30-93
CHECKED BY	K.Davis	DATE COMPLETED	10-02-93
		JOB NUMBER	55-355310

Law Environmental

TYPE III MONITORING WELL INSTALLATION DIAGRAM

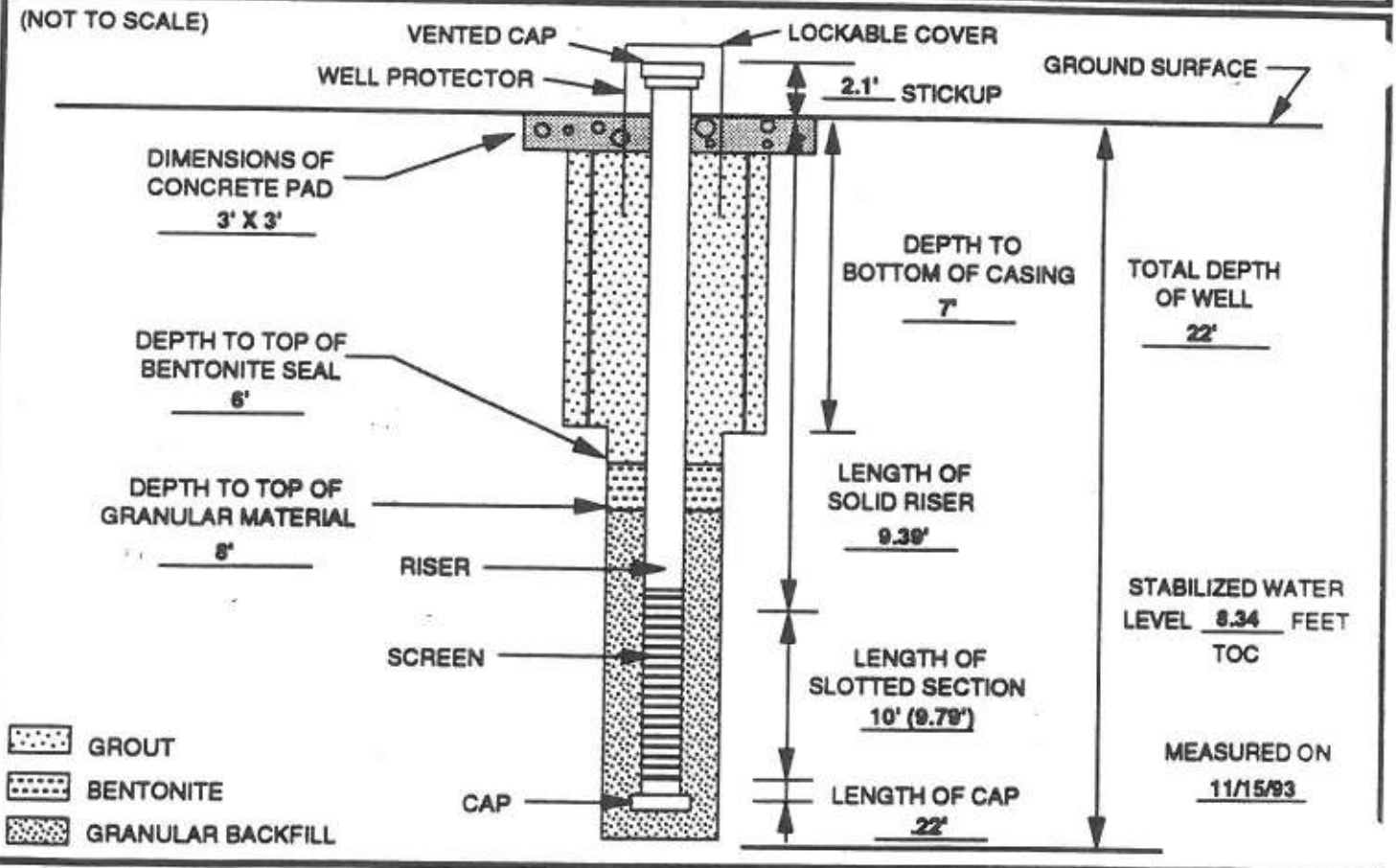
LAW ENVIRONMENTAL, INC.
KENNESAW, GEORGIA

JOB NAME HERCULES - BRUNSWICK
WELL NO. POC-1 (S) JOB NO. 55-355310
DATE 10/2/93

GROUND SURFACE ELEVATION 15.0 NGVD
TOP OF PAD ELEVATION 15.11 NGVD
TOP OF CASING ELEVATION 17.04 NGVD
TYPE SAND PACK GRANULAR GRADATION 20/30
SCREEN MATERIAL TYPE 304 WIRE WRAP STAINLESS STEEL
MANUFACTURER DRILLERS SERVICE, INC.
RISER MATERIAL TYPE 304 STAINLESS STEEL
MANUFACTURER DRILLERS SERVICE, INC.
RISER DIAMETER 2-INCH
DRILLING TECHNIQUE (above casing) CONVENTIONAL AUGER
BIT SIZE AND TYPE 8-INCH O.D. HOLLOW STEM
DRILLING TECHNIQUE (below casing) WASH ROTARY
BIT SIZE AND TYPE 5 7/8 INCH TRI-CONE ROLLER BIT

BENTONITE TYPE PURE GOLD® BENTONITE TABLETS
CEMENT TYPE PORTLAND TYPE I
BOREHOLE DIAMETER 5 7/8 INCH
SCREEN DIAMETER 2-INCH SLOT SIZE 0.010 INCH
LAW ENVIRONMENTAL, INC. FIELD REPRESENTATIVE DAVID ALLEN
DRILLING CONTRACTOR LAW ENGINEERING - ATLANTA
AMOUNT BENTONITE USED 0.33 FT³
AMOUNT CEMENT USED 0.99 FT³
AMOUNT SAND USED 1.9 FT³
STATIC WATER DEPTH (after dev.) 8.62 FT
TYPE OF CASING 6" SCHEDULE 40 PVC

(NOT TO SCALE)

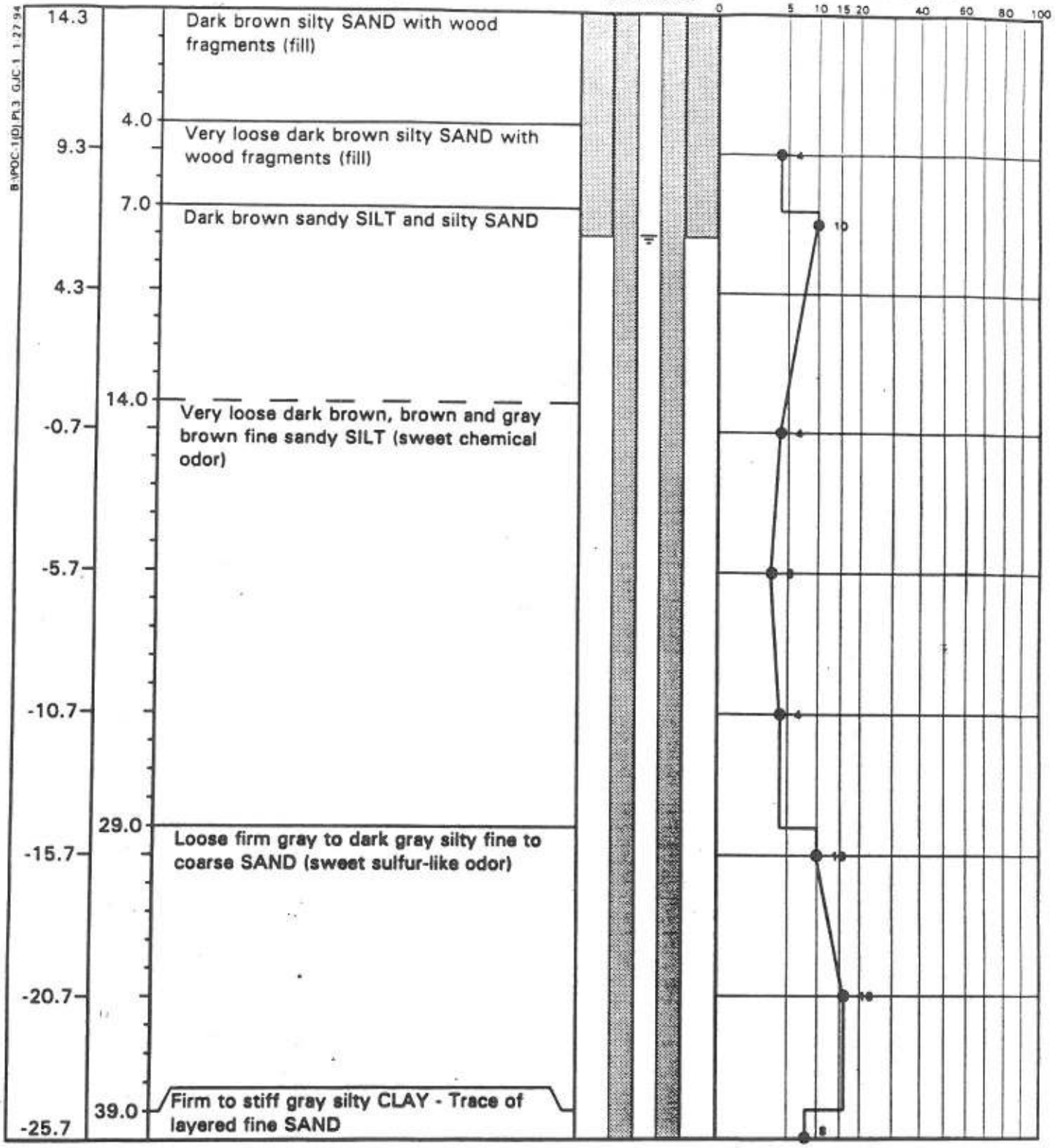


INSTALLED BY: DAVID ALLEN CHECKED BY: GREG MONNETT DATE: 1-26-94

55-3553-10

TEST BORING RECORD

DATUM ELEVATION: 16.08 Ft.
HEIGHT OF RISER: 1.80 Ft.



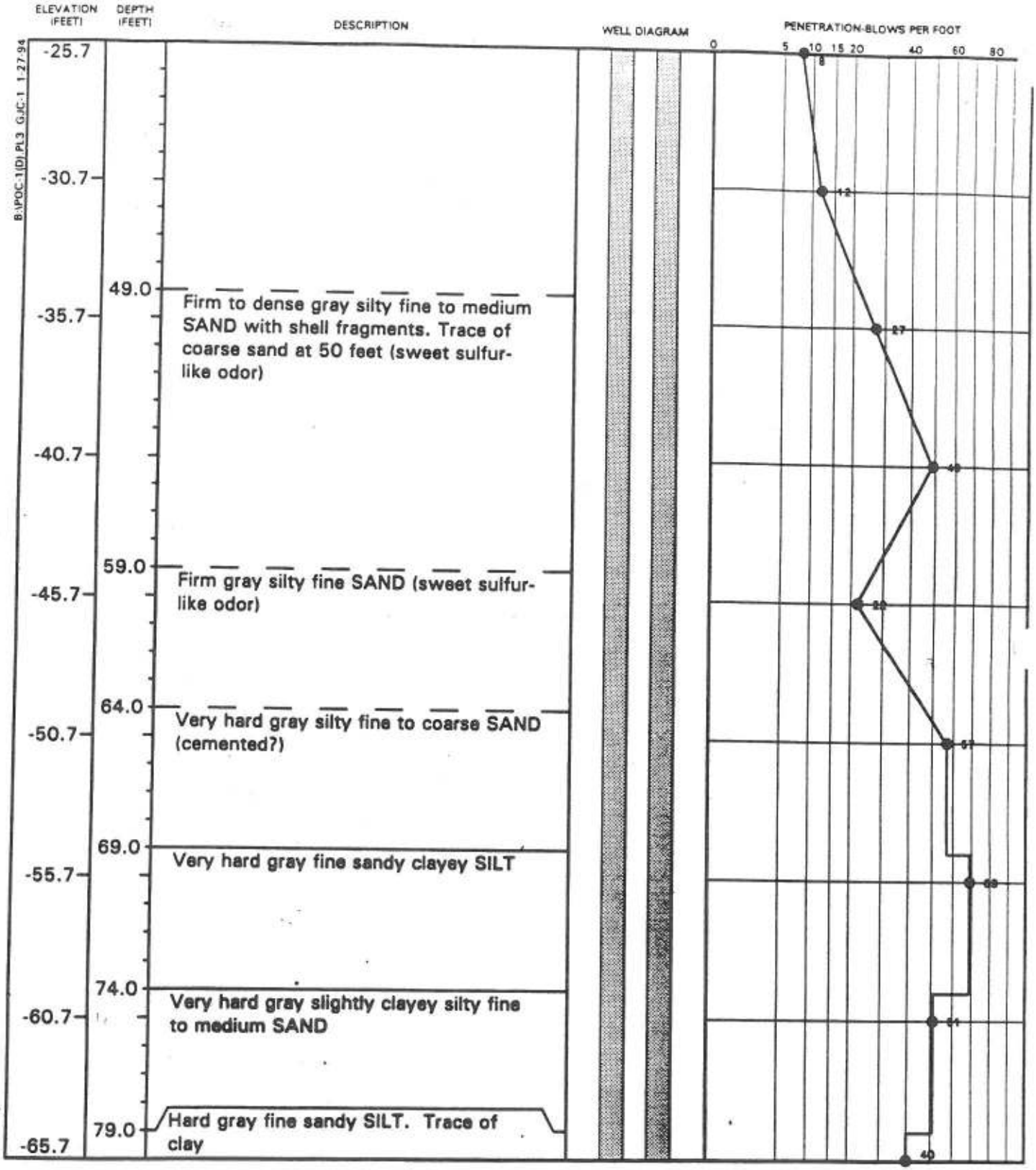
REMARKS:

1) Drilling Technique: 0-8 feet using 8-inch hollow stem augers. 8-107 feet using 5 7/8-inch tricone roller bit.
2) Well Materials: 2-inch stainless steel 0.010-inch slot screen.
3. ⏚ Water level on 10-7-93.

DRILLED BY	LAW-ATL	BORING NUMBER	POC-1(D)
LOGGED BY	D.Allen	DATE STARTED	9-30-93
CHECKED BY	K.Davis	DATE COMPLETED	10-1-93
		JOB NUMBER	55-355310

Law Environmental

TEST BORING RECORD

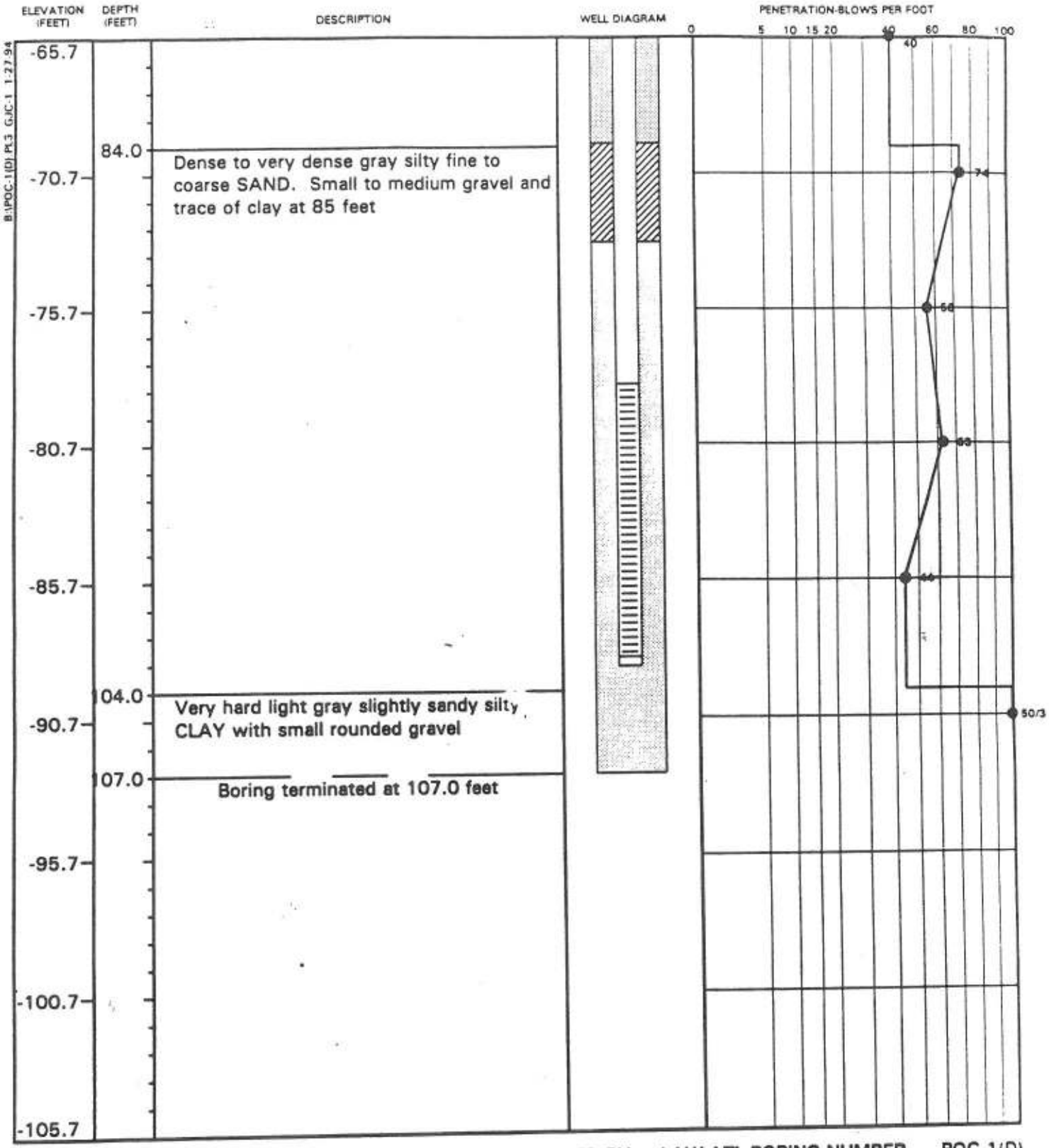


REMARKS:

DRILLED BY	LAW-ATL	BORING NUMBER	POC-1(D)
LOGGED BY	D.Allen	DATE STARTED	9-30-93
CHECKED BY	K.Davis	DATE COMPLETED	10-1-93
		JOB NUMBER	55-3553.10

Law Environmental

TEST BORING RECORD



REMARKS:

DRILLED BY	LAW-ATL	BORING NUMBER	POC-1(D)
LOGGED BY	D.Allen	DATE STARTED	9-30-93
CHECKED BY	K.Davis	DATE COMPLETED	10-1-93
		JOB NUMBER	55-355310

Law Environmental

TYPE III MONITORING WELL INSTALLATION DIAGRAM

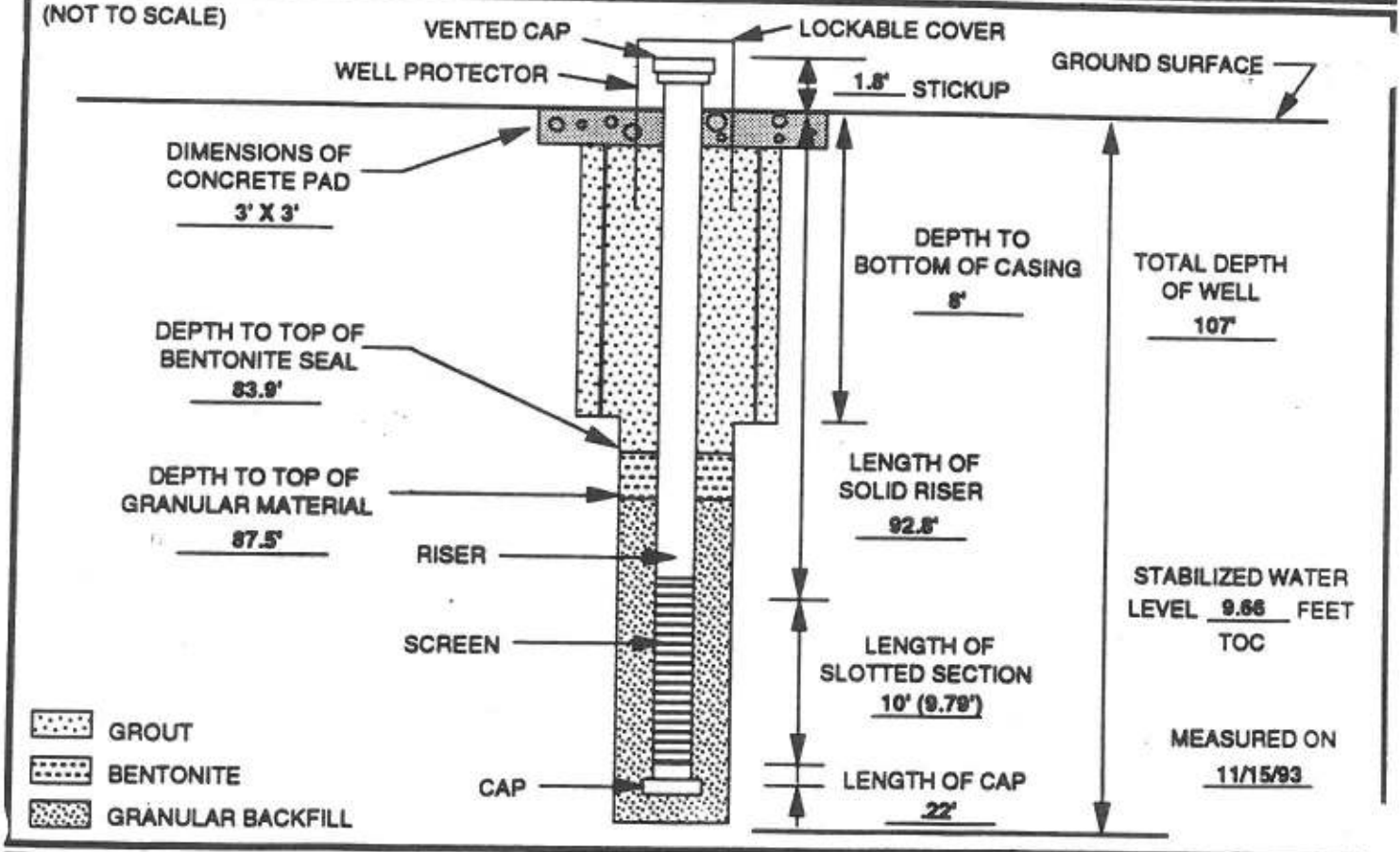
LAW ENVIRONMENTAL, INC.
KENNESAW, GEORGIA

JOB NAME HERCULES - BRUNSWICK
WELL NO. POC-1 (D) JOB NO. 55-355310
DATE 10/4/93

GROUND SURFACE ELEVATION 14.4 NGVD
TOP OF PAD ELEVATION 14.59 NGVD
TOP OF CASING ELEVATION 16.08 NGVD
TYPE SAND PACK GRANULAR GRADATION 20/30
SCREEN MATERIAL TYPE 304 WIRE WRAP STAINLESS STEEL
MANUFACTURER DRILLERS SERVICE, INC.
RISER MATERIAL TYPE 304 STAINLESS STEEL
MANUFACTURER DRILLERS SERVICE, INC.
RISER DIAMETER 2-INCH
DRILLING TECHNIQUE (above casing) CONVENTIONAL AUGER
BIT SIZE AND TYPE 8-INCH O.D. CONTINUOUS FLIGHT
DRILLING TECHNIQUE (below casing) WASH ROTARY
BIT SIZE AND TYPE 5 7/8 INCH TRI-CONE ROLLER BIT

BENTONITE TYPE PURE GOLD® BENTONITE TABLETS
CEMENT TYPE PORTLAND TYPE I
BOREHOLE DIAMETER 8-INCH
SCREEN DIAMETER 2-INCH SLOT SIZE 0.010 INCH
LAW ENVIRONMENTAL, INC. FIELD REPRESENTATIVE DAVID ALLEN
DRILLING CONTRACTOR LAW ENGINEERING - ATLANTA
AMOUNT BENTONITE USED 0.6 FT³
AMOUNT CEMENT USED 14 FT³
AMOUNT SAND USED 2.6 FT³
STATIC WATER DEPTH (after dev.) 9.88 FT
TYPE OF CASING 6" SCHEDULE 40 PVC

(NOT TO SCALE)

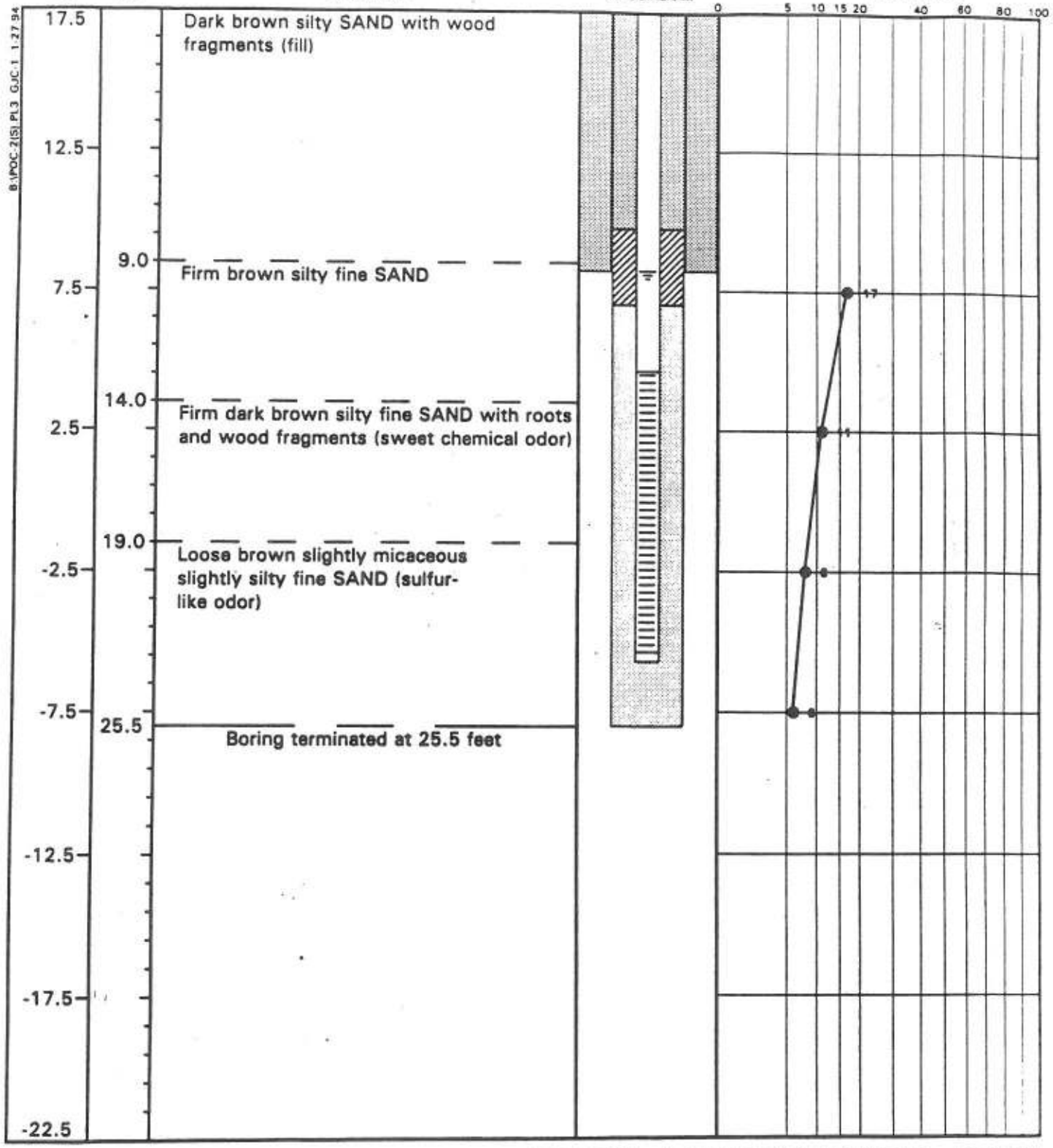


INSTALLED BY: DAVID ALLEN CHECKED BY: GREG MONNETT DATE: 1-26-94

55-3553-10 01

TEST BORING RECORD

DATUM ELEVATION: 19.48 Ft.
HEIGHT OF RISER: 2.00 Ft.



REMARKS:

1) Drilling Technique: 0-9 feet using 8-inch O.D. hollow stem augers. 9-25 feet using 5 7/8-inch tricone roller bit.
2) Well Materials: 2-inch stainless steel 0.010-inch slot screen.
3) ⏚ Water level on 10-25-93.
4) Soil descriptions 10-25 from EB-1

DRILLED BY	LAAW-AT	BORING NUMBER	POC-2(S)
LOGGED BY	D.Allen	DATE STARTED	10-1-93
CHECKED BY	K.Davis	DATE COMPLETED	10-3-93
		JOB NUMBER	55-3553[illegible]0

Law Environmental

TYPE III MONITORING WELL INSTALLATION DIAGRAM

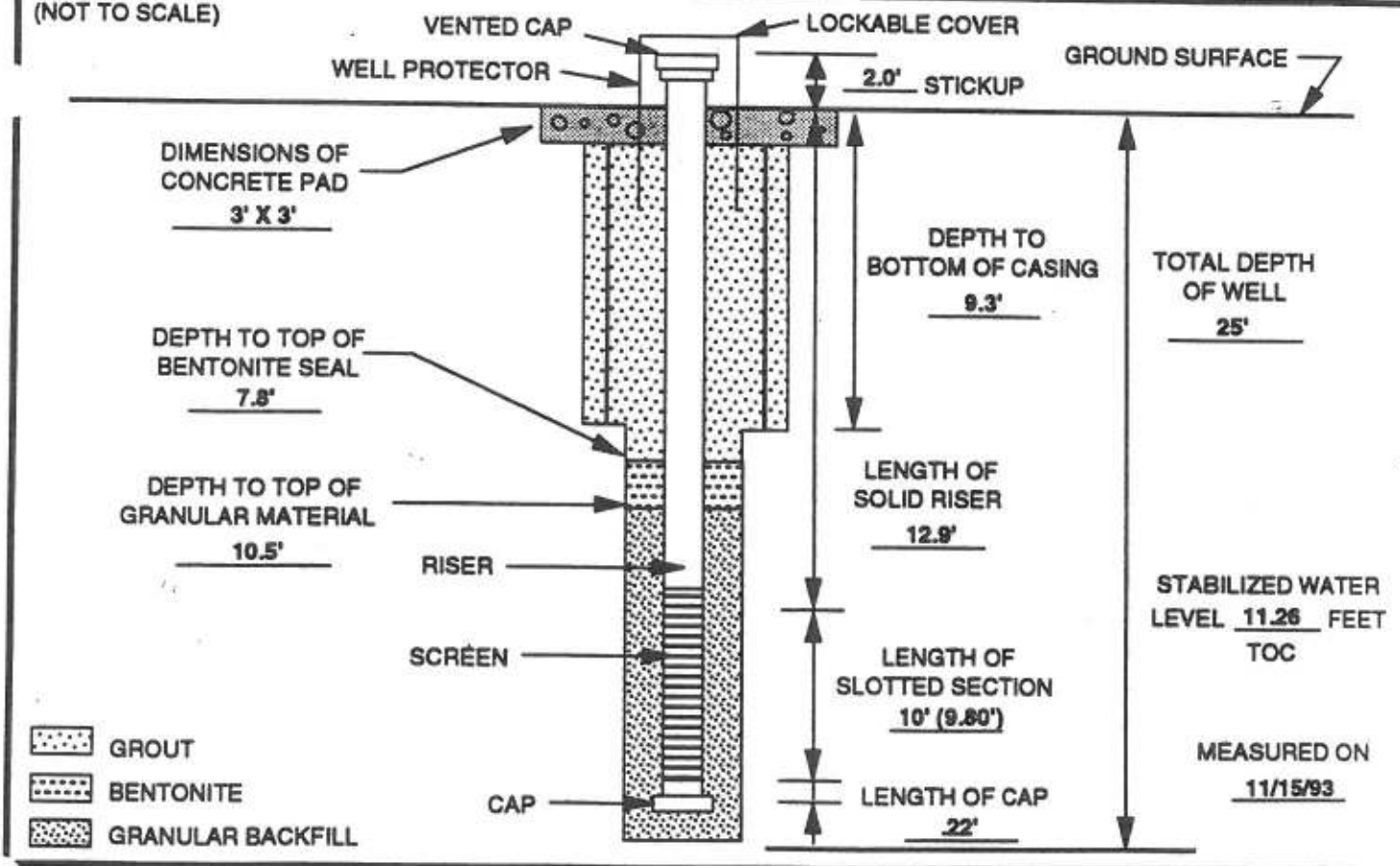
LAW ENVIRONMENTAL, INC.
KENNESAW, GEORGIA

JOB NAME HERCULES - BRUNSWICK
WELL NO. POC-2 (S) JOB NO. 55-355310
DATE 10/2/93

GROUND SURFACE ELEVATION 17.9 NGVD
TOP OF PAD ELEVATION 17.96 NGVD
TOP OF CASING ELEVATION 19.48 NGVD
TYPE SAND PACK GRANULAR GRADATION 20/30
SCREEN MATERIAL TYPE 304 WIRE WRAP STAINLESS STEEL
MANUFACTURER DRILLERS SERVICE, INC.
RISER MATERIAL TYPE 304 STAINLESS STEEL
MANUFACTURER DRILLERS SERVICE, INC.
RISER DIAMETER 2-INCH
DRILLING TECHNIQUE (above casing) CONVENTIONAL AUGER
BIT SIZE AND TYPE 8-INCH O.D. HOLLOW STEM
DRILLING TECHNIQUE (below casing) WASH ROTARY
BIT SIZE AND TYPE 5 7/8 INCH TRI-CONE ROLLER BIT

BENTONITE TYPE PURE GOLD® BENTONITE TABLETS
CEMENT TYPE PORTLAND TYPE I
BOREHOLE DIAMETER 5 7/8 INCH
SCREEN DIAMETER 2-INCH SLOT SIZE 0.010 INCH
LAW ENVIRONMENTAL, INC.
FIELD REPRESENTATIVE DAVID ALLEN
DRILLING CONTRACTOR LAW ENGINEERING - ATLANTA
AMOUNT BENTONITE USED .44 FT^3
AMOUNT CEMENT USED 1.2 FT^3
AMOUNT SAND USED 2.1 FT^3
STATIC WATER DEPTH (after dev.) 11.43 FT
TYPE OF CASING 6" SCHEDULE 40 PVC

(NOT TO SCALE)

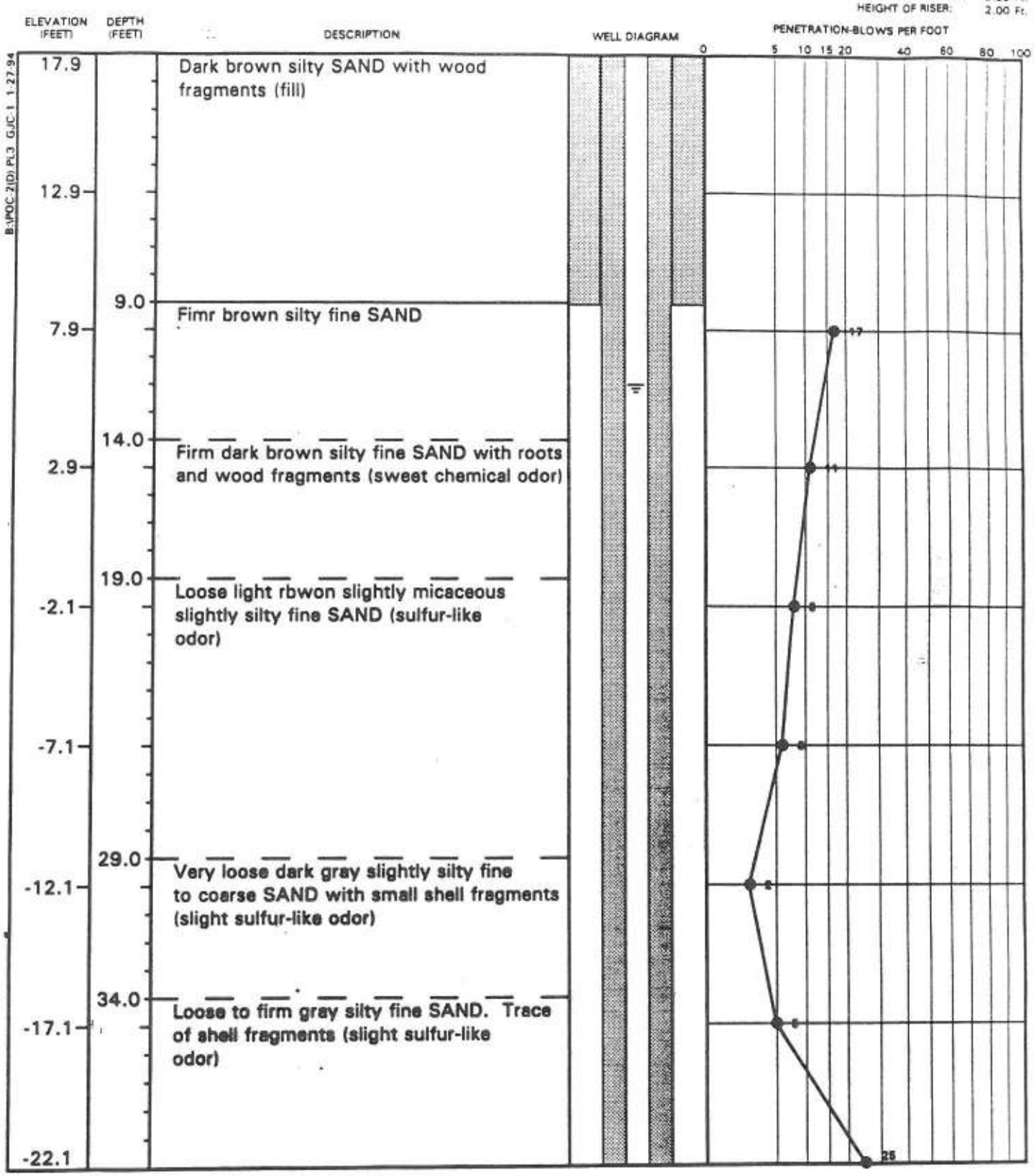


INSTALLED BY: DAVID ALLEN CHECKED BY: GREG MONNETT DATE: 1-26-94

55-3553-10.01

TEST BORING RECORD

DATUM ELEVATION: 19.89 Ft.
HEIGHT OF RISER: 2.00 Ft.



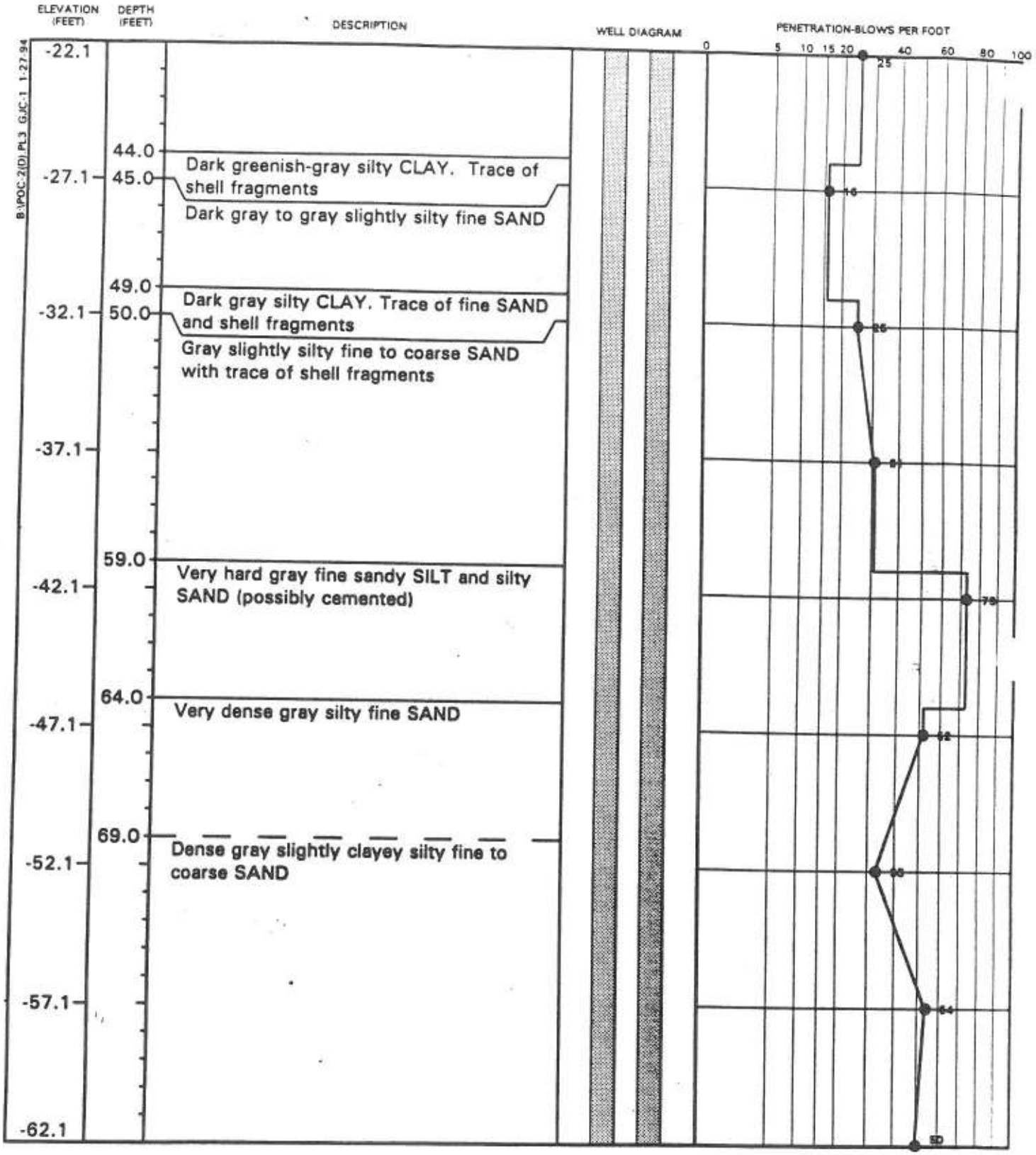
REMARKS:

1) Drilling Technique: 0-9 feet using 8-inch O.D. hollow stem augers. 9-107 feet using 5 7/8-inch tricone roller bit.
2) Well Materials: 2-inch stainless steel 0.010-inch slot screen
3) ⌯ Water level on 10-7-93.
4) Soil descriptions from 10-100 from EB-1PAGE 1 OF 3

DRILLED BY	LAW-ATL	BORING NUMBER	POC-2(D)
LOGGED BY	D.Allen	DATE STARTED	10-1-93
CHECKED BY	K.Davis	DATE COMPLETED	10-2-93
		JOB NUMBER	55-355310

Law Environmental

TEST BORING RECORD

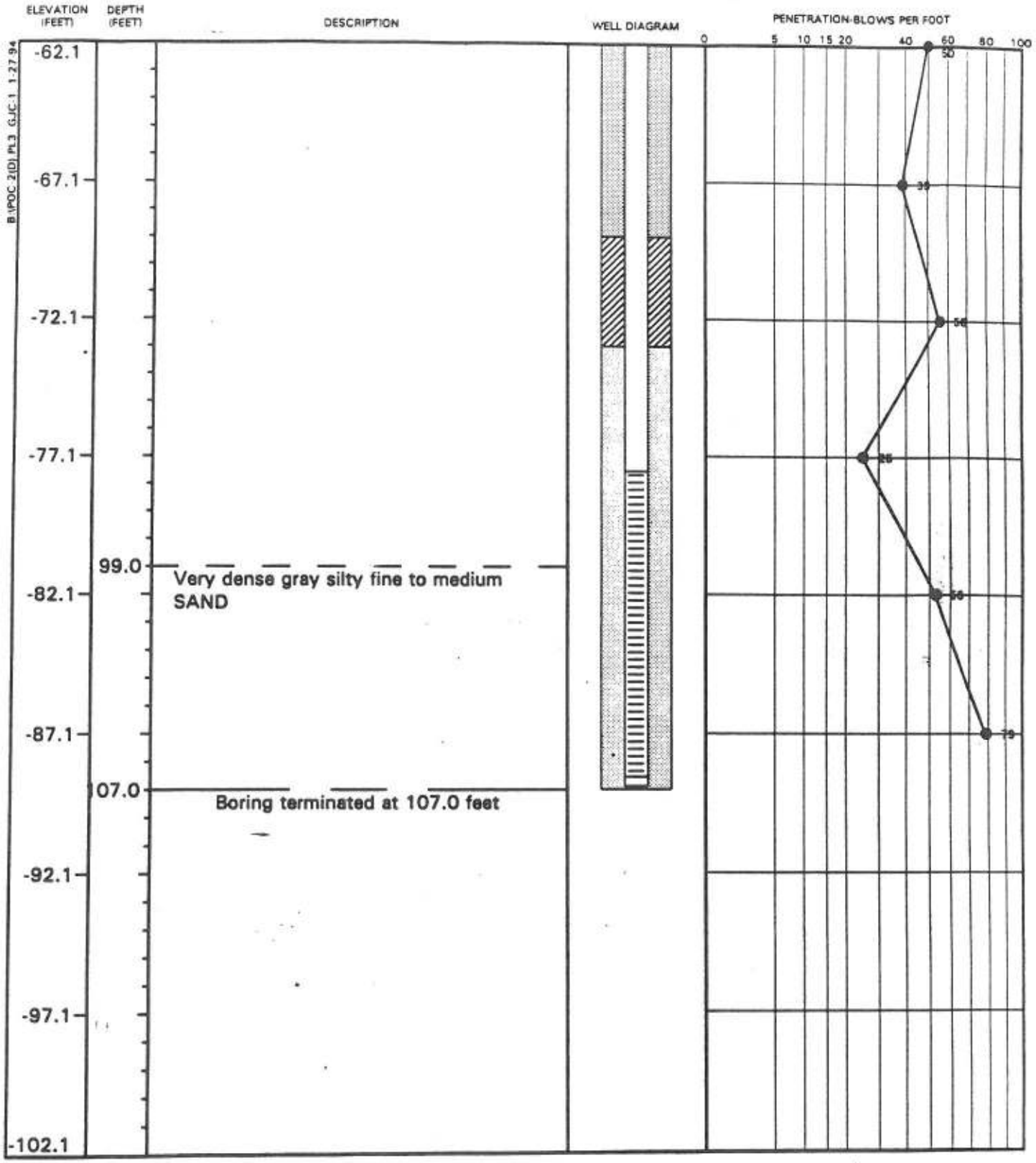


REMARKS:

DRILLED BY	LAW-ATL	BORING NUMBER	POC-2(D)
LOGGED BY	D.Allen	DATE STARTED	10-1-93
CHECKED BY	K.Davis	DATE COMPLETED	10-2-93
		JOB NUMBER	55-355

Law Environmental

TEST BORING RECORD



REMARKS:

DRILLED BY	LAW-ATL	BORING NUMBER	POC-2(D)
LOGGED BY	D.Allen	DATE STARTED	10-1-93
CHECKED BY	K.Davis	DATE COMPLETED	10-2-93
		JOB NUMBER	55-355310

Law Environmental

TYPE III MONITORING WELL INSTALLATION DIAGRAM

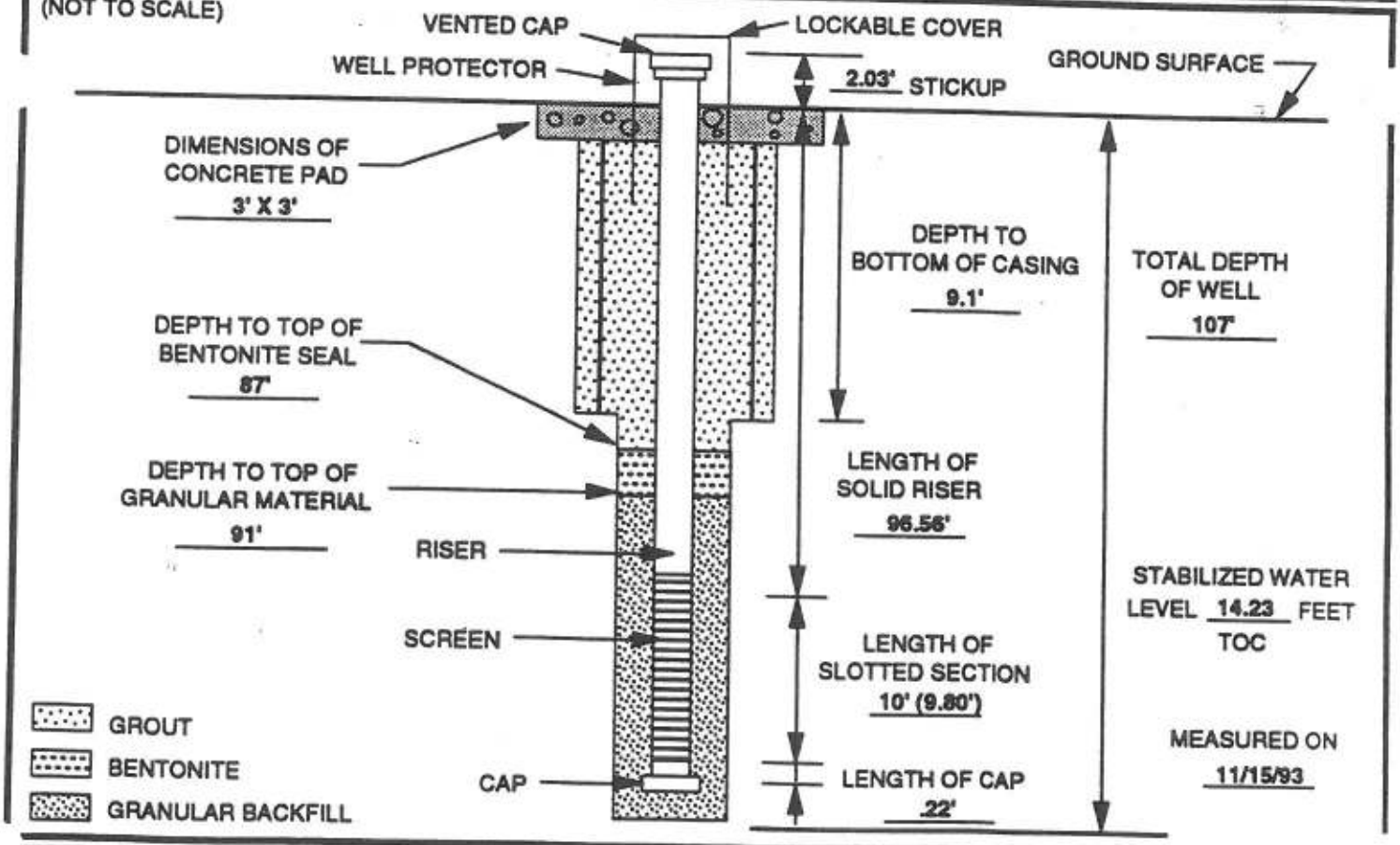
LAW ENVIRONMENTAL, INC.
KENNESAW, GEORGIA

JOB NAME HERCULES - BRUNSWICK
WELL NO. POC-2 (D) JOB NO. 55-355310
DATE 10/2/93

GROUND SURFACE ELEVATION 17.7 NGVD
TOP OF PAD ELEVATION 17.72 NGVD
TOP OF CASING ELEVATION 19.89 NGVD
TYPE SAND PACK GRANULAR GRADATION 20/30
SCREEN MATERIAL TYPE 304 WIRE WRAP STAINLESS STEEL
MANUFACTURER DRILLERS SERVICE, INC.
RISER MATERIAL TYPE 304 STAINLESS STEEL
MANUFACTURER DRILLERS SERVICE, INC.
RISER DIAMETER 2-INCH
DRILLING TECHNIQUE (above casing) CONVENTIONAL AUGER
BIT SIZE AND TYPE 8-INCH O.D. HOLLOW STEM
DRILLING TECHNIQUE (below casing) WASH ROTARY
BIT SIZE AND TYPE 5 7/8 INCH TRI-CONE ROLLER BIT

BENTONITE TYPE PURE GOLD® BENTONITE TABLETS
CEMENT TYPE PORTLAND TYPE I
BOREHOLE DIAMETER 5 7/8 INCH
SCREEN DIAMETER 2-INCH SLOT SIZE 0.010 INCH
LAW ENVIRONMENTAL, INC.
FIELD REPRESENTATIVE DAVID ALLEN
DRILLING CONTRACTOR LAW ENGINEERING - ATLANTA
AMOUNT BENTONITE USED 0.66 FT³
AMOUNT CEMENT USED 16.1 FT³
AMOUNT SAND USED 2.6 FT³
STATIC WATER DEPTH (after dev.) 14.13 FT
TYPE OF CASING 6" SCHEDULE 40 PVC

(NOT TO SCALE)

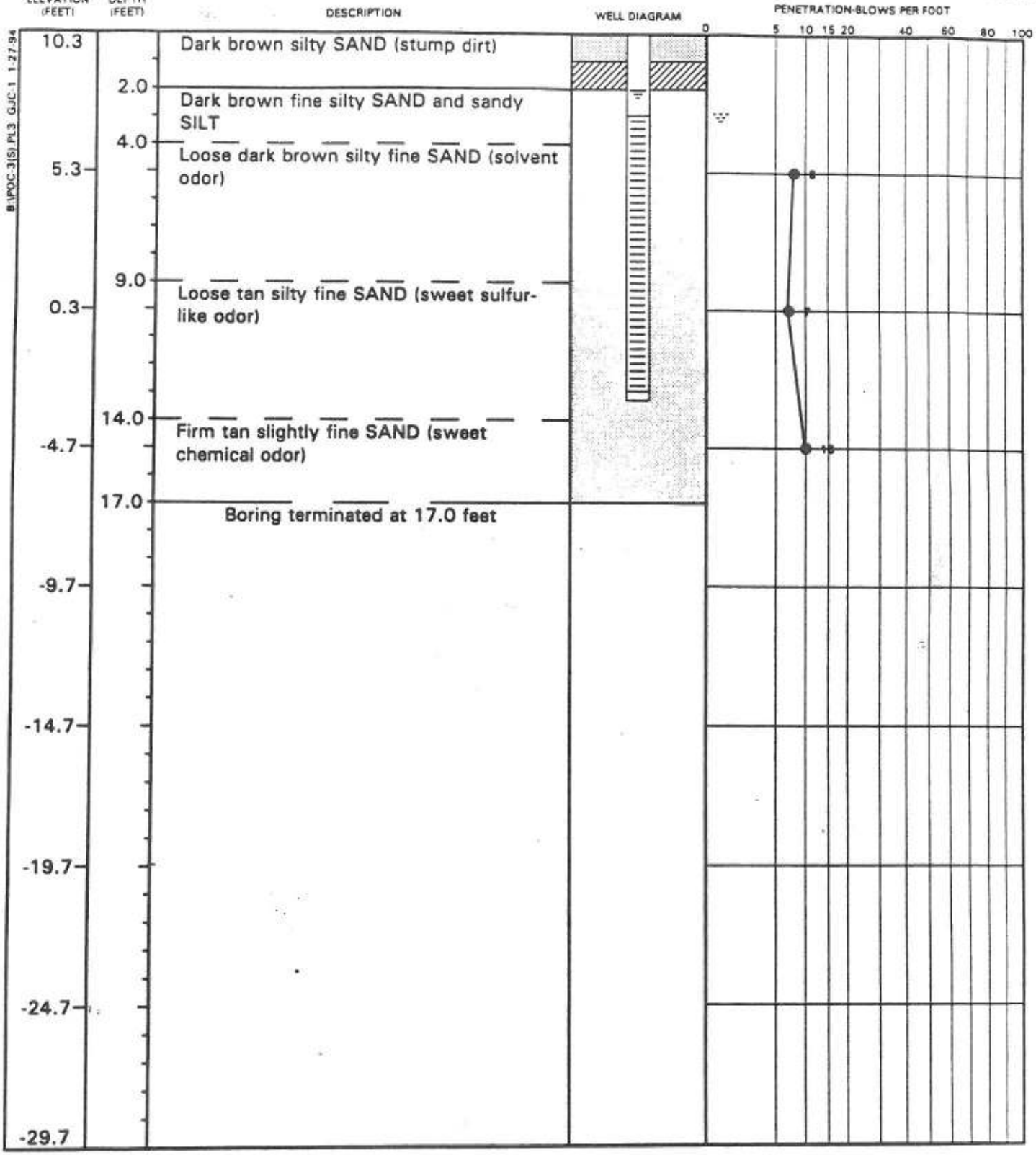


INSTALLED BY: DAVID ALLEN CHECKED BY: GREG MONNETT DATE: 1-26-94

55-3553-10 01

TEST BORING RECORD

DATUM ELEVATION: 12.29 Ft.
HEIGHT OF RISER: 2.00 Ft.



REMARKS:

1) Drilling Technique: 0-17 feet using 8-inch O.D. hollow stem auger.
2) Well Materials: 2-inch stainless steel 0.010-inch slot screen.
3) ⛆ Water level during drilling.
4) ⛆ Water level measured on 10-7-93.
5) Soil descriptions 0-9 feet and 15 feet from POC-3(D).

DRILLED BY	LAW-ATL	BORING NUMBER	POC-3(S)
LOGGED BY	D.Allen	DATE STARTED	10-4-93
CHECKED BY	K.Davis	DATE COMPLETED	10-4-93
		JOB NUMBER	55-355310

Law Environmental

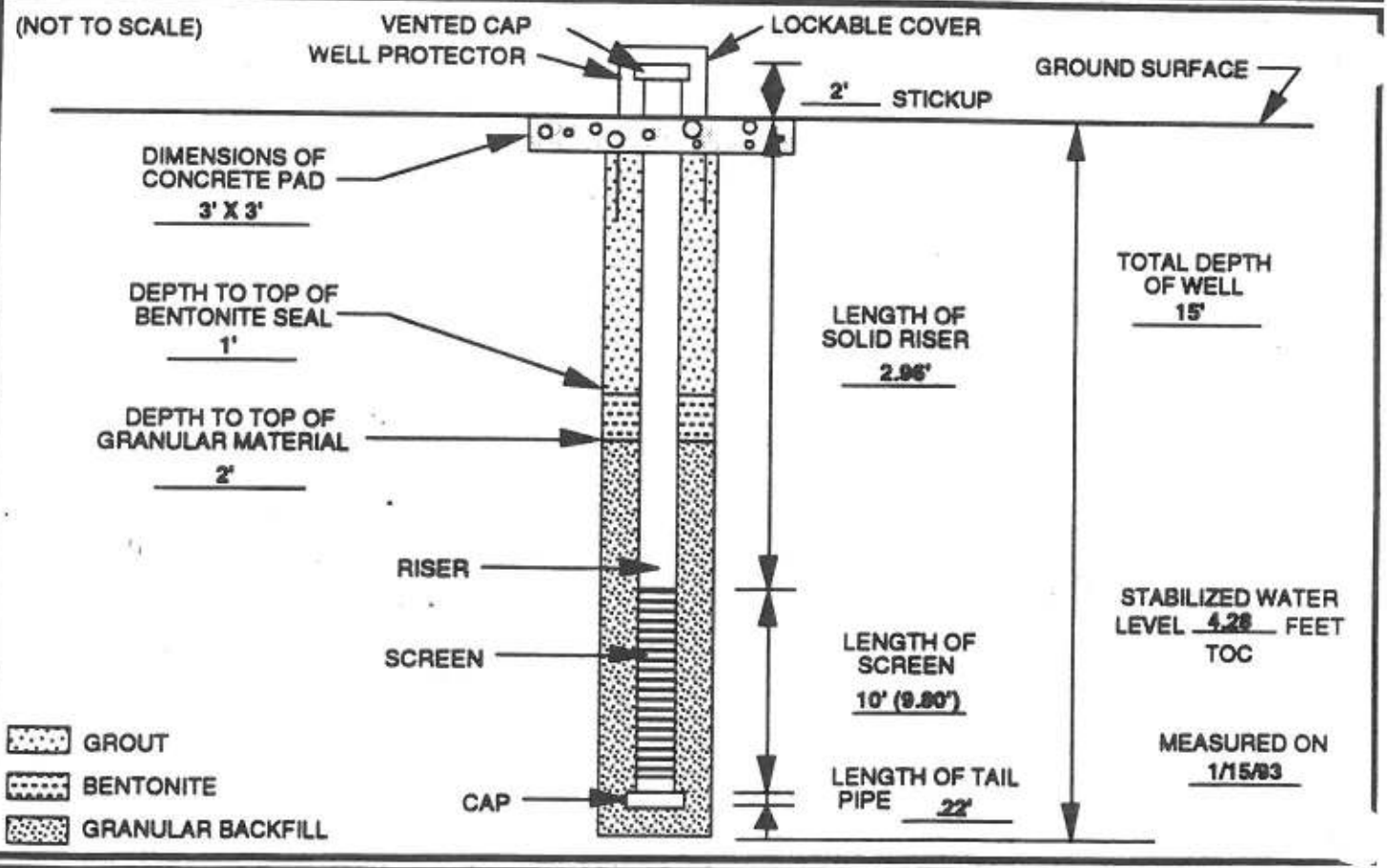
TYPE II MONITORING WELL INSTALLATION DIAGRAM

LAW ENVIRONMENTAL, INC.
KENNESAW, GEORGIA

JOB NAME HERCULES - BRUNSWICK
WELL NO. POC-3 (S) JOB NO. 55-355310
DATE 10/4/93

GROUND SURFACE ELEVATION 10.6 NGVD
TOP OF PAD ELEVATION 10.69 NGVD
TOP OF CASING ELEVATION 12.29 NGVD
TYPE SAND PACK GRANULAR GRADATION 20/30
SCREEN MATERIAL TYPE 304 WIRE WRAP STAINLESS STEEL
MANUFACTURER DRILLERS SERVICE, INC.
RISER MATERIAL TYPE 304 STAINLESS STEEL
MANUFACTURER DRILLERS SERVICE, INC.
RISER DIAMETER 2-INCH
DRILLING TECHNIQUE CONVENTIONAL AUGER
BIT SIZE AND TYPE 8-INCH O.D. HOLLOW STEM

BENTONITE TYPE PURE GOL®D BENTONITE TABLETS
CEMENT TYPE PORTLAND TYPE I
BOREHOLE DIAMETER 8-INCH
SCREEN DIAMETER 2-INCH SLOT SIZE 0.010 INCH
LAW ENVIRONMENTAL, INC. FIELD REPRESENTATIVE DAVID ALLEN
DRILLING CONTRACTOR LAW ENGINEERING - ATLANTA
AMOUNT BENTONITE USED 0.16 FT^3
AMOUNT CEMENT USED 0.16 FT^3
AMOUNT SAND USED 1.8 FT^3
STATIC WATER DEPTH (after dev.) 4.16 FT

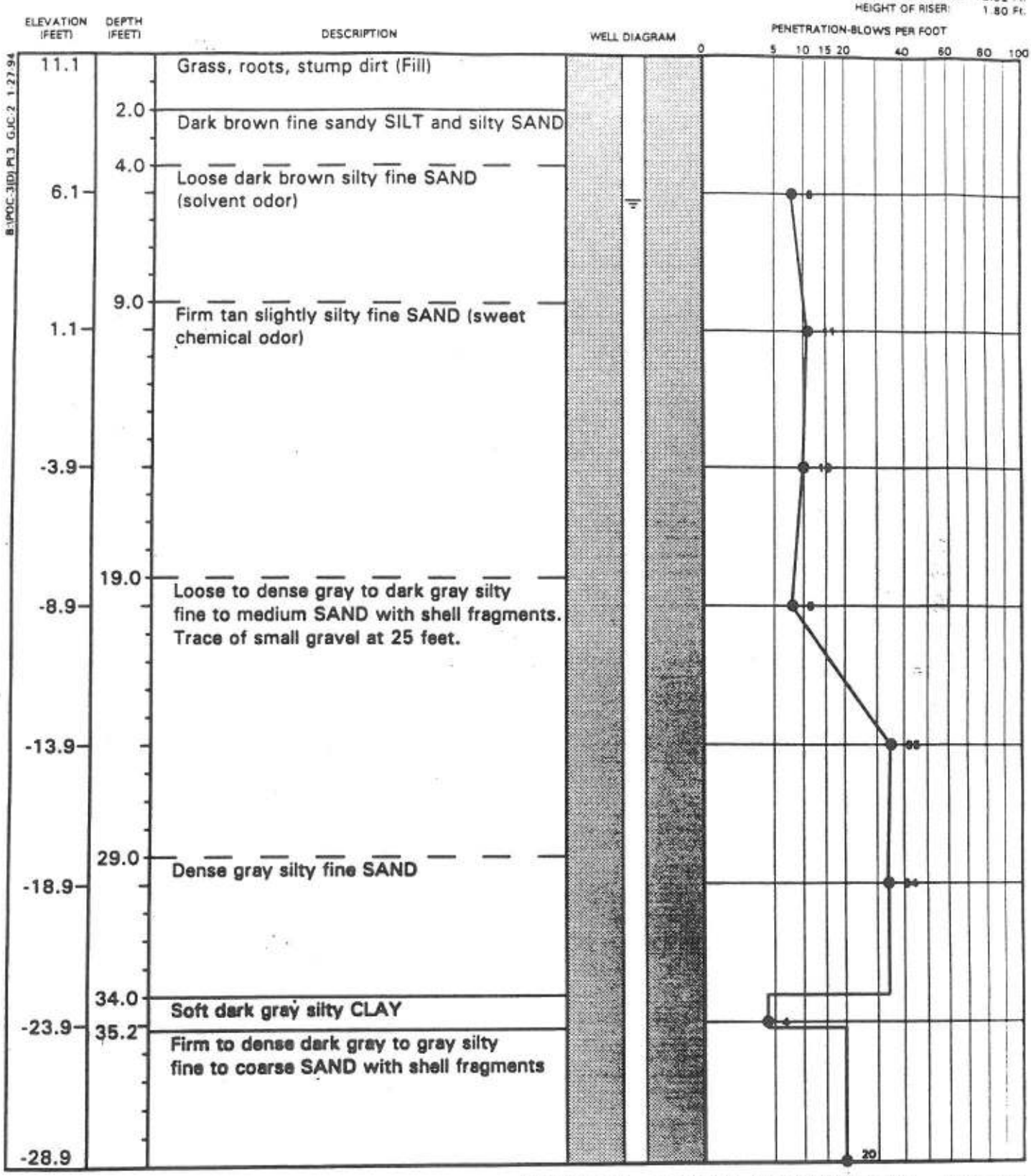


INSTALLED BY: DAVID ALLEN CHECKED BY: GREG MONNETT DATE: 1/26/94

55-3553-10.01

TEST BORING RECORD

DATUM ELEVATION: 12.92 Ft.
HEIGHT OF RISER: 1.80 Ft.



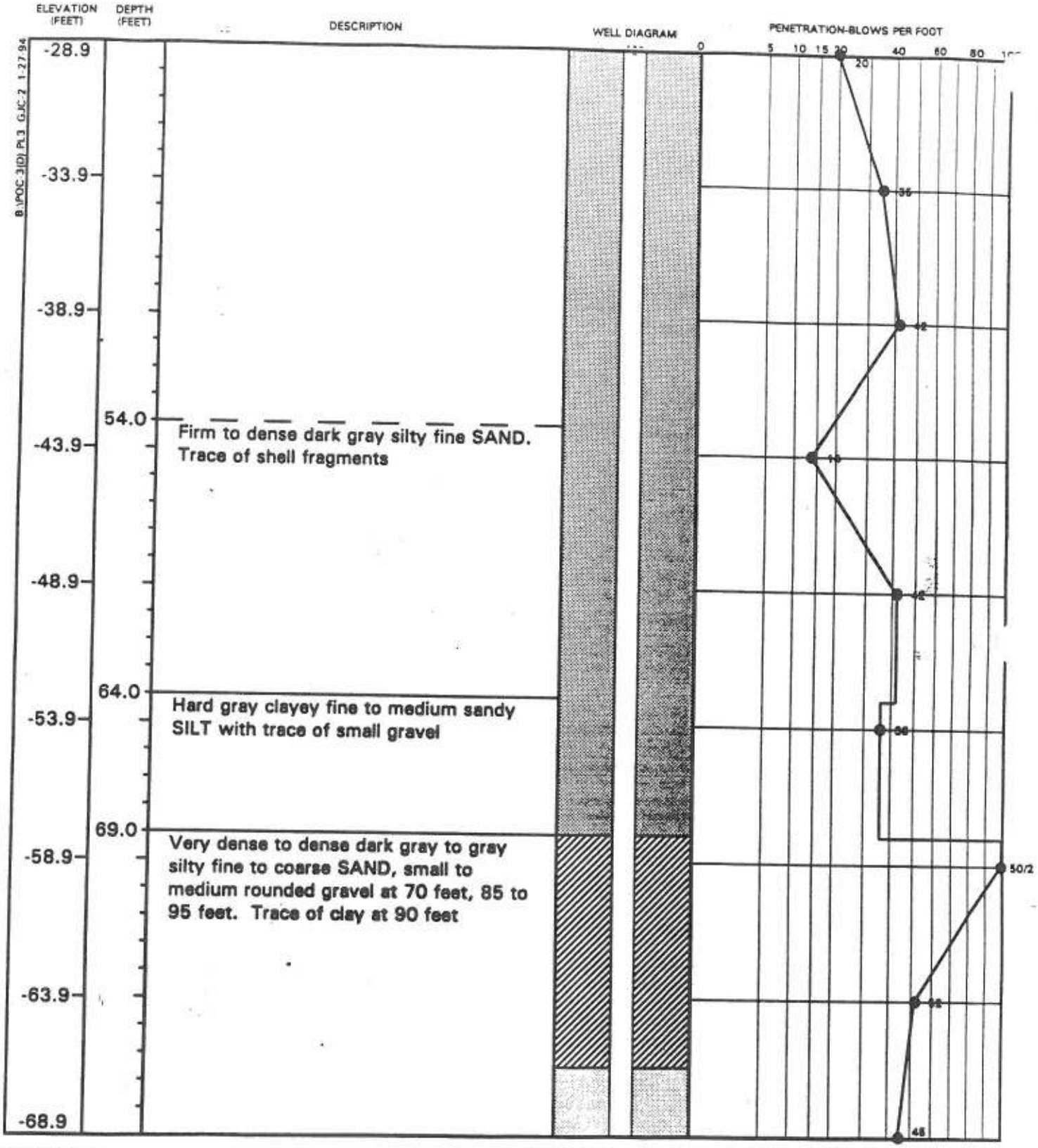
REMARKS:

1) Drilling Technique: 0-97 feet using 5 7/8-inch tricone roller bit.
2) Well materials: 2-inch stainless steel 0.010-inch slot screen.
3) ⛆ Water level during drilling.
4) ⛆ Water level on 10-7-93.

DRILLED BY	LAW-ATL	BORING NUMBER	POC-3(D)
LOGGED BY	D.Allen	DATE STARTED	10-03-93
CHECKED BY	K.Davis	DATE COMPLETED	10-04-93
		JOB NUMBER	55-355310

Law Environmental

TEST BORING RECORD

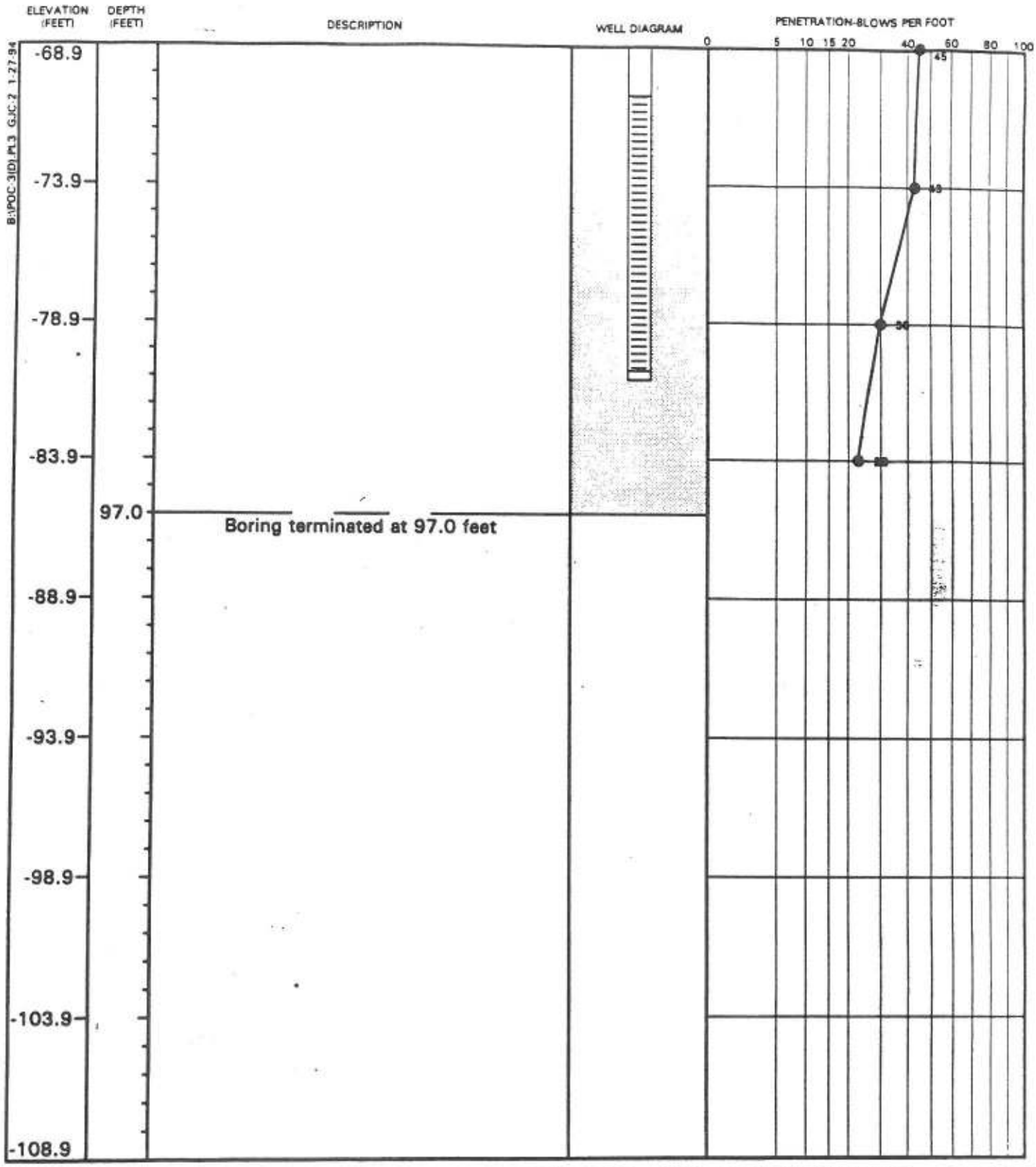


REMARKS:

DRILLED BY	LAW-ATL	BORING NUMBER	POC-3(D)
LOGGED BY	D.Allen	DATE STARTED	10-03-93
CHECKED BY	K.Davis	DATE COMPLETED	10-04-9
		JOB NUMBER	55-3553

Law Environmental

TEST BORING RECORD



REMARKS:

DRILLED BY	LAW-ATL	BORING NUMBER	POC-3(D)
LOGGED BY	D.Allen	DATE STARTED	10-03-93
CHECKED BY	K.Davis	DATE COMPLETED	10-04-93
		JOB NUMBER	55-355310

Law Environmental

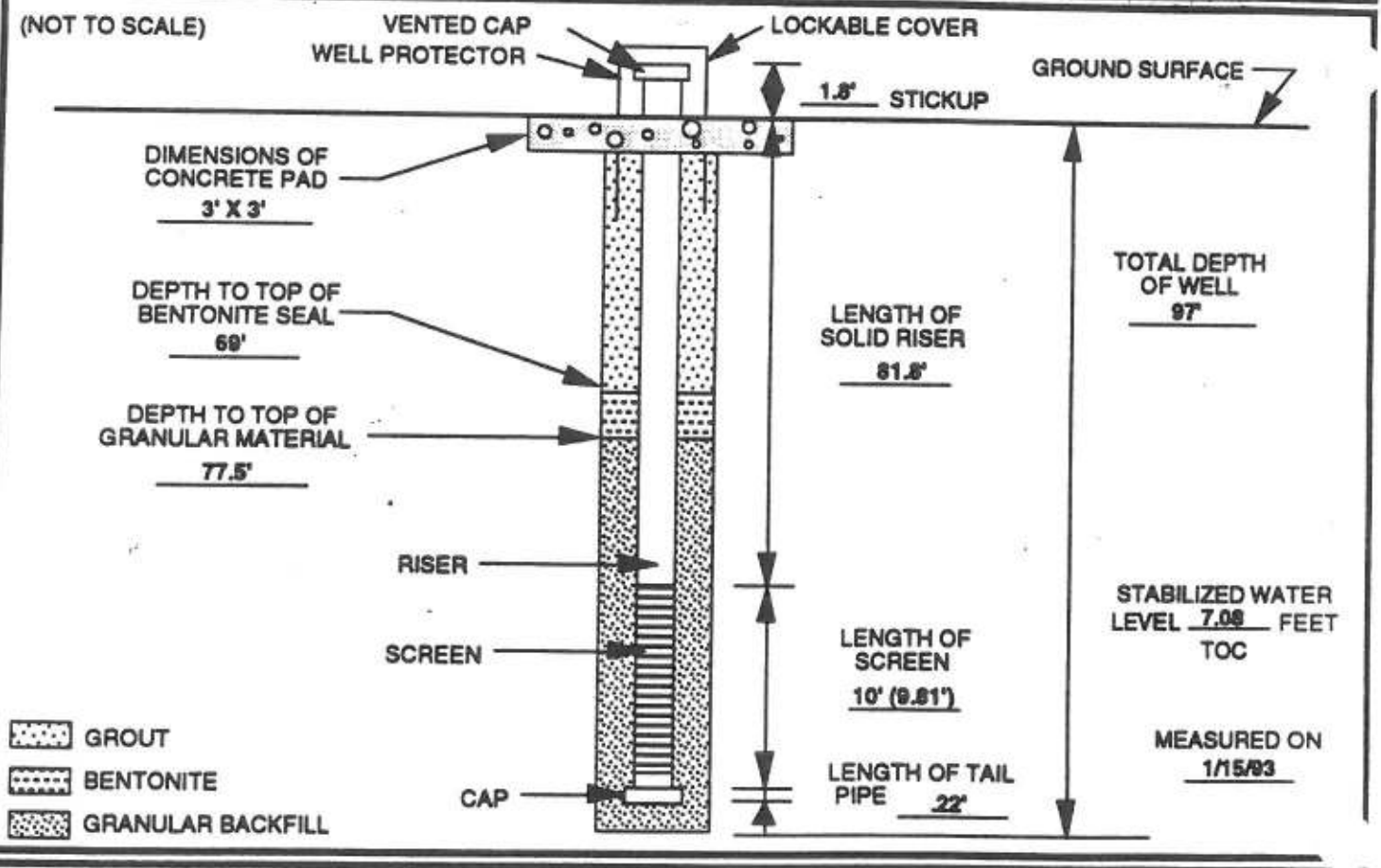
TYPE II MONITORING WELL INSTALLATION DIAGRAM

LAW ENVIRONMENTAL, INC.
KENNESAW, GEORGIA

JOB NAME HERCULES - BRUNSWICK
WELL NO. POC-3 (D) JOB NO. 55-355310
DATE 10/4/93

GROUND SURFACE ELEVATION 11.0 NGVD
TOP OF PAD ELEVATION 11.02 NGVD
TOP OF CASING ELEVATION 12.92 NGVD
TYPE SAND PACK GRANULAR GRADATION 20/30
SCREEN MATERIAL TYPE 304 WIRE WRAP STAINLESS STEEL
MANUFACTURER DRILLERS SERVICE, INC.
RISER MATERIAL TYPE 304 STAINLESS STEEL
MANUFACTURER DRILLERS SERVICE, INC.
RISER DIAMETER 2-INCH
DRILLING TECHNIQUE WASH ROTARY
BIT SIZE AND TYPE 5 7/8 INCH TRI-CONE ROLLER BIT

BENTONITE TYPE PURE GOLD® BENTONITE TABLETS
CEMENT TYPE PORTLAND TYPE I
BOREHOLE DIAMETER 5 7/8-INCH
SCREEN DIAMETER 2-INCH SLOT SIZE 0.010 INCH
LAW ENVIRONMENTAL, INC. FIELD REPRESENTATIVE DAVID ALLEN
DRILLING CONTRACTOR LAW ENGINEERING - ATLANTA
AMOUNT BENTONITE USED 1.4 FT³
AMOUNT CEMENT USED 11.5 FT³
AMOUNT SAND USED 2.8 FT³
STATIC WATER DEPTH (after dev.) 7.2 FT



INSTALLED BY: DAVID ALLEN CHECKED BY: GREG MONNETT DATE: 1/26/94

55-3553-10 01

GEOSYNTEC CONSULTANTS
1255 Roberts Blvd., NW
Suite 200
Kennesaw, GA 30144-3694

BORING LOG

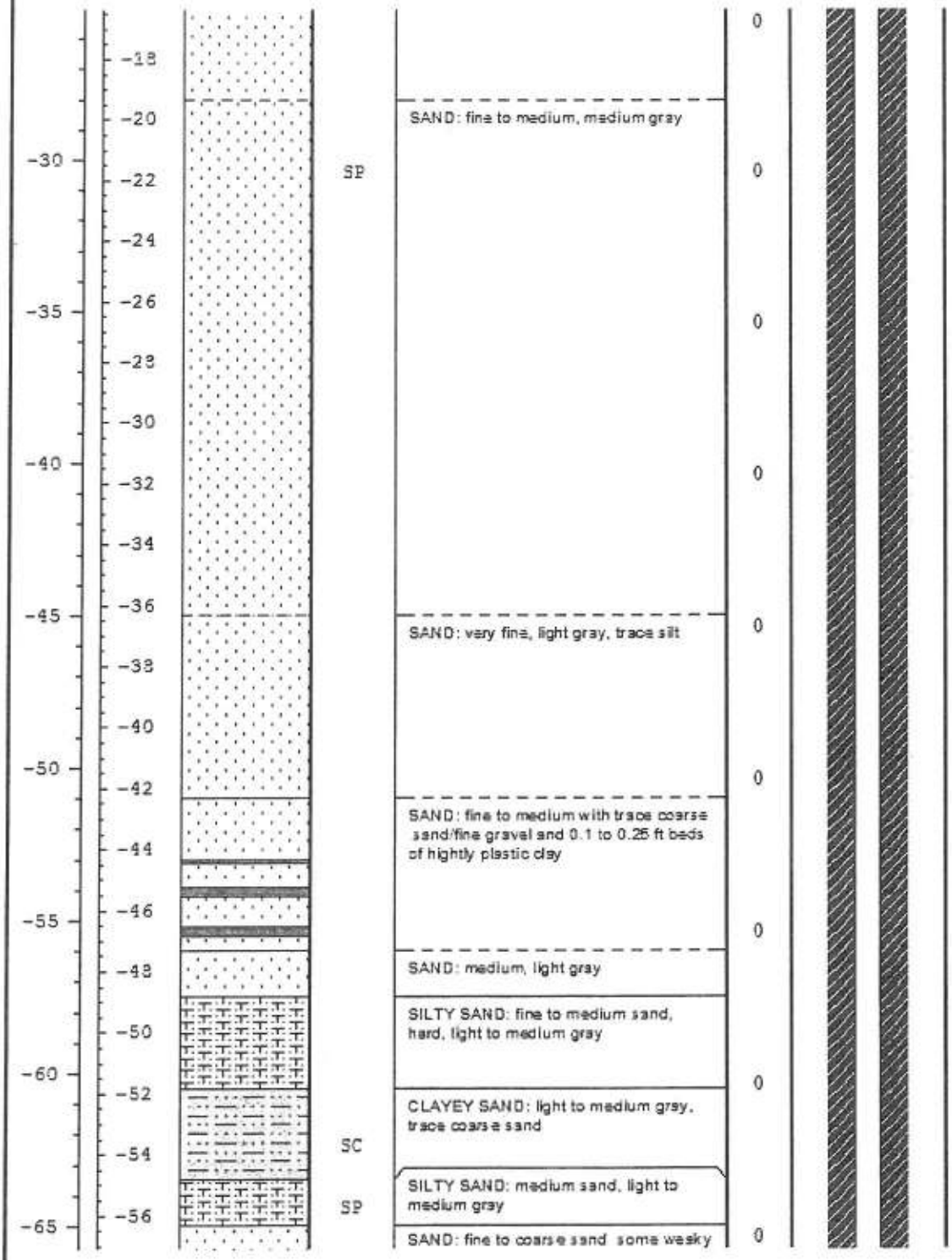
BORING NO.: **MW-25D**
DATE: **9-7-05**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	Hercules	DRILLING CO.:	Prosonic
LOCATION.:	Brunswick, GA	DRILLING METHOD:	Rotosonic
PROJECT NO.	GR 3666	TOTAL DEPTH:	90.5 ft
LOGGED BY:	T. Keller	TOP OF CASING ELEV.:	10.27 ft.
CHECKED BY:	G.Roush	HEIGHT OF CASING ABOVE GROUND SURFACE:	2.6 ft.

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
0 to -25	8 to -16		SM / SP / SP / SP-SM	SILTY SAND: fine, gray brown SAND: fine, gray brown SAND: fine, tan SAND: fine, slightly silty, gray, with trace medium to coarse sand and trace clay with depth	0 0 0 0		

NOTES:
▽ Water Level during drilling
▼ Water level in completed monitoring well on 9/9/05

PROJECT: Hercules | BORING NO.: MW-25D



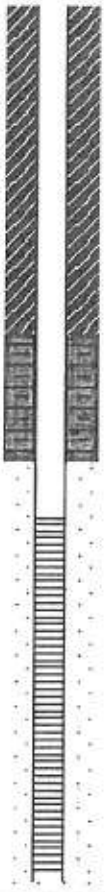
NOTES:

Water Level during drilling

Water level in completed monitoring well on 9/9/05

PROJECT: Hercules

BORING NO.: MW-25D

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
-70	-58			cemented, medium gray, slightly clayey from 71 to 73 ft.	0		
	-60						
	-62						
	-64						
-75	-66		GP	SAND AND GRAVEL: medium to coarse sand with well rounded gravel up to 30mm, light gray	0		
	-68						
	-70			CLAY: very stiff, mottled olive gray and medium gray			
-80	-72		CL		0		
	-74		SP	SAND: medium to coarse, medium gray with trace of clay from 84.5 to 85 ft.			
-85	-76			SANDY SILT: hard, clayey, tan	0		
	-79		SM				
	-80			CLAYEY SAND: silty, medium sand, olive gray			Boring Terminated at 90.5 ft.
-90			SC		0		

NOTES:

▽ Water Level during drilling

▼ Water level in completed monitoring well on 9/9/05

GEOSYNTEC CONSULTANTS
1255 Roberts Blvd., NW
Suite 200
Kennesaw, GA 30144-3694

BORING LOG

BORING NO.: **MW-25S**
DATE: **9-7-05**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	Hercules	DRILLING CO.:	Prosonic
LOCATION.:	Brunswick, GA	DRILLING METHOD:	Rotosonic
PROJECT NO.	GR 3666	TOTAL DEPTH:	16.0 ft.
LOGGED BY:	T. Keller	TOP OF CASING ELEV.:	10.37 ft.
CHECKED BY:	G.Roush	HEIGHT OF CASING ABOVE GROUND SURFACE:	2.6 ft.

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
0 -10 -15	6 4 2 0 -2 -4 -6 -8		SM SP SP	SILTY SAND: fine, gray brown SAND: fine, gray brow SAND: fine, with trace of silt, tan	0 0 0		Boring Terminated st 16 ft.

NOTES:
- Water Level during drilling
- Water level in completed monitoring well on 9/9/05

GEOSYNTEC CONSULTANTS
1255 Roberts Blvd., NW
Suite 200
Kennesaw, GA 30144-3694

BORING LOG

BORING NO.: **MW-26D**
DATE: **9-19-05**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	Hercules	DRILLING CO.:	Prosonic
LOCATION.:	Brunswick, GA	DRILLING METHOD:	Rotosonic
PROJECT NO.	GR 3666	TOTAL DEPTH:	90.0 ft
LOGGED BY:	T. Keller	TOP OF CASING ELEV.:	6.97 ft.
CHECKED BY:	G.Roush	HEIGHT OF CASING ABOVE GROUND SURFACE:	-0.24 ft.

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
0	6		SM	SILTY SAND: dark brown, with organic material (roots, humus)			
	4		SM-SP	SAND: slightly silty, light brown			
-5	2			SAND: fine to medium sand, tan	0		
	0		SP				
-10	-2				0		
	-4			SAND: fine, medium gray with marine shells from 15 to 15.3 ft.			
	-6		SP				
-15	-8				0		
	-10		SC	CLAYEY SAND: soft, medium gray, with 25% marine shells up to 12mm			
	-12			SILTY SAND: loose,medium sand,slightly clayey, with 10% marine shells	0		
-20	-14		SM				
	-16			SAND: loose, fine sand, slightly clayey, with 5% marine shells, and interbeds 0.1 to 0.25 ft thick of greenish gray soft			
-25							

NOTES:
▽ Water Level during drilling
▼ Water level in completed monitoring well on 9/20/05

PROJECT: Hercules | BORING NO.: MW-26D

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
-30	-18			plastic CLAY	0		
	-20		SP-SC				
	-22				0		
	-24			SAND: fine to medium sand, light gray, with clay from 34.8 to 35 ft.			
-35	-26		SP				
	-28				0		
	-30			CLAYEY SAND: loose, greenish gray with 15% marine shells			
-40	-32		SC				
	-34				0		
	-36						
-45	-38		GP	SAND AND GRAVEL: medium sand with gravel consisting of cemented sand, light to medium gray	0		
	-40			SAND: fine to medium sand, medium dense, slightly clayey, trace marine shells			
	-42		SP				
-50				SAND: fine to medium sand, light gray	0		
	-44		SP				
	-46			CLAYEY SAND: dense, medium to coarse sand, light gray			
-55	-48		SC		0		
	-50			CLAYEY GRAVEL: hard, light gray, gravel well rounded up to 20mm. 57-57.4ft gravel lithified to Conglomerate			
	-52		GC				
-60	-54			SAND: fine to medium sand, light gray, trace marine shells	0		
	-56						
-65	-58				0		

NOTES:

▽ Water Level during drilling

▼ Water level in completed monitoring well on 9/20/05

PROJECT: Hercules | BORING NO.: MW-26D

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
-70	-60						
	-62						
	-64		SP		0		
	-66						
-75	-68				0		
	-70						
	-72			SAND: loose, fine to coarse, light gray, with some gravel sized fragments of cemented sand, trace well rounded gravel up to 10mm			
-80	-74				0		
	-76		SP				
-85	-78				0		
	-80						
-90	-82						Boring Terminated at 90.05 ft.

NOTES:

▽ Water Level during drilling

▼ Water level in completed monitoring well on 9/20/05

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BORING LOG

BORING NO.: **MW-26S**
DATE: **9-19-05**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	Hercules	DRILLING CO.:	Prosonic
LOCATION.:	Brunswick, GA	DRILLING METHOD:	Rotosonic
PROJECT NO.	GR 3666	TOTAL DEPTH:	16.0 ft
LOGGED BY:	T. Keller	TOP OF CASING ELEV.:	6.83 ft
CHECKED BY:	G.Roush	HEIGHT OF CASING ABOVE GROUND SURFACE:	-0.36

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
0 to -15	6 to -8		SM / SP / SP / SP-SC	SILTY SAND: dark brown, with organic material (roots, humus) SAND: slightly silty, light brown SAND: fine to medium sand, tan SAND: fine to medium, slightly clayey to clayey, greenish gray	0 0 0		Boring Terminated at 16.0 ft

NOTES:
▽ Water Level during drilling
▼ Water level in completed monitoring well on 9/20/05

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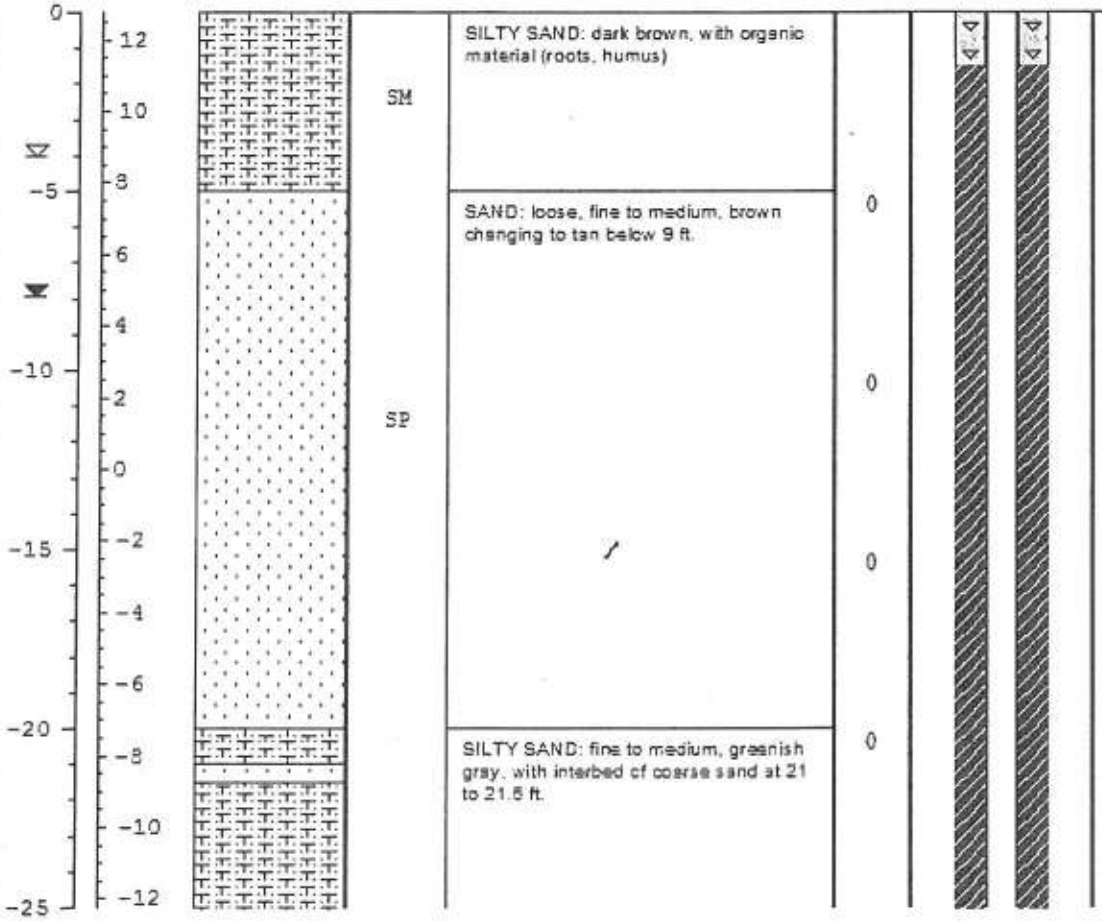
BORING LOG

BORING NO.: **MW-27D**
DATE: **9-12-05**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	Hercules	DRILLING CO.:	Prosonic
LOCATION.:	Brunswick, GA	DRILLING METHOD:	Rotosonic
PROJECT NO.	GR 3666	TOTAL DEPTH:	90.5 ft
LOGGED BY:	T. Keller	TOP OF CASING ELEV.:	14.98 ft.
CHECKED BY:	G.Roush	HEIGHT OF CASING ABOVE GROUND SURFACE:	2.6 ft

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
0 to -5	12 to 8		SM	SILTY SAND: dark brown, with organic material (roots, humus)			
-5 to -20	8 to -8		SP	SAND: loose, fine to medium, brown changing to tan below 9 ft.	0		
-20 to -25	-8 to -12			SILTY SAND: fine to medium, greenish gray, with interbed of coarse sand at 21 to 21.5 ft.	0		



NOTES:
Water Level during drilling
Water level in completed monitoring well on 9-20-05

PROJECT: Hercules

BORING NO.: MW-27D

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
-30	-14 to -22		SM / SP	SAND: loose, medium to coarse, light to medium gray	0		
-35	-22 to -26		SP	SAND: fine to medium, light to medium gray, with several 5-50mm interbeds of soft hightly plastic olive gray CLAY (CH)	0		
-40	-26 to -32		SC	CLAYEY SAND: hard dense, very clayey, medium to coarse sand, grey to medium grey, crumbles, moist Sand seams at 46, 46.8 and 48 ft.	0		
-45	-32 to -34				0		
-50	-34 to -40				0		
-55	-40 to -42		SP	SAND: fine to coarse sand, slightly clayey, light gray	0		
-60	-42 to -46		GC	CLAYEY GRAVEL: with lumps of cemented sand up to 25mm and several interbeds of hard lithifed gravels (conglomerate)	0		
-65	-46 to -52		GP	GRAVEL AND SAND: loose, coarse sand and fine gravel, light gray, trace clay	0		

NOTES:

▽ Water Level during drilling

▼ Water level in completed monitoring well on 9/20/05

PROJECT: Hercules	BORING NO.: MW-27D

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
-70 -75 -80 -85 -90	-54 -56 -58 -60 -62 -64 -66 -68 -70 -72 -74 -76		SP-SC SP SP GC SC SP	SAND: slightly clayey, fine to medium sand, light gray, with marine shells up to 1 inch SAND: slightly clayey, fine to coarse sand,dark gray, with interbeds of clayey gravel from 70 to 70.5. light gray, dry, muddy SANDSTONE from 70.5 to 71ft and dense gray clayey, fine to medium SAND (SC) from 71-72 ft. CLAYEY GRAVEL: with sand, light gray CLAYEY SAND: dense, fine sand, light gray SAND: very dense, slightly clayey, very fine sand, light to medium gray	0 0 0 0 0		Boring Terminated at 90.5 ft.

NOTES: ▽ Water Level during drilling ▼ Water level in completed monitoring well on 9/20/05

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BORING LOG

BORING NO.: **MW-28D**
DATE: **9-15-05**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	Hercules	DRILLING CO.:	Prosonic
LOCATION.:	Brunswick, GA	DRILLING METHOD:	Rotosonic
PROJECT NO.	GR 3666	TOTAL DEPTH:	91.0 ft
LOGGED BY:	T. Keller	TOP OF CASING ELEV.:	8.37 ft.
CHECKED BY:	G.Roush	HEIGHT OF CASING ABOVE GROUND SURFACE:	2.7 ft

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
0	4		SM	SILTY SAND: very loose, dark brown, with organic material (roots, humus)			
	2						
	0		SP	SAND: loose, fine sand, trace fines (silts clays)	0		
-10	-4				0		
	-6						
	-8		SM	SILTY SAND: loose, slightly clayey, fine sand, olive gray.			
-15	-10				0		
	-12			CLAY: soft, greenish gray, high plasticity, trace sand			
-20	-14		CH		0		
	-16						
	-18			SAND: loose, medium sand, medium gray, with trace to 5% marine shells. 0.2 ft interbed of greenish gray high			
-25							

NOTES: ▽ Water Level during drilling ▼ Water level in completed monitoring well on 9/19/05

PROJECT: Hercules

BORING NO.: MW-28D

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
-30	-20			plasticity CLAY (CH) st 26 ft.	0		
	-22						
	-24		SP		0		
	-26						
	-28						
-35	-30				0		
	-32						
-40	-34				2		
	-36						
	-38			SAND: loose, medium to coarse sand, medium gray, with up to 15% marine shells			
-45	-40				13		
	-42		SP				
-50	-44		SP	CLAYEY GRAVEL: sandy, blueish gray, well rounded gravel up to 70mm	74		
	-46						
	-48			SILTY SAND: loose, medium sand, olive gray			
-55	-50		SM		0		
	-52			SAND: loose, slightly silty, medium sand, medium gray.			
-60	-54				6		
	-56		SP				
	-58						
-65	-60				10		

NOTES:

▽ Water Level during drilling

▼ Water level in completed monitoring well on 9/19/05

PROJECT: Hercules | BORING NO.: MW-28D

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
-70	-62		GP	GRAVEL: loose, slightly silty, medium sand, medium gray, with fragments up to 80mm of SANDSTONE			
	-64		GC	CLAYEY GRAVEL: dense to hard, sandy, slightly moist to dry at 70 ft.	0		
	-66			SAND: medium to coarse, medium gray, wet, with trace fines			
-75	-68						
	-70		SP		79		
	-72						
-80	-74				36		
	-76			CLAYEY SAND: dense to hard, medium to coarse sand, tan to light gray			
	-78						
-85	-80		SC		9		
	-82						
-90	-84				3		Boring Terminated at 91 ft.

NOTES:

▽ Water Level during drilling

▼ Water level in completed monitoring well on 9/19/05

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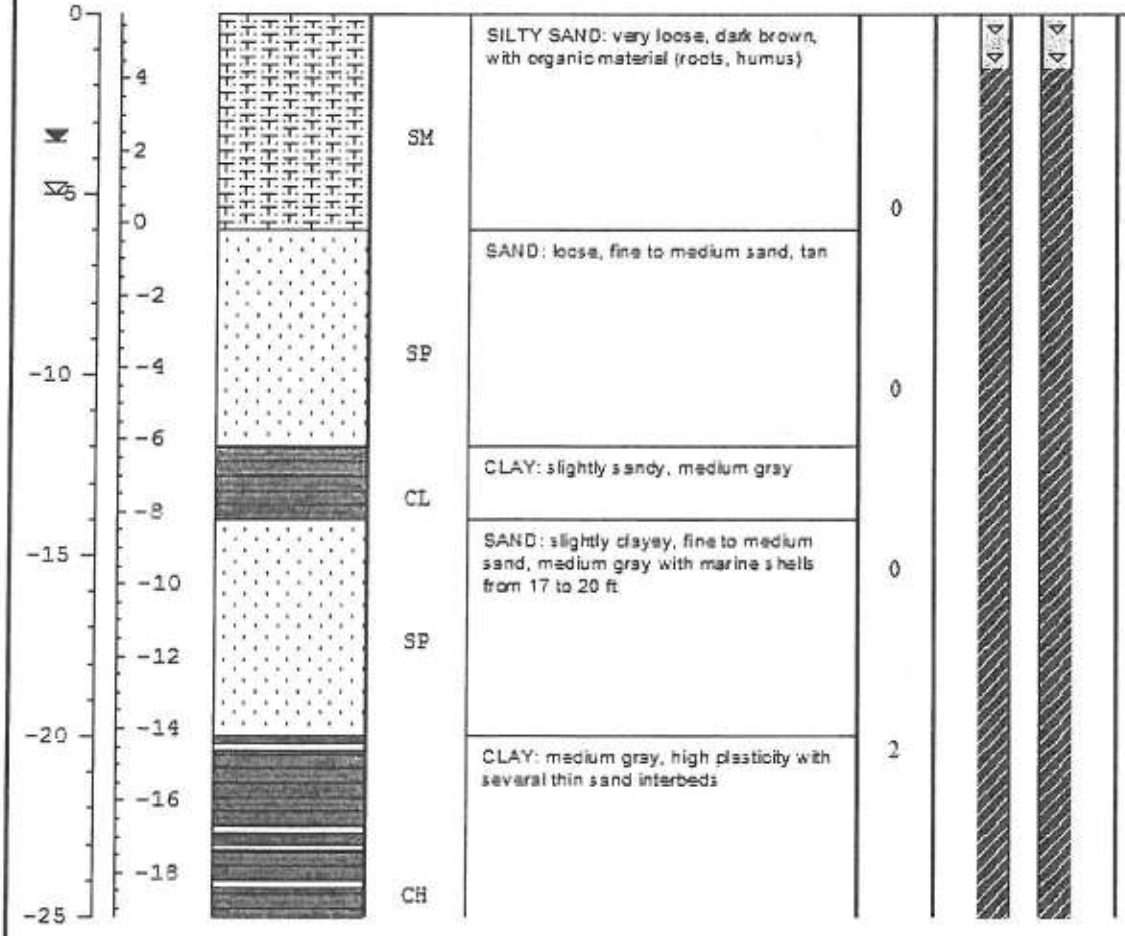
BORING LOG

BORING NO.: **MW-29D**
DATE: **9-16-05**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	Hercules	DRILLING CO.:	Prosonic
LOCATION.:	Brunswick, GA	DRILLING METHOD:	Rotosonic
PROJECT NO.	GR 3666	TOTAL DEPTH:	89.75 ft
LOGGED BY:	T. Keller	TOP OF CASING ELEV.:	8.47 ft.
CHECKED BY:	G.Roush	HEIGHT OF CASING ABOVE GROUND SURFACE:	2.75 ft

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
0 to -5	4 to 0		SM	SILTY SAND: very loose, dark brown, with organic material (roots, humus)	0		
-5 to -10	0 to -4		SP	SAND: loose, fine to medium sand, tan	0		
-10 to -15	-4 to -8		CL	CLAY: slightly sandy, medium gray			
-15 to -20	-8 to -14		SP	SAND: slightly clayey, fine to medium sand, medium gray with marine shells from 17 to 20 ft	0		
-20 to -25	-14 to -18		CH	CLAY: medium gray, high plasticity with several thin sand interbeds	2		



NOTES:
▽ Water Level during drilling
▼ Water level in completed monitoring well on 9/20/05

PROJECT: Hercules	BORING NO.: MW-29D

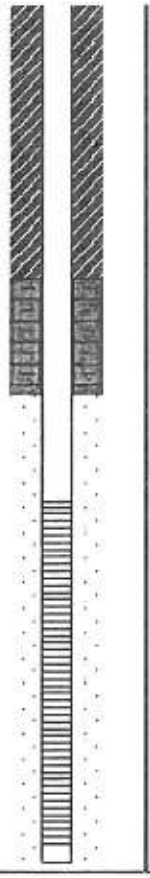
DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
-30	-20				0		
	-22			SAND: fine, light gray, with 3 interbeds of gray highly plastic clay from 33 to 34ft			
	-24		SP		0		
	-26						
-35	-28			SAND: fine to medium sand, light gray, with 10% marine shells and interbeds of gray highly plastic CLAY (CH)	0		
	-30						
	-32						
-40	-34		SP		0		
	-36						
-45	-38			SAND: dense, slightly silty, fine to medium sand, with trace of clay	0		
	-40						
	-42		SP				
-50	-44				3		
	-46						
	-48						
-55	-50						
	-52						
-60	-54		SP	SAND: fine to medium sand, medium gray			
	-56			CLAYEY SAND: very dense, fine to medium sand, medium gray			
	-58						
-65	-60						

NOTES:

▽ Water Level during drilling

▼ Water level in completed monitoring well on 9/20/05

PROJECT: Hercules | BORING NO.: MW-29D

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
-70 -75 -80 -85 -90	-60 -62 -64 -66 -68 -70 -72 -74 -76 -78 -80 -82 -84		SC SP	SANDSTONE: muddy, light gray, with thin lenses of clayey sand SAND: loose, medium to coarse, medium gray			Boring Terminated at 89.75 ft.

NOTES:

▽ Water Level during drilling

▼ Water level in completed monitoring well on 9/20/05

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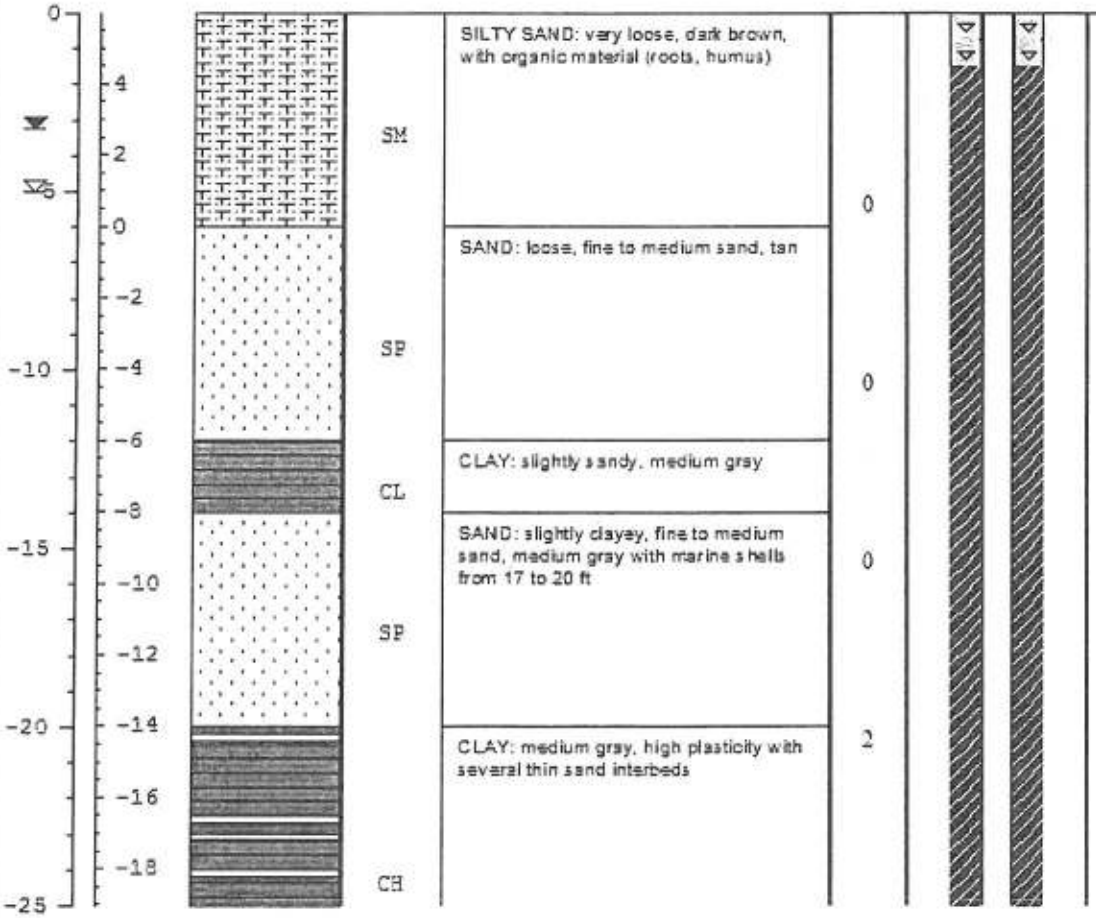
BORING LOG

BORING NO.: **MW-29I**
DATE: **9-16-05**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	Hercules	DRILLING CO.:	Prosonic
LOCATION.:	Brunswick, GA	DRILLING METHOD:	Rotosonic
PROJECT NO.	GR 3666	TOTAL DEPTH:	50.5 ft
LOGGED BY:	T. Keller	TOP OF CASING ELEV.:	8.85 ft.
CHECKED BY:	G.Roush	HEIGHT OF CASING ABOVE GROUND SURFACE:	2.6 ft

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
0 to -10	4 to -6		SM	SILTY SAND: very loose, dark brown, with organic material (roots, humus)	0		
			SP	SAND: loose, fine to medium sand, tan	0		
-10 to -15	-6 to -8		CL	CLAY: slightly sandy, medium gray			
	-8 to -10		SP	SAND: slightly clayey, fine to medium sand, medium gray with marine shells from 17 to 20 ft	0		
-20	-14 to -16		CH	CLAY: medium gray, high plasticity with several thin sand interbeds	2		
-25	-18						



NOTES: ▽ Water Level during drilling ▼ Water level in completed monitoring well on 9/20/05

PROJECT: Hercules	BORING NO.: MW-29I

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
-30	-20				0		
	-22			SAND: fine, light gray, with 3 interbeds of gray highly plastic clay from 33 to 34ft			
	-24		SP		0		
	-26						
	-28						
-35	-30			SAND: fine to medium sand, light grey, with 10% marine shells and interbeds of gray highly plastic CLAY (CH)	0		
	-32						
-40	-34		SP		0		
	-36						
	-38						
-45	-40			SAND: dense, slightly silty, fine to medium sand, with trace of clay	0		
	-42		SP				
-50	-44				3		Boring Terminated at 50.5ft.

NOTES: ▽ Water Level during drilling ▼ Water level in completed monitoring well on 9/20/05

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BORING LOG

BORING NO.: **MW-30D**
DATE: **9-8-05**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	Hercules	DRILLING CO.:	Prosonic
LOCATION.:	Brunswick, GA	DRILLING METHOD:	Rotosonic
PROJECT NO.	GR 3666	TOTAL DEPTH:	90.5 ft.
LOGGED BY:	T. Keller	TOP OF CASING ELEV.:	12.18 ft
CHECKED BY:	G.Roush	HEIGHT OF CASING ABOVE GROUND SURFACE:	2.4 ft.

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
0	8		SM	SILTY SAND: very loose, dark brown, with organic material (roots, humus)	0		
-5	6						
	4						
	2			SAND: loose, fine to medium sand, light brown	0		
-10	0						
	-2						
	-4		SP		0		
-15	-6						
	-8			SILTY SAND: loose, fine to medium sand, grayish brown	0		
-20	-10		SM				
	-12			SAND: loose, fine to coarse, medium gray			
-25	-14						

NOTES: ▽ Water Level during drilling ▼ Water level in completed monitoring well on 9/9/05

PROJECT: Hercules | BORING NO.: MW-30D

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
-30	-16 to -20		SP		0		
				SAND: fine, light gray, slightly silty, with few 0.3 to 0.5 ft interbeds of olive gray highly plastic CLAY (CH)	0		
-35	-20 to -26		SP		0		
-40	-26 to -32				0		
-45	-32 to -36			SAND: medium to coarse, with 20% marine shells up to 1/2 inch, and lense of olive gray highly plastic CLAY (CH) at 45-46 ft.	0		
-50	-36 to -40		SP		0		
				SAND: loose, medium, light gray with some zones of weakly cemented sand			
-55	-40 to -46		SP		0		
	-46 to -48			SILTY SAND: very hard, fine sand, light gray			
-60	-48 to -52			SAND: loose, medium to coarse, medium gray, with interbed of light gray sandy CLAY (CH)	0		
	-52 to -54		SP				
				CLAYEY SAND: fine to coarse sand, medium gray, with 10% shell fragments up to 10mm			
-65	-54 to -56		SC	CLAYEY GRAVEL: sandy, medium gray with well rounded gravel up to 20mm	0		

NOTES:

▽ Water Level during drilling

▼ Water level in completed monitoring well on 9/9/05

PROJECT: Hercules	BORING NO.: MW-30D

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
-70	-58		SP	SAND: medium to coarse sand, dark grey, with trace of gravel	0		
	-60						
	-62			CLAY: stiff, sandy, medium gray, with high plasticity			
	-64		CH				
-75	-66			SANDY SILT: very hard, clayey, light grey	0		
	-68		ML				
	-70			SANDSTONE: light gray, fine grained, some calcareous cement.			
-80					0		
	-72			SILTY SAND: very hard, slightly clayey, light gray			
	-74						
-85	-76		SM		0		
	-78						
-90	-80		SP	SAND: slightly clayey, fine to medium sand, with less fines at 90 ft.	0		Boring Terminated at 90.5ft.

NOTES:

▽ Water Level during drilling

▼ Water level in completed monitoring well on 9/9/05

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BORING LOG

BORING NO.: **MW-30S**
DATE: **9-8-05**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	Hercules	DRILLING CO.:	Prosonic
LOCATION.:	Brunswick, GA	DRILLING METHOD:	Rotosonic
PROJECT NO.	GR 3666	TOTAL DEPTH:	16 FT.
LOGGED BY:	T. Keller	TOP OF CASING ELEV.:	12.16 ft
CHECKED BY:	G.Roush	HEIGHT OF CASING ABOVE GROUND SURFACE:	2.4 ft.

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
0	8		SM	SILTY SAND: very loose, fine sand, dark brown, with organic material (roots, humus)	0		
-5	6						
	4			SAND: loose, fine to medium sand, light brown			
	2						
-10	0				0		
	-2						
	-4						
-15	-6				0		Boring Terminated at 16 ft.

NOTES:
▽ Water Level during drilling
▼ Water level in completed monitoring well on 9/9/05

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BORING LOG

BORING NO.: **MW-31D**
DATE: **9-9-05**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	Hercules	DRILLING CO.:	Prosonic
LOCATION.:	Brunswick, GA	DRILLING METHOD:	Rotosonic
PROJECT NO.	GR 3666	TOTAL DEPTH:	90.5 ft.
LOGGED BY:	T. Keller	TOP OF CASING ELEV.:	16.44 ft
CHECKED BY:	G.Roush	HEIGHT OF CASING ABOVE GROUND SURFACE:	2.5 ft.

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
0 to -25	12 to -10		SM	SILTY SAND: very loose, dark brown, with organic material (roots, humus) with some concrete debris on surface	0		
			SP	SAND: loose, fine to medium sand, light brown	0		
			SM	SILTY SAND: loose, slightly clayey, medium sand, gray	0		
			SM	SILTY SAND: loose, medium sand, with some coarse, medium gray	0		
				SAND: loose, fine to medium, light gray			

NOTES:
▽ Water Level during drilling
▼ Water level in completed monitoring well on 9/9/05

PROJECT: Hercules | BORING NO.: MW-31D

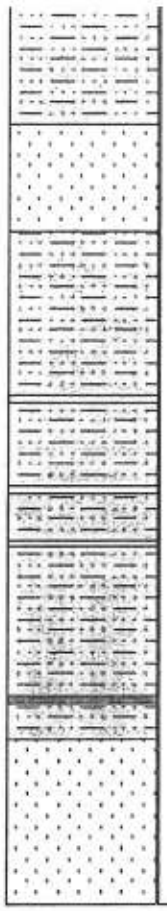
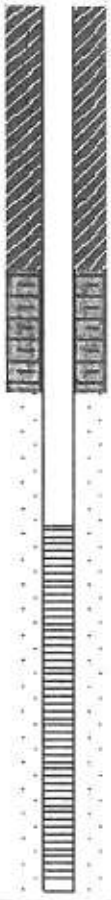
DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
	-12		SP		0		
	-14			CLAYEY SAND: medium to coarse sand, light gray with 30% marine shells			
-30	-16		SC		0		
	-18			SAND: fine, light gray, with interbedded gray CLAY (CH)			
	-20						
-35			SP		0		
	-22						
	-24			CLAY: soft, highly plastic, olive gray			
-40	-26		CH		0		
	-28			SAND: loose, medium to coarse, slightly silty with 5% marine shells			
	-30		SP				
-45					0		
	-32						
	-34			CLAYEY SAND: dense, silty, light gray			
			SC				
-50	-36		SP	SAND: loose, coarse sand, medium gray	0		
	-38			CLAY: firm, high plasticity, olive gray, with 0.5ft interbedded sand.			
			CH				
	-40			CLAYEY SAND: dense, fine to medium sand, dark to medium gray			
-55					0		
	-42						
	-44		SC				
-60	-46			SAND: medium sand, light gray			
					0		
	-48						
	-50		SP				
-65				CLAYEY SAND: grayish tan	0		

NOTES:

▽ Water Level during drilling

▼ Water level in completed monitoring well on 9/9/05

PROJECT: Hercules	BORING NO.: MW-31D

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
-70	-52		SC	SAND: loose, medium to coarse, light gray	0		Boring Terminsted at 90.5ft.
-75	-54						
-80	-56		SP				
-85	-58			CLAYEY SAND: very hard to dense, light gray, with few interbeds of muddy SANDSTONE, and one lense of light gray highly plastic CLAY (CH) at 84.9 to 85 ft.	0		
-90	-60						
	-62						
	-64						
	-66		SC		0		
	-68						
	-70						
	-72				0		
	-74		SP	SAND: slightly clayey, medium sand, light gray with trace marine shells			
	-76				0		

NOTES:

Water Level during drilling

Water level in completed monitoring well on 9/9/05

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BORING LOG

BORING NO.: **MW-32D**
DATE: **9-8-05**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	Hercules	DRILLING CO.:	Prosonic
LOCATION.:	Brunswick, GA	DRILLING METHOD:	Rotosonic
PROJECT NO.	GR 3666	TOTAL DEPTH:	90 ft.
LOGGED BY:	T. Keller	TOP OF CASING ELEV.:	12.24 FT.
CHECKED BY:	G.Roush	HEIGHT OF CASING ABOVE GROUND SURFACE:	2.4 ft.

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
0	8		SM	SILTY SAND: loose, fine to medium sand, black to dark gray, with organic material (roots, humus)	N/A		PID not working due to rain
-5	6						
	4						
	2			SAND: loose, fine sand, light brown to light gray			
-10	0		SP				
	-2						
	-4						
-15	-6			SILTY SAND: loose, fine sand, olive gray, trace clay			
	-8		SM				
-20	-10						
	-12			CLAYEY SAND: olive gray, with 30% marine shell fragments			
	-14		SC				
-25				SAND: fine to coarse sand, olive gray,			

NOTES:
▽ Water Level during drilling
▼ Water level in completed monitoring well on 9/9/05

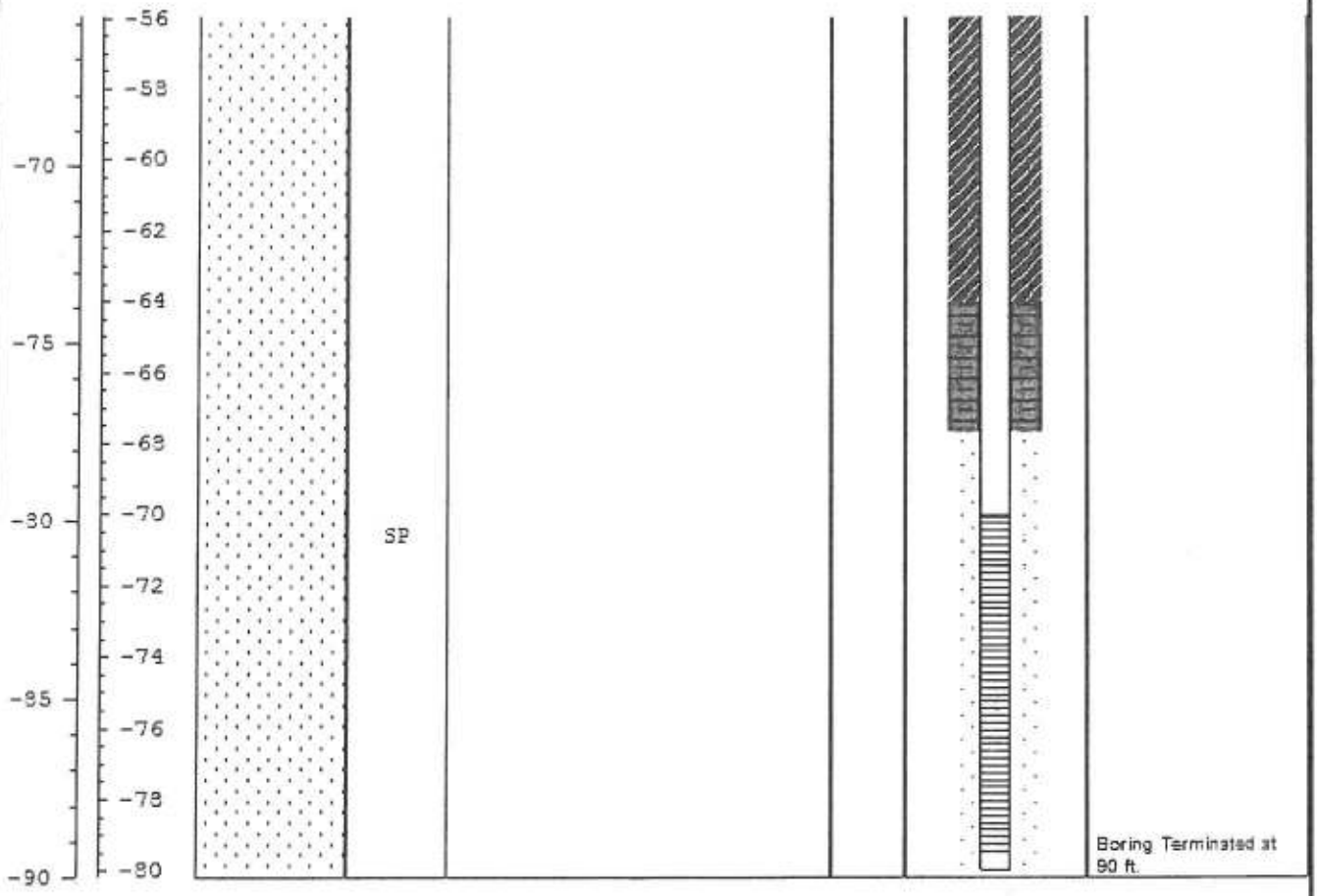
PROJECT: Hercules	BORING NO.: MW-32D

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
	-16		SP	with 30% marine shell fragments			
	-18						
-30	-20		SP	SAND: fine, light gray			
	-22		CH	CLAY: fine sandy, olive gray, high plasticity			
	-24						
-35	-26		SM	SILTY SAND: slightly clayey, fine sand, olive gray			
	-28						
-40	-30		CH	CLAY: slightly silty, light gray to olive, highly plastic, with 0.1 ft sand interbed			
	-32						
	-34			SAND: slightly silty, fine to coarse sand, light to medium gray, with up to 20% shell fragments, and weakly cemented sand in zones			
-45	-36						
	-38						
-50	-40		SP				
	-42						
	-44						
-55	-46		ML	SILT: hard, slightly clayey, light to medium gray gray			
	-48		CL	CLAY: hard, sandy, medium gray			
-60	-50		SM	SILTY SAND: dark gray			
	-52			SAND: fine to medium sand, medium gray, well sorted			
	-54						
-65							

NOTES: ▽ Water Level during drilling ▼ Water level in completed monitoring well on 9/9/05

PROJECT: Hercules	BORING NO.: MW-32D

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES



NOTES:

Water Level during drilling

Water level in completed monitoring well on 9/9/05

GEOSYNTEC CONSULTANTS
1255 Roberts Blvd., NW
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Kennesaw, GA 30144-3694

BORING LOG

BORING NO.: **MW-33**
DATE: **9-14-05**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	Hercules	DRILLING CO.:	Prosonic
LOCATION.:	Brunswick, GA	DRILLING METHOD:	Rotosonic
PROJECT NO.	GR 3666	TOTAL DEPTH:	132 ft..
LOGGED BY:	T. Keller	TOP OF CASING ELEV.:	9.12 ft.
CHECKED BY:	G.Roush	HEIGHT OF CASING ABOVE GROUND SURFACE:	2.6 ft.

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
0 to -10	6 to -4		SM	SILTY SAND: loose, dark brown	0		
			SP	SAND: loose, fine to medium sand, brown			
-10 to -15	-6 to -8		SP	SAND: fine, gray with olive gray clay seams	1		
-15 to -20	-10 to -12		SC	CLAYEY SAND: medium grained sand, dark gray	6		
-20 to -25	-14 to -18			SAND: fine to medium grained, well sorted, light gray, with thin interbedded olive gray highly plastic CLAY (CH)	20		

NOTES:
▽ Water Level during drilling
▼ Water level in completed monitoring well on 9/20/05

PROJECT: Hercules

BORING NO.: MW-33

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
-30	-20				5		
	-22						
	-24		SP		2		
	-26						
-35	-28				41		
	-30						
	-32						
-40	-34				174		
	-36						
	-38						
-45	-40				110		
	-42						
-50	-44			CLAYEY SAND: medium grain sand, clayey to slightly clayey, dark gray with trace of well rounded gravel at 60ft.	84		
	-46						
	-48		SC		36		
-55	-50						
	-52						
-60	-54			CLAYEY SAND: loose, light gray	28		
	-56						
-65	-58		SC		19		

NOTES:

▽ Water Level during drilling

▼ Water level in completed monitoring well on 9/20/05

PROJECT: Hercules

BORING NO.: MW-33

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
-70	-60			CLAYEY SAND: dense,, light gray			
	-62		SC		40		
	-64			CLAYEY SAND: medium grained sand, light gray with fragments of sandstone up to 50mm			
	-66		SC				
-75	-68			SAND AND GRAVEL: slightly silty, fine to coarse sand, light to medium gray, with up to 20% shell fragments, and weakly cemented sand in zones	11		
	-70						
	-72		GP				
-80	-74				4		
	-76			CLAY: hard, slightly sandy, silty, light gray			
-85	-78		CL		5		
	-80			CLAY: stiff to dense, very clayey sand to sandy clay, light gray			
	-82						
-90	-84				0		
	-86						
	-88						
-95			CL		0		
	-90						
	-92			CLAY: hard, fine to medium sandy, light gray, slightly moist			Temporary Outer 8-inch steel casing, set to 100ft.
-100	-94				0		
			CL				
	-96						
-105	-98			CLAYEY SAND: dense, light gray, wet			
			SC		0		
	-100						

NOTES:

Water Level during drilling

Water level in completed monitoring well on 9/20/05

PROJECT: Hercules	BORING NO.: MW-33

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
	-102		CL	CLAY: hard, light gray, dry			
-110	-104			SAND: firm, slightly silty, fine grained sand	0		
	-106		SP				
	-108						
-115	-110		SC	CLAYEY SAND: dense, fine to medium sand, medium gray	0		
	-112			CLAYEY SAND: dense, fine, medium gray			
-120	-114		SC		0		
	-116						
	-118			SAND: fine , medium gray with interbedded clay at 125 ft and 128 ft.			
-125	-120				0		
	-122						
-130	-124		SP		0		Boring Terminsted at 132 ft.

NOTES:

Water Level during drilling

Water level in completed monitoring well on 9/20/05

GEOSYNTEC CONSULTANTS
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BORING LOG

BORING NO.: **MW-34**
DATE: **9-15-05**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	Hercules	DRILLING CO.:	Prosonic
LOCATION.:	Brunswick, GA	DRILLING METHOD:	Rotosonic
PROJECT NO.	GR 3666	TOTAL DEPTH:	136 ft..
LOGGED BY:	T. Keller	TOP OF CASING ELEV.:	14.11 ft.
CHECKED BY:	G.Roush	HEIGHT OF CASING ABOVE GROUND SURFACE:	2.6 ft.

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
0	10		SM	SILTY SAND: loose, dark brown			
5	8		SP	SAND: loose, fine to medium sand, light brown	0		
	6						
	4		SP	SAND: fine, dark brown with organics			
-10	2				8		
	0			SAND: fine, light brown			
-15	-2				0		
	-4		SP				
	-6						
-20	-8			SAND: fine to coarse grained sand, medium grey with 20mm seam of clay at 22 ft and 10mm seam at 31 ft.	0		
	-10						
-25	-12						

NOTES:
▽ Water Level during drilling
▼ Water level in completed monitoring well on 9/20/05

PROJECT: Hercules | BORING NO.: MW-34

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
-30	-14		SP		0		
	-16						
	-18				0		
	-20			SAND: fine grained sand, medium gray			
	-22		SP				
-35	-24			SAND: fine to coarse grained sand, light gray, with the beds of olive highly plastic CLAY (CH) at 41, 42.5, and 49 ft.	0		
	-26						
-40	-28				8		
	-30						
	-32						
-45	-34		SP		0		
	-36						
-50	-38				0		
	-40						
	-42						
-55	-44			CLAYEY SAND: dense, fine to medium grained sand, dark brownish gray	0		
	-46		SC				
	-48			SAND: slightly silty, fine to medium grained sand, light to medium gray			
-60	-50		SP		0		
	-52						
-65	-54			SAND: slightly clayey, medium to coarse grained sand, medium to dark	0		

NOTES: ▽ Water Level during drilling ▼ Water level in completed monitoring well on 9/20/05

PROJECT: Hercules | BORING NO.: MW-34

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
-70	-56		SC-SP	gray	0		
	-58						
	-60						
	-62		GC	CLAYEY GRAVEL: hard, with well rounded gravel up to 20mm, light gray, dry	0		
-75	-64			SAND: fine to coarse grained sand, medium gray, with trace gravel			
	-66						
-80	-68				0		
	-70						
	-72		SP				
-85	-74				0		
	-76		SC	CLAYEY SAND: light to medium gray, with 25% marine shells			
				SAND: fine to coarse sand, medium gray with traces clay			
-90	-78				0		
	-80		SP				
	-82						
-95	-84		CL	CLAY: hard, sandy, light gray, dry	0		
				CLAY: stiff,medium gray to olive gray			
	-86		CL-CH				
				CLAY: sandy, medium gray to olive			
-100	-88				0		
	-90		CL	SANDSTONE: muddy,light gray			
	-92			CLAY: very sandy clay to very clayey sand, light grayish tan, slightly moist			
-105	-94		SC-CL		0		Temporary Outer 8-inch steel casing, set to 108 ft.

NOTES:

Water Level during drilling

Water level in completed monitoring well on 9/20/05

PROJECT: Hercules

BORING NO.: MW-34

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
110	-96						
	-98		SP	SAND: medium sand, with trace of clay, light gray	0		
	-100			CLAYEY SAND: dense, light grayish tan			
115	-102		SC		0		
	-104						
	-106						
120	-108			SAND: fine, light to medium gray, interbedded with 10 to 30mm beds of olive CLAY (CH) at 124,124.5, 129, and 130.5ft	0		
	-110						
	-112						
125	-114		SP		0		
	-116						
	-118				0		
130	-120						
	-122		SP	SAND: dense, fine grained, slightly silty, light to medium gray.			
135	-124				0		Boring backfilled with bentonite from 132-136ft Boring Terminated at 136 ft.

NOTES:

▽ Water Level during drilling

▼ Water level in completed monitoring well on 9/20/05

GEOSYNTEC CONSULTANTS
1255 Roberts Blvd., NW
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Kennesaw, GA 30144-3694

BORING LOG

BORING NO.: **MW-35D**
DATE: **9-12-05**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	Hercules	DRILLING CO.:	Prosonic
LOCATION.:	Brunswick, GA	DRILLING METHOD:	Rotosonic
PROJECT NO.	GR 3666	TOTAL DEPTH:	91 ft.
LOGGED BY:	T. Keller	TOP OF CASING ELEV.:	10.13 FT.
CHECKED BY:	G.Roush	HEIGHT OF CASING ABOVE GROUND SURFACE:	2.5 ft.

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
0 to -25	6 to -16		SM	SILTY SAND: loose, fine to medium sand, dark brown, with organic material (roots, humus)	0		
			SP	SAND: loose, slightly silty, fine to medium sand, tan	0		
			SM	SILTY SAND: loose, fine to coarse sand, gray	0		
			CL	CLAY: olive gray, high plasticity			
			SC	CLAYEY SAND: medium sand, olive gray	0		
				SILTY SAND: fine, olive gray, with several 10 to 20mm interbeds of olive gray clay			

NOTES:
▽ Water Level during drilling
▼ Water level in completed monitoring well on 9/21/05

PROJECT: Hercules | BORING NO.: MW-35D

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
	-18		SM		0		
	-20						
-30	-22			SAND: coarse to medium sand, gray, with interbedded 5-10mm clay seams	0		
	-24		SP				
	-26			SAND: medium sand, light gray			
-35	-28				0		
	-30						
-40	-32				0		
	-34						
	-36						
-45	-38		SP		0		
	-40						
-50	-42				3		
	-44						
	-46			SAND: slightly clayey, medium to coarse sand, dark gray, with several thin interbedded clay seams			
-55	-48		SP		5		
	-50			SAND: medium sand, light gray, with 0.3 ft SANDSTONE bed at 62.5 ft.			
-60	-52				1		
	-54		SP				
	-56			SAND: medium to coarse, light gray			
-65	-58				0		

NOTES:

▽ Water Level during drilling

▼ Water level in completed monitoring well on 9/21/05

PROJECT: Hercules	BORING NO.: MW-35D

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
-70	-60		SP				
	-62			CLAY: hard, sandy,tan	0		
	-64		CL				
	-66			CLAY: soft, silty olive gray			
-75	-68		CL		0		
	-70						
-80	-72				0		
	-74						
	-76			CLAYEY GRAVEL: hard, gravel well rounded up to 30mm			
-85	-78		GC		0		
	-80			CLAYEY SAND: medium sand, medium gray			
-90	-82		SC		0		Boring Terminated at 91 ft.

NOTES:

▽ Water Level during drilling

▼ Water level in completed monitoring well on 9/21/05

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1255 Roberts Blvd., NW
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Kennesaw, GA 30144-3694

BORING LOG

BORING NO.: **MW-36D**
DATE: **9-9-05**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	Hercules	DRILLING CO.:	Prosonic
LOCATION.:	Brunswick, GA	DRILLING METHOD:	Rotosonic
PROJECT NO.	GR 3666	TOTAL DEPTH:	91 ft.
LOGGED BY:	T. Keller	TOP OF CASING ELEV.:	15.74 FT.
CHECKED BY:	G.Roush	HEIGHT OF CASING ABOVE GROUND SURFACE:	2.5 ft.

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
0	12		SM	SILTY SAND: loose, fine to medium sand, dark brown, with organic material (roots, humus)			
	10		SP	SAND: loose, fine to medium sand, light grayish tan			
▽5	8			SAND: loose,slightly silty, fine to medium sand, dark brown, with organic material (roots, humus)	0		
	6		SP				
-10	4			SAND: fine to medium sand, light brown	0		
	2						
	0						
-15	-2		SP		0		
	-4			SAND: slightly clayey, fine to medium sand, medium gray			
-20	-6		SP				
	-8			SAND: loose, slightly silty, fine to coarse sand, with 5% marine shells.	0		
	-10						
-25			SP				

NOTES: ▽ Water Level during drilling ▼ Water level in completed monitoring well on unstable

PROJECT: Hercules	BORING NO.: MW-36D

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
-30	-12		SP	SAND: loose, medium to coarse sand, with 5% marine shells	0		
	-14						
	-16				0		
	-18			SAND: loose, fine medium sand, medium gray, interbedded with olive gray CLAY (CH)			
-35	-20		SP	CLAYEY SAND: fine sand, greenish gray	0		
	-22		SC	SAND: loose, fine to medium sand, trace silt			
	-24		SP				
-40	-26				0		
	-28			CLAYEY SAND: hard, light gray			
	-30		SC				
-45	-32			SANDSTONE: light gray, medium to coarse grained.	0		
	-34		SP	SAND: loose, coarse grained, medium gray			
-50	-36			CLAYEY SAND: dense to very dense, fine to coarse sand, medium gray, with 10% marine shells up to 10mm	3		
	-38						
	-40		SC				
-55	-42				5		
	-44		SP	SAND: medium to coarse sand, light gray			
			SC	CLAYEY SAND: light gray			
-60	-46			MUDSTONE: tan gray very muddy sandstone	1		
	-48			CLAYEY SAND: very hard, medium to coarse grained, light gray			
	-50		SC				
-65	-52			SAND: loose, medium grained, dark	0		

NOTES:

▽ Water Level during drilling

▼ Water level in completed monitoring well on unstable

PROJECT: Hercules	BORING NO.: MW-36D

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
-70	-54		SP	gray, well sorted	0		
	-56						
	-58						
	-60		SC	CLAYEY SAND: dense, light grayish tan			
-75	-62			CLAYEY SAND: dense, medium grained, medium gray	0		
	-64						
	-66		SC				
-80	-68				0		
			CL	CLAY: very stiff, dark greenish gray			
	-70			CLAYEY SAND: dense, fine to coarse grained, dark gray			
-85	-72		SC		0		
	-74			CLAYEY GRAVEL: up to 75mm fragments of cemented clay-sand-shells with light gray plastic clay			
-90	-76		GC		0		Boring Terminated at 91 ft.

NOTES:

▽ Water Level during drilling

▼ Water level in completed monitoring well on unstable

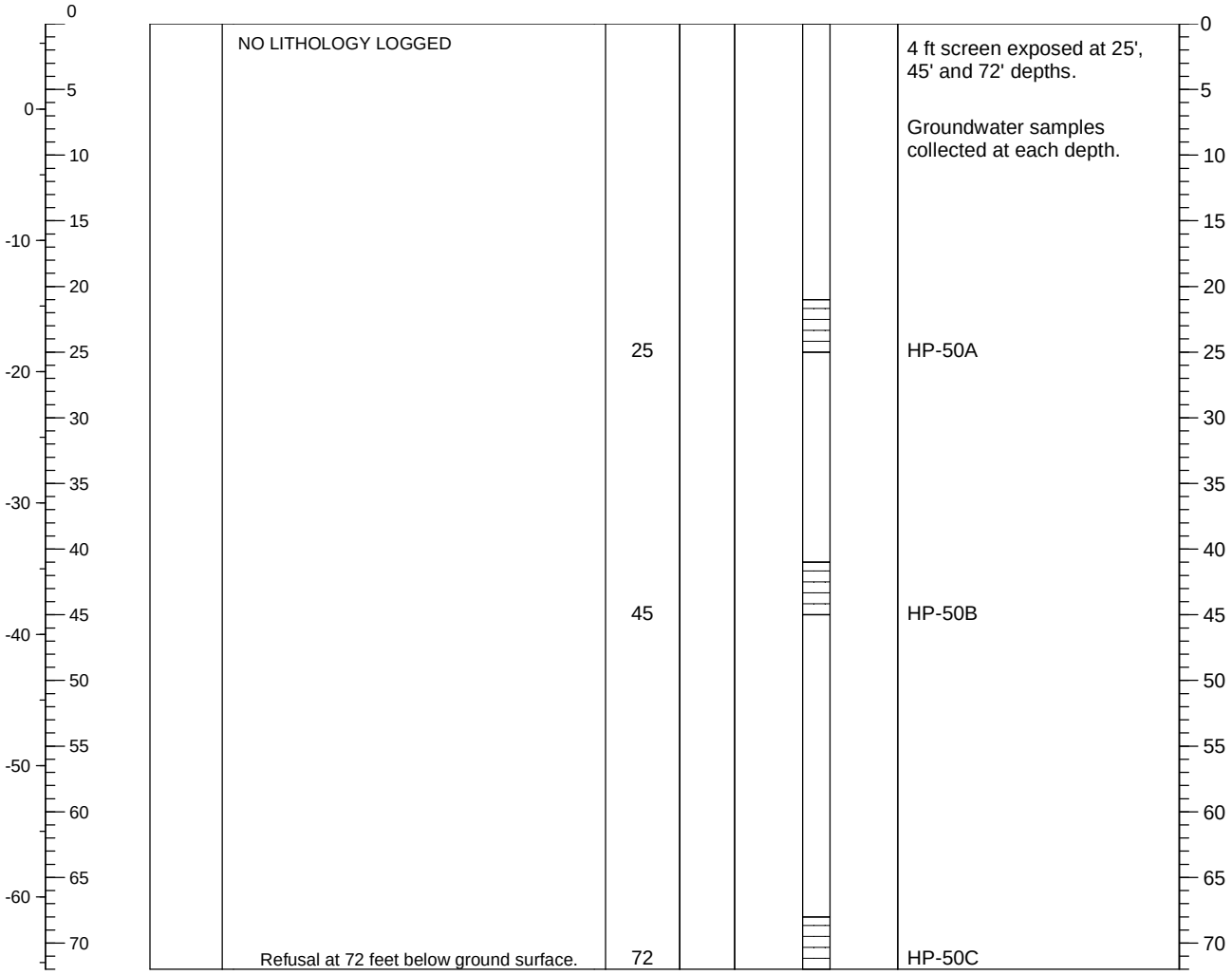
Phase III Groundwater RFI Geologic Logs

Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**HP-50**

Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **SAEDACCO** Drilling Equipment **Geoprobe**	Northing **423678.126** Easting **872002.362** Sampling Method **Grab Sample**	Ground Surface Elevation **6.49** Top of Well Casing Elevation **NA**
GA EPD Number **GAD004065520**	Drilling Method **Geoprobe**	Sampling Equipment **Screen Point Sampler**	Well Casing Diameter **2 in.**
Logged By **C. Weaver** Approved By **R. Cate**	Date Drilling Started **3/30/10**	Headspace Monitoring Device **NA**	Well Screen Interval **NA**
Driller Name **R. Hoffman** Project Number **WBS30012B1**	Date Drilling Completed **3/30/10**	Boring Depth **72** Boring Dia. **6 in.**	Well Depth **NA**

LITHOLOGY **SAMPLING DATA**

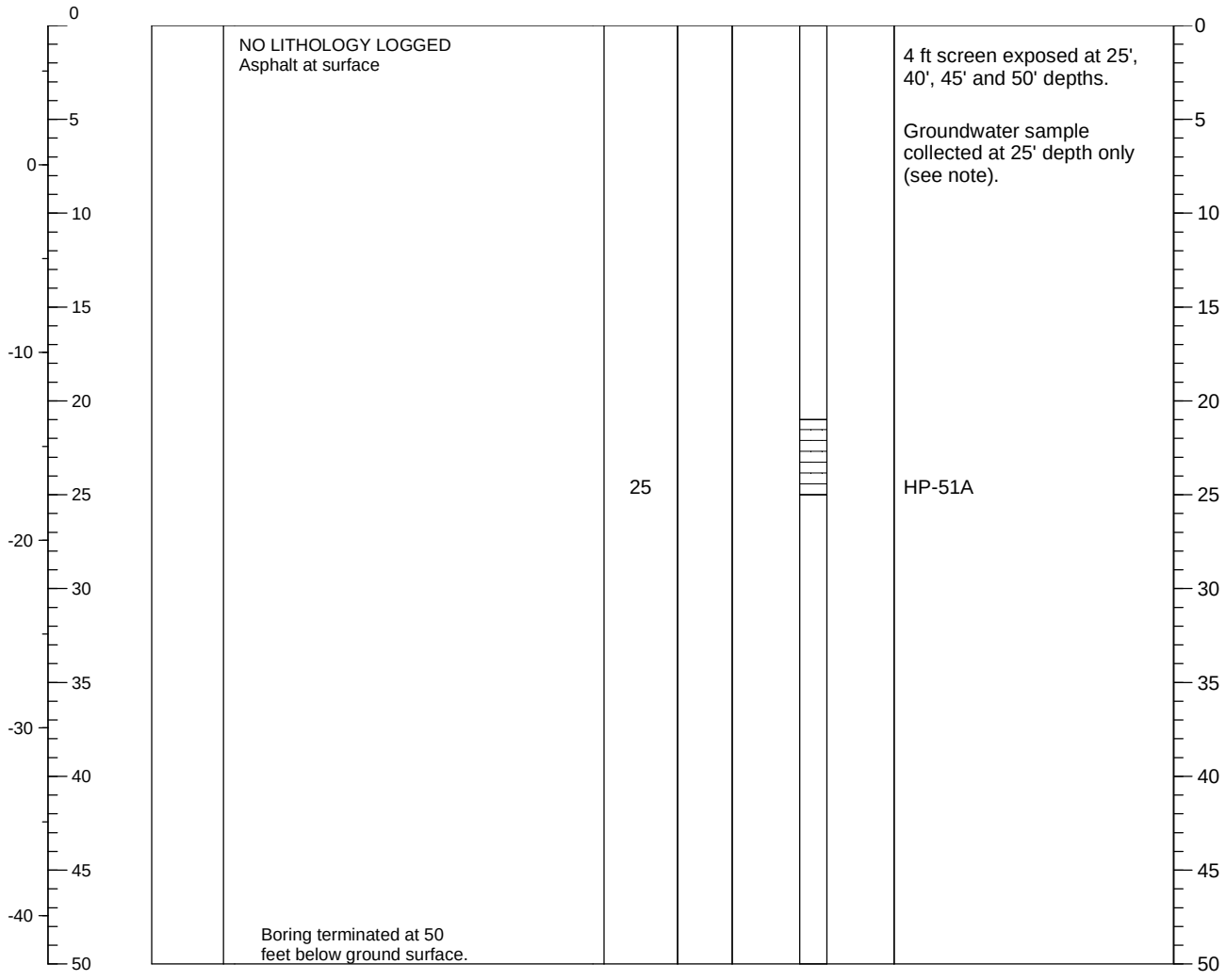
Elevation	Depth	Graphic Log	Visual Description	Sample Depth (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth



Water level in completed well

Project Name	Monitoring Well Construction Log	Well Number
Ashland Brunswick Georgia		**HP-51**

Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **SAEDACCO** Drilling Equipment **Geoprobe**	Northing **423512.685** Easting **871479.326** Sampling Method **Grab Sample**	Ground Surface Elevation **7.42** Top of Well Casing Elevation **NA**
GA EPD Number **GAD004065520**	Drilling Method **Geoprobe**	Sampling Equipment **Screen Point Sampler**	Well Casing Diameter **2 in.**
Logged By **C. Weaver** Approved By **R. Cate**	Date Drilling Started **3/29/10**	Headspace Monitoring Device **NA**	Well Screen Interval **NA**
Driller Name **R. Hoffman** Project Number **WBS30012B1**	Date Drilling Completed **3/30/10**	Boring Depth **50 ft.** Boring Dia. **6 in.**	Well Depth **NA**

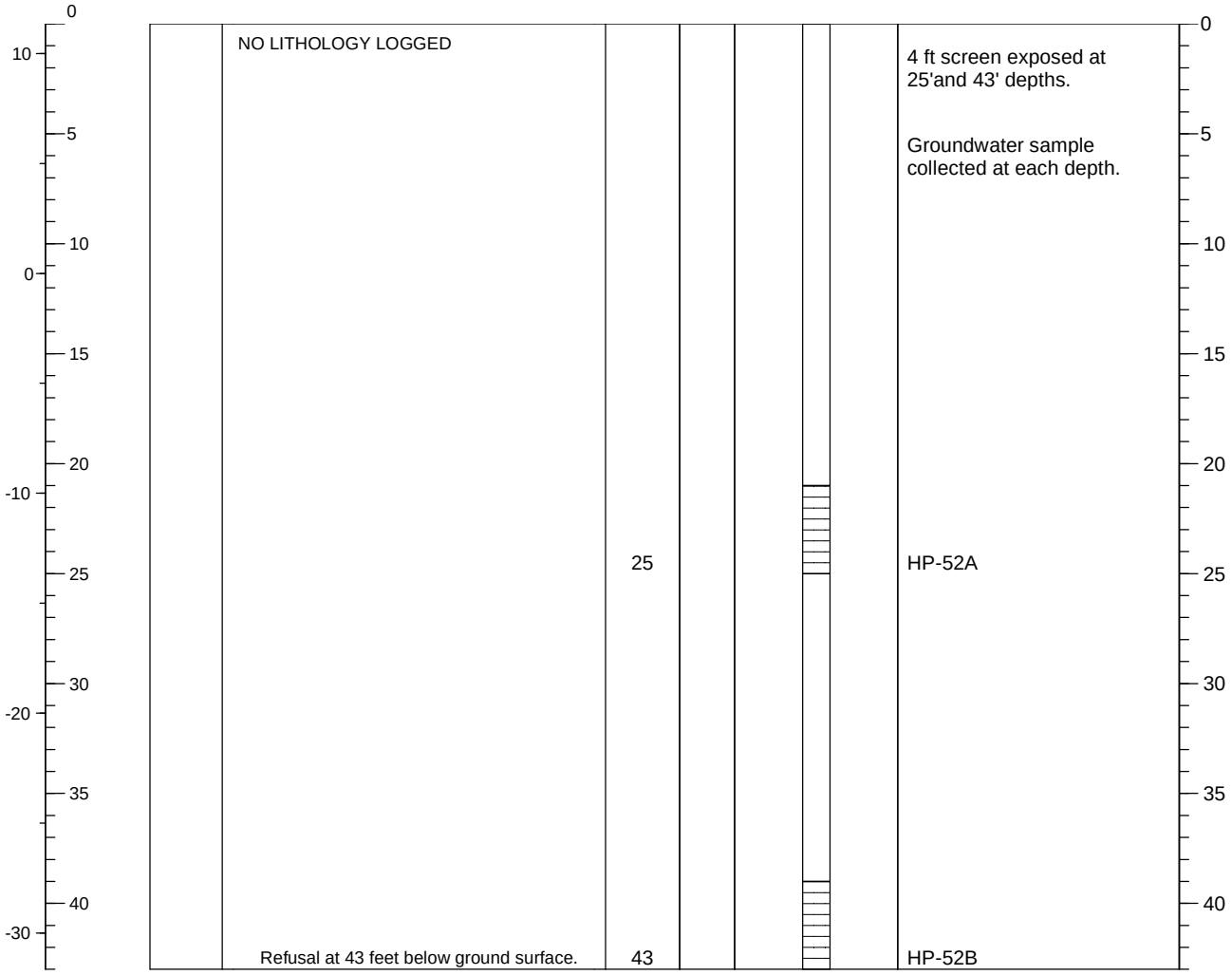


Note: At the 36-40' screen depth, no water was encountered. Screen was inserted into fine flowing sands overnight until water could accumulate. At 41-45' and 46-50' depths, screens were dry or clogged. Groundwater sample collected at the 21-25' depth only.

▼ Water level in completed well

Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**HP-52**

Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **SAEDACCO** Drilling Equipment **Geoprobe**	Northing **423505.108** Easting **869925.147** Sampling Method **Grab Sample**	Ground Surface Elevation **11.35** Top of Well Casing Elevation **NA**
GA EPD Number **GAD004065520**	Drilling Method **Geoprobe**	Sampling Equipment **Screen Point Sampler**	Well Casing Diameter **2 in.**
Logged By **C. Weaver** Approved By **R. Cate**	Date Drilling Started **3/29/10**	Headspace Monitoring Device **NA**	Well Screen Interval **NA**
Driller Name **R. Hoffman** Project Number **WBS30012B1**	Date Drilling Completed **3/29/10**	Boring Depth **43 ft.** Boring Dia. **6 in.**	Well Depth **NA**



Water level in completed well

Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**HP-53**

Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **SAEDACCO** Drilling Equipment **Geoprobe**	Northing **NA** Easting **NA** Sampling Method **Grab Sample**	Ground Surface Elevation **NA** Top of Well Casing Elevation **NA**
GA EPD Number **GAD004065520**	Drilling Method **Geoprobe**	Sampling Equipment **Screen Point Sampler**	Well Casing Diameter **2 in.**
Logged By **C. Weaver** Approved By **R. Cate**	Date Drilling Started **3/29/10**	Headspace Monitoring Device **NA**	Well Screen Interval **NA**
Driller Name **R. Hoffman** Project Number **WBS30012B1**	Date Drilling Completed **3/29/10**	Boring Depth **47 ft.** Boring Dia. **6 in.**	Well Depth **NA**

LITHOLOGY **SAMPLING DATA**

Elevation	Depth	Graphic Log	Visual Description	Sample Depth (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
0	0		NO LITHOLOGY LOGGED				4 ft screen exposed at 25'and 43' depths. Groundwater sample collected at each depth.	0
	5							5
-10	10							10
	15							15
-20	20							20
	25			25			HP-53A	25
-30	30							30
	35							35
-40	40			43			HP-53B	40
	45		Refusal at 47 feet below ground surface.					45

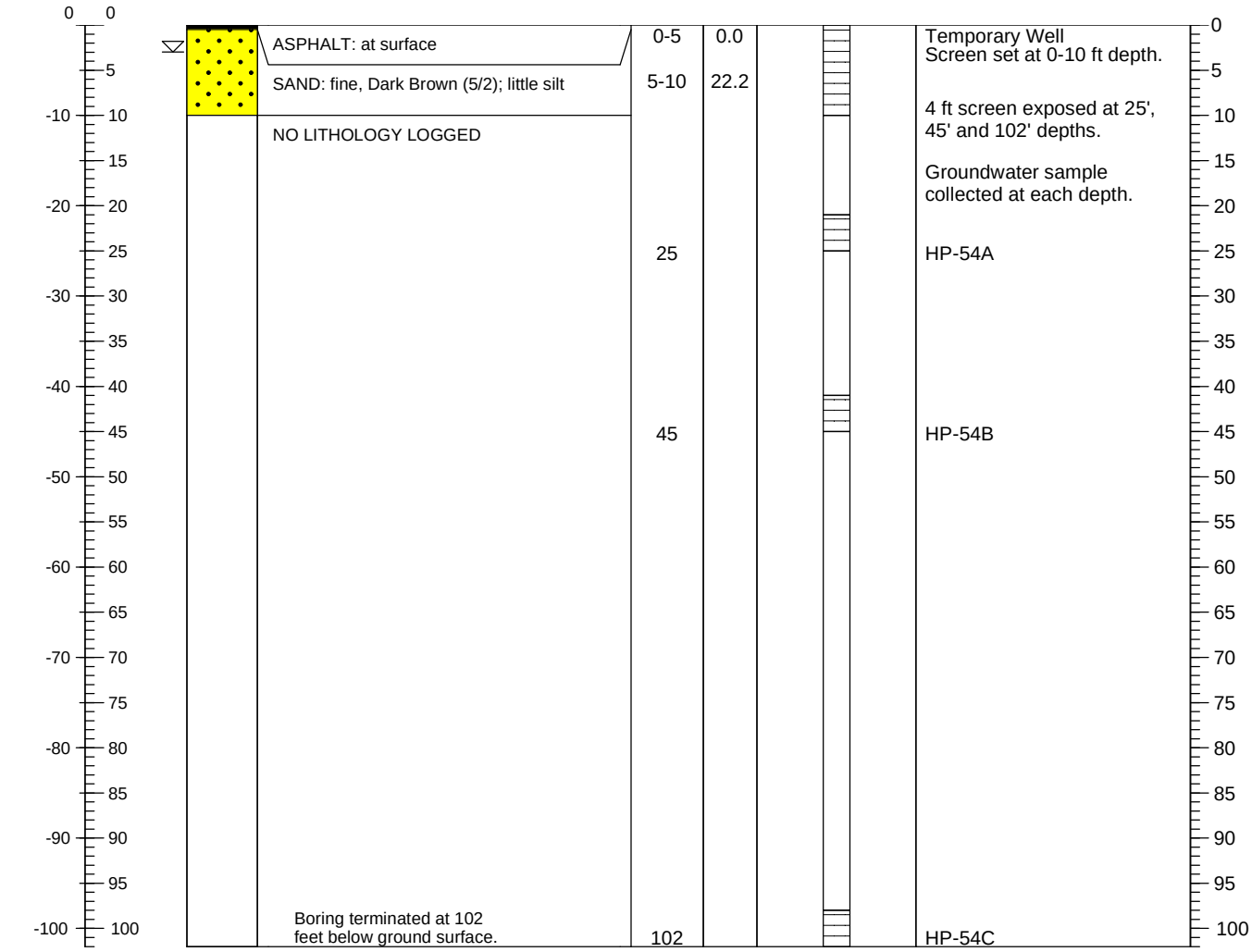
▼ Water level in completed well

anteagroup
Xinogen

Project Name	Monitoring Well Construction Log	Well Number
Ashland Brunswick Georgia		**HP-54**

Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **SAEDACCO** Drilling Equipment **Geoprobe**	Northing **NA** Easting **NA** Sampling Method **Grab Sample**	Ground Surface Elevation **NA** Top of Well Casing Elevation **NA**
GA EPD Number **GAD004065520**	Drilling Method **Geoprobe**	Sampling Equipment **Screen Point Sampler**	Well Casing Diameter **2 in.**
Logged By **C. Weaver** Approved By **R. Cate**	Date Drilling Started **3/31/10**	Headspace Monitoring Device **NA**	Well Screen Interval **0-10 ft.**
Driller Name **R. Hoffman** Project Number **WBS30012B1**	Date Drilling Completed **3/31/10**	Boring Depth **102 ft.** Boring Dia. **6 in.**	Well Depth **NA**

LITHOLOGY **SAMPLING DATA**



Temporary well set to determine the presence of free product.

Water level in completed well

Project Name	Monitoring Well Construction Log	Well Number
Ashland Brunswick Georgia		**HP-55**

Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **SAEDACCO** Drilling Equipment **Geoprobe**	Northing **425003.638** Easting **872123.277** Sampling Method **Grab Sample**	Ground Surface Elevation **7.02** Top of Well Casing Elevation **NA**
GA EPD Number **GAD004065520**	Drilling Method **Geoprobe**	Sampling Equipment **Screen Point Sampler**	Well Casing Diameter **2 in.**
Logged By **C. Weaver** Approved By **R. Cate**	Date Drilling Started **3/30/10**	Headspace Monitoring Device **NA**	Well Screen Interval
Driller Name **R. Hoffman** Project Number **WBS30012B1**	Date Drilling Completed **3/31/10**	Boring Depth **95 ft.** Boring Dia. **6 in.**	Well Depth **NA**

LITHOLOGY **SAMPLING DATA**

Elevation	Depth	Graphic Log	Visual Description	Sample Depth (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
0 to -80	0 to 95		NO LITHOLOGY LOGGED Boring terminated at 95 feet below ground surface.	25 45 95			4 ft screen exposed at 25', 45' and 95' depths. Groundwater sample collected at each depth. HP-55A HP-55B HP-55C	0 to 95

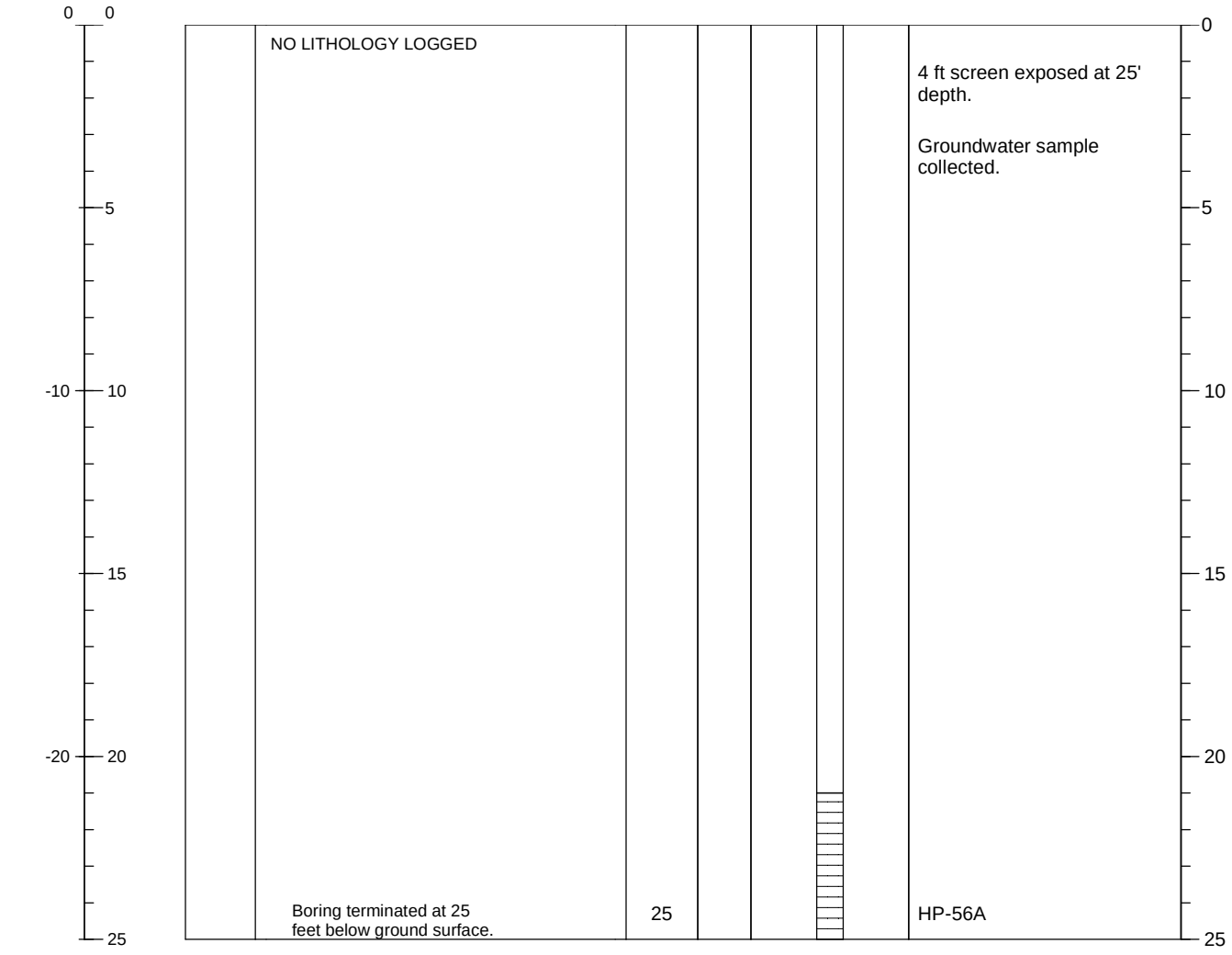
Note: At the 91-95' screen depth, water was slow to produce. Screen was inserted into fine flowing sands overnight until water could accumulate. Groundwater sample was collected 3/31/10.

▼ Water level in completed well

Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**HP-56**

Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **SAEDACCO** Drilling Equipment **Geoprobe**	Northing **NA** Easting **NA** Sampling Method **Grab Sample**	Ground Surface Elevation **NA** Top of Well Casing Elevation **NA**
GA EPD Number **GAD004065520**	Drilling Method **Geoprobe**	Sampling Equipment **Screen Point Sampler**	Well Casing Diameter **2 in.**
Logged By **C. Weaver** Approved By **R. Cate**	Date Drilling Started **3/30/10**	Headspace Monitoring Device **NA**	Well Screen Interval **NA**
Driller Name **R. Hoffman** Project Number **WBS30012B1**	Date Drilling Completed **3/30/10**	Boring Depth **25 ft.** Boring Dia. **6 in.**	Well Depth **NA**

LITHOLOGY **SAMPLING DATA**



Water level in completed well

Project Name	Monitoring Well Construction Log	Well Number
Ashland Brunswick Georgia		**HP-57**

Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **SAEDACCO** Drilling Equipment **Geoprobe**	Northing **424572.446** Easting **870715.490** Sampling Method **Grab Sample**	Ground Surface Elevation **9.23** Top of Well Casing Elevation **NA**
GA EPD Number **GAD004065520**	Drilling Method **Geoprobe**	Sampling Equipment **Screen Point Sampler**	Well Casing Diameter **2 in.**
Logged By **C. Weaver** Approved By **R. Cate**	Date Drilling Started **3/31/10**	Headspace Monitoring Device **NA**	Well Screen Interval **0-12 ft.**
Driller Name **R. Hoffman** Project Number **WBS30012B1**	Date Drilling Completed **4/1/10**	Boring Depth **82 ft.** Boring Dia. **6 in.**	Well Depth **NA**

LITHOLOGY **SAMPLING DATA**

Elevation	Depth	Graphic Log	Visual Description	Sample Depth (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
0	0		GRAVEL: at surface	0-5	461		Temporary Well Screen set at 0-12 ft depth.	0
	5		SAND: fine, Dark Brown (5/2); little silt; wet				HP-57-TW	5
0	10			12			4 ft screen exposed at 25', 45' and 82' depths.	10
	15		NO LITHOLOGY LOGGED				Groundwater sample collected at each depth.	15
-10	20							20
	25			25			HP-57A	25
-20	30							30
	35							35
-30	40							40
	45			45			HP-57B	45
-40	50							50
	55							55
-50	60							60
	65							65
-60	70							70
	75							75
-70	80		Refusal at 82 feet below ground surface.	82			HP-57C	80

Temporary well set to determine the presence of free product. Oil NAPL discovered on 4/1/10 @ 08:53.

▼ Water level in completed well

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Project Name	Monitoring Well Construction Log	Well Number
Ashland Brunswick Georgia		**HP-58**

Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **SAEDACCO** Drilling Equipment **Geoprobe**	Northing **424230.526** Easting **870735.373** Sampling Method **Grab Sample**	Ground Surface Elevation **10.04** Top of Well Casing Elevation **NA**
GA EPD Number **GAD004065520**	Drilling Method **Geoprobe**	Sampling Equipment **Screen Point Sampler**	Well Casing Diameter **2 in.**
Logged By **C. Weaver** Approved By **R. Cate**	Date Drilling Started **3/31/10**	Headspace Monitoring Device **NA**	Well Screen Interval **0-12 ft.**
Driller Name **R. Hoffman** Project Number **WBS30012B1**	Date Drilling Completed **4/1/10**	Boring Depth **75 ft.** Boring Dia. **6 in.**	Well Depth **NA**

LITHOLOGY **SAMPLING DATA**

Elevation	Depth	Graphic Log	Visual Description	Sample Depth (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
10 to -60	0 to 75		GRAVEL: at surface SAND: fine, Dark Brown (5/2); trace silt NO LITHOLOGY LOGGED Refusal at 75 feet below ground surface.	0-5 25 45 75	219		Temporary Well Screen set at 0-12 ft depth. 4 ft screen exposed at 25', 45' and 75' depths. Groundwater sample collected at each depth. HP-58A HP-58B HP-58C	0 to 75

Temporary well set to determine the presence of free product.

▼ Water level in completed well

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Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**MW-11DD**
Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Roto Sonic**	Northing **424866.69** Easting **872461.24** Well Screen Interval **81-91 ft.**	Ground Surface Elevation **5.20** Top of Well Casing Elevation **8.23**
GA EPD Number **GAD004065520**	Drilling Method **Roto Sonic**	Well Screen Slot Size **0.01 inch**	Total Well Depth **91 ft.**
Logged By **H. Hight** Approved By **C. Weaver**	Date Drilling Started **7/10/14**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **95 ft.** Boring Dia. **6 in.**
Driller Name **A. Hak** Project Number **WBS2014B2**	Date Drilling Completed **7/11/14**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

LITHOLOGY **SAMPLING DATA**

Elevation	Depth	Graphic Log	Visual Description	USCS	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
0	0		(0.0- 0.3) TOPSOIL: Surface Grass/Topsoil / Black Sand, fine grained, roots		0-5	2.4		Protective Cover: Stick Up/Well Pad: 3'x3'	0
			(0.3- 5.0) SAND: Black to dark brown fine sand, trace silt, loose, slightly moist 0 - 5 Post-hole					Cement Grout: 0-77'	
0	5		(5.0- 7.5) SAND: Brown-light brown, fine sand, loose	SM	5-10	2.3		Well Casing: 0-81'	5
			(7.5- 10.0) SAND: Light gray fine sand, loose, trace silt, loose	SM				Well Diameter: 2"	
	10		(10.0- 12.0) SILTY SAND: Gray silty fine sand, trace clay	SM	10-15	3.2			10
			(12.0- 13.0) SILTY SAND: Dark gray silty fine sand, angular shell fragments	SM					
			(13.0- 15.0) SILTY SAND: Gray silty fine sand, loose	SM					
-10	15		(15.0- 16.0) SAND: Gray fine sand, trace silt, loose	SM	15-20	4.3			15
			(16.0- 17.0) SAND: Fine-coarse sand, angular shell fragments, loose	SM					
			(17.0- 20.0) SILTY SAND: Gray fine sand, some silt, trace clay, small angular shell fragments, loose	CL					
	20		(20.0- 21.0) SANDY CLAY: Medium gray sandy clay, small angular shell fragments	CL	20-25	2.5			20
			(21.0- 23.0) SANDY CLAY: Medium gray clay, some fine sand	CL					
-20	25		(23.0- 25.0) SANDY CLAY: Gray sandy clay, small angular shell fragments						25

▽ Water level in completed well

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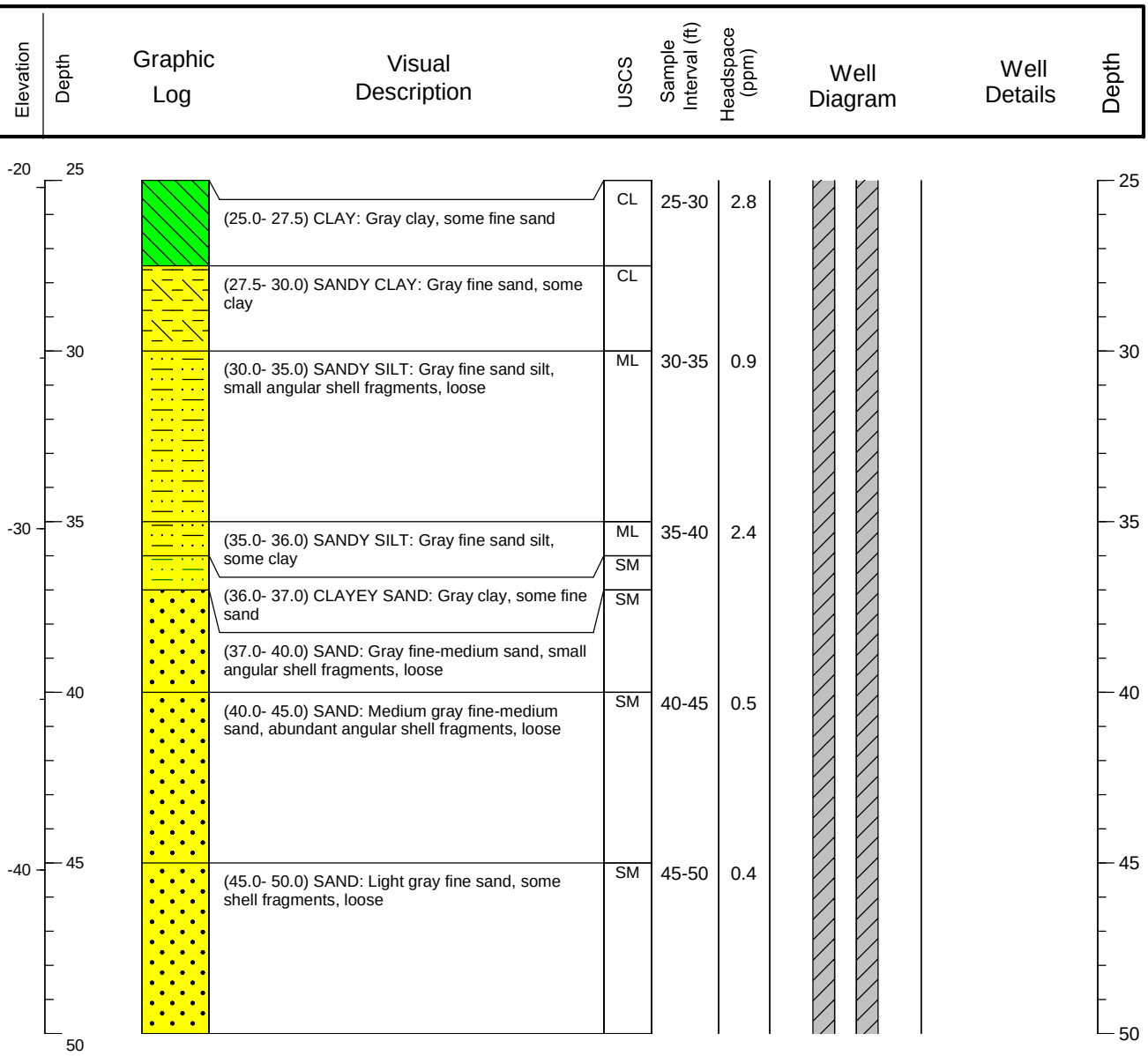
Project Name	Monitoring Well Construction Log	Well Number
Ashland Brunswick Georgia		**MW-11DD**

Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Roto Sonic**	Northing **424866.69** Easting **872461.24** Well Screen Interval **81-91 ft.**	Ground Surface Elevation **5.20** Top of Well Casing Elevation **8.23**
GA EPD Number **GAD004065520**	Drilling Method **Roto Sonic**	Well Screen Slot Size **0.01 inch**	Total Well Depth **91 ft.**
Logged By **H. Hight** Approved By **C. Weaver**	Date Drilling Started **7/10/14**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **95 ft.** Boring Dia. **6 in.**
Driller Name **A. Hak** Project Number **WBS2014B2**	Date Drilling Completed **7/11/14**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**



▽ Water level in completed well

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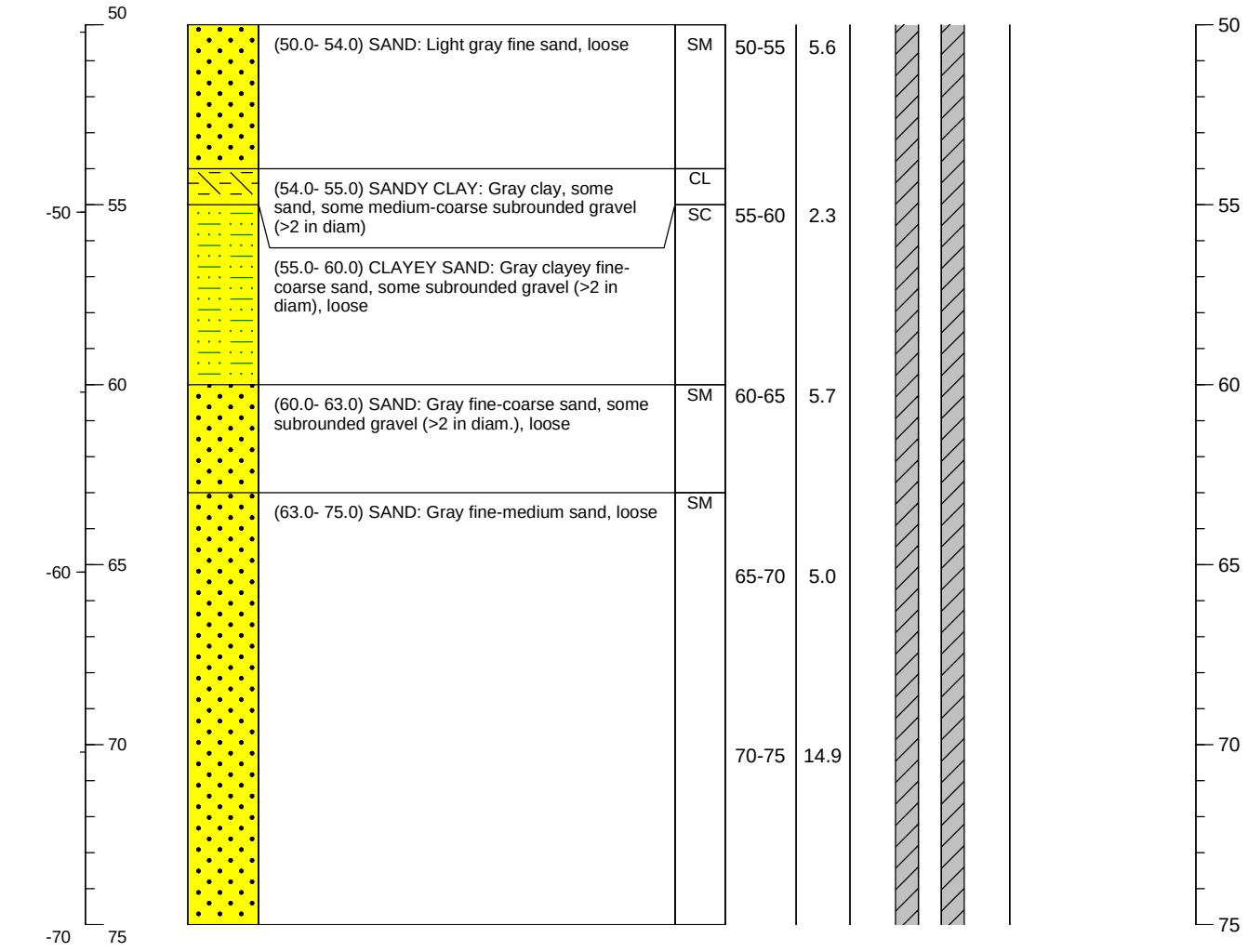
Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**MW-11DD**
Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Roto Sonic**	Northing **424866.69** Easting **872461.24** Well Screen Interval **81-91 ft.**	Ground Surface Elevation **5.20** Top of Well Casing Elevation **8.23**
GA EPD Number **GAD004065520**	Drilling Method **Roto Sonic**	Well Screen Slot Size **0.01 inch**	Total Well Depth **91 ft.**
Logged By **H. Hight** Approved By **C. Weaver**	Date Drilling Started **7/10/14**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **95 ft.** Boring Dia. **6 in.**
Driller Name **A. Hak** Project Number **WBS2014B2**	Date Drilling Completed **7/11/14**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**



▽ Water level in completed well

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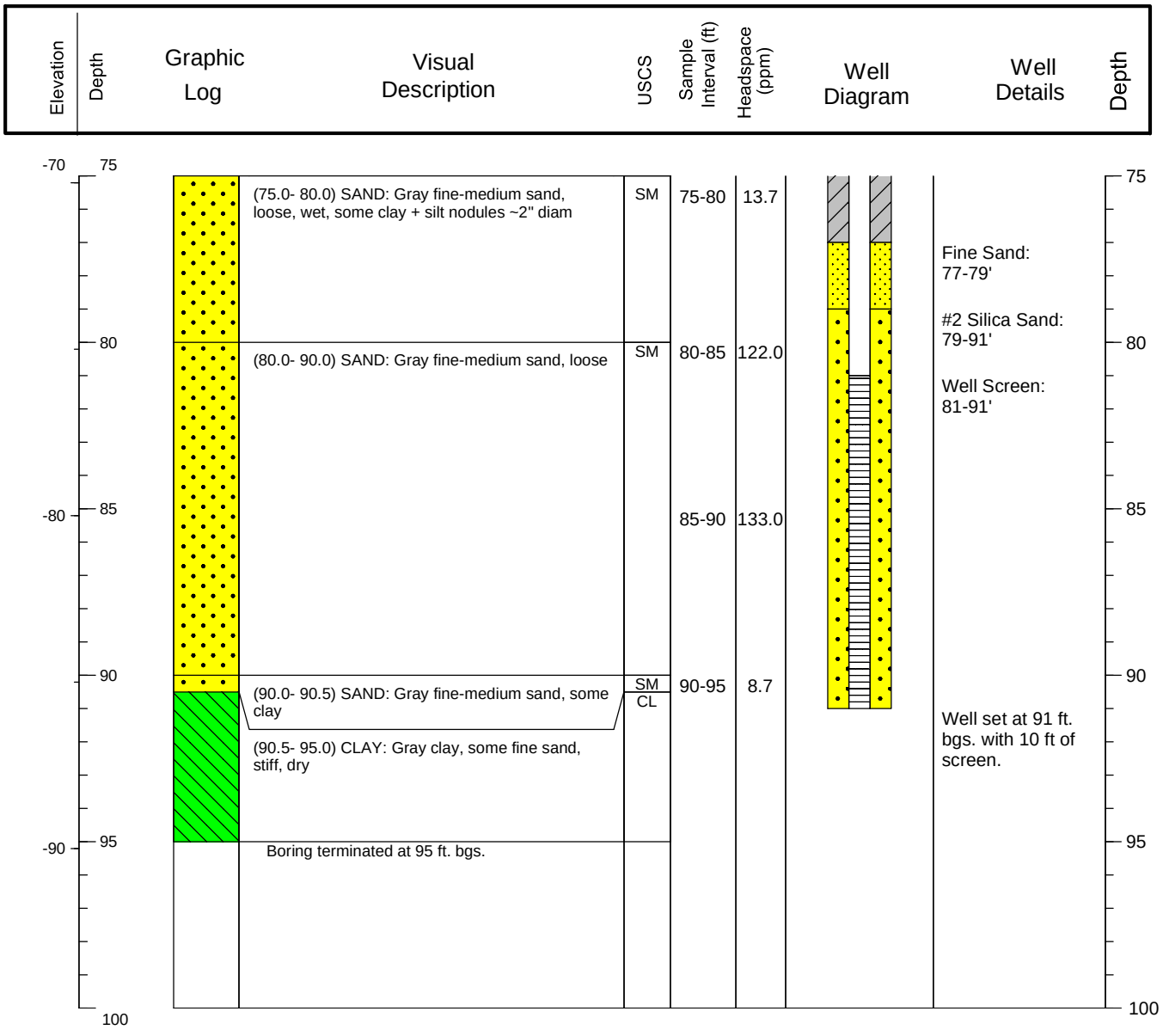
Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**MW-11DD**
Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Roto Sonic**	Northing **424866.69** Easting **872461.24** Well Screen Interval **81-91 ft.**	Ground Surface Elevation **5.20** Top of Well Casing Elevation **8.23**
GA EPD Number **GAD004065520**	Drilling Method **Roto Sonic**	Well Screen Slot Size **0.01 inch**	Total Well Depth **91 ft.**
Logged By **H. Hight** Approved By **C. Weaver**	Date Drilling Started **7/10/14**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **95 ft.** Boring Dia. **6 in.**
Driller Name **A. Hak** Project Number **WBS2014B2**	Date Drilling Completed **7/11/14**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**



▽ Water level in completed well

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Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**MW-37S**

Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Rousie SR1 w/Detric Head**	Northing **427021.360** Easting **867926.180** Well Screen Interval **15-25 ft**	Ground Surface Elevation **14.28** Top of Well Casing Elevation **17.15**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **25 ft**
Logged By **R. McLain** Approved By **R. Cate**	Date Drilling Started **3/17/10**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **25 ft** Boring Dia. **6 in.**
Driller Name **B. Niles** Project Number **WBS30012B1**	Date Drilling Completed **3/17/10**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

LITHOLOGY **SAMPLING DATA**

Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
10	0		(0.0- 2.0) SAND: medium, Dusty Brown (5YR 2/2), well sorted, angular; trace gravel; moist 0 - 5 Post-hole	0-2	0.0		Protective Cover: Stick Up/Well Pad: 3'x3'	0
			(2.0- 4.0) CEMENT	2-4	0.0		Bentonite/Cement: 0-11'	
	5		(4.0- 6.0) SAND: medium, Pale Brown (5 YR 2/2), well sorted, rounded, loose; trace fine sand	4-6	0.0		Bentonite: 11-13'	5
			(6.0- 8.0) SAND: fine, Dusty Brown (5 YR 2/2), rounded, loose; trace medium (grain) sand	6-8	0.0		#2 Silica Sand: 13-25'	
			(8.0- 10.0) SAND: fine, Moderate Brown (3/4), rounded, loose; some medium sand	8-10	0.0		Well Casing: 0-15'	
	10		(10.0- 15.0) SAND: fine, Moderate Brown (4/2), rounded, loose	10-12	0.0		Well Screen: 15-25'	10
0				12-14	0.0		Well Diameter: 2"	
	15		(15.0- 20.0) SAND: very fine, Medum Gray (N5); trace shells; saturated	14-16	0.0			15
				16-18	0.0			
				18-20	0.0			
	20		(20.0- 25.0) SAND: very fine, Light-Medium Gray (N6); some shells; saturated	20-25	0.0			20
-10	25						Boring terminated at 25 feet below ground surface.	25

Water level in completed well

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Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**MW-37I**

Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Rousie SR1 w/Detric Head**	Northing **427022.200** Easting **867920.710** Well Screen Interval **60-75 ft**	Ground Surface Elevation **14.17** Top of Well Casing Elevation **16.91**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **75 ft**
Logged By **R. McLain** Approved By **R. Cate**	Date Drilling Started **3/17/10**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **80 ft** Boring Dia. **6 in.**
Driller Name **B. Niles** Project Number **WBS30012B1**	Date Drilling Completed **3/19/10**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

LITHOLOGY **SAMPLING DATA**

Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
10	0		(0.0- 2.0) SAND: medium, Dusty Brown (5YR 2/2), well sorted, angular; trace gravel; moist 0 - 5 Post-hole	0-2	0.0		Protective Cover: Stick Up/Well Pad: 3'x3'	0
			(2.0- 4.0) CEMENT	2-4	0.0		Bentonite/Cement: 0-56'	
5	5		(4.0- 6.0) SAND: medium, Pale Brown (5 YR 2/2), well sorted, rounded, loose; trace fine sand	4-6	0.0		Bentonite: 56-58'	5
			(6.0- 8.0) SAND: fine, Dusty Brown (5 YR 2/2), rounded, loose; trace medium (grain) sand	6-8	0.0		#2 Silica Sand: 58-75'	
			(8.0- 10.0) SAND: fine, Moderate Brown (3/4), rounded, loose; some medium sand	8-10	0.0		Well Casing: 0-60'	
0	10		(10.0- 15.0) SAND: fine, Moderate Brown (4/2), rounded, loose	10-12	0.0		Well Screen: 60-75'	10
				12-14	0.0		Well Diameter: 2"	
	15			14-16	0.0		20/30 Sand Backfill	15
			(15.0- 20.0) SAND: very fine, Medum Gray (N5); trace shells; saturated	16-18	0.0			
				18-20	0.0			
-10	20		(20.0- 35.0) SAND: very fine, Light-Medium Gray (N6); some shells; saturated	20-25	0.0			20
	25			25-30	0.0			25

Water level in completed well

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Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**MW-37I**

Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Rousie SR1 w/Detric Head**	Northing **427022.200** Easting **867920.710** Well Screen Interval **60-75 ft**	Ground Surface Elevation **14.17** Top of Well Casing Elevation **16.91**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **75 ft**
Logged By **R. McLain** Approved By **R. Cate**	Date Drilling Started **3/17/10**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **80 ft** Boring Dia. **6 in.**
Driller Name **B. Niles** Project Number **WBS30012B1**	Date Drilling Completed **3/19/10**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

LITHOLOGY **SAMPLING DATA**

Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
	30			30-35	0.0			30
-20	35		(35.0- 40.0) SAND: fine-medium, Medium Gray (N5), rounded, loose; trace shell Hash	35-40	0.0			35
	40		(40.0- 45.0) SAND: medium-coarse, Medium Gray (N5), poorly sorted, well rounded; shell fragments 2-3 mm; moist	40-45	0.0			40
-30	45		(45.0- 50.0) CLAYEY SAND: medium, Medium-Light Gray, well sorted, rounded; wet	45-50	0.0			45
	50		(50.0- 53.0) CLAYEY SAND: fine-medium, Medium-Dark Gray (N4), poorly sorted, rounded; trace shells	50-55	0.0			50
-40			(53.0- 55.0) CLAYEY SILT: fine, Light Gray (N6), well rounded, hard; 15-20% gravel					

▼ Water level in completed well

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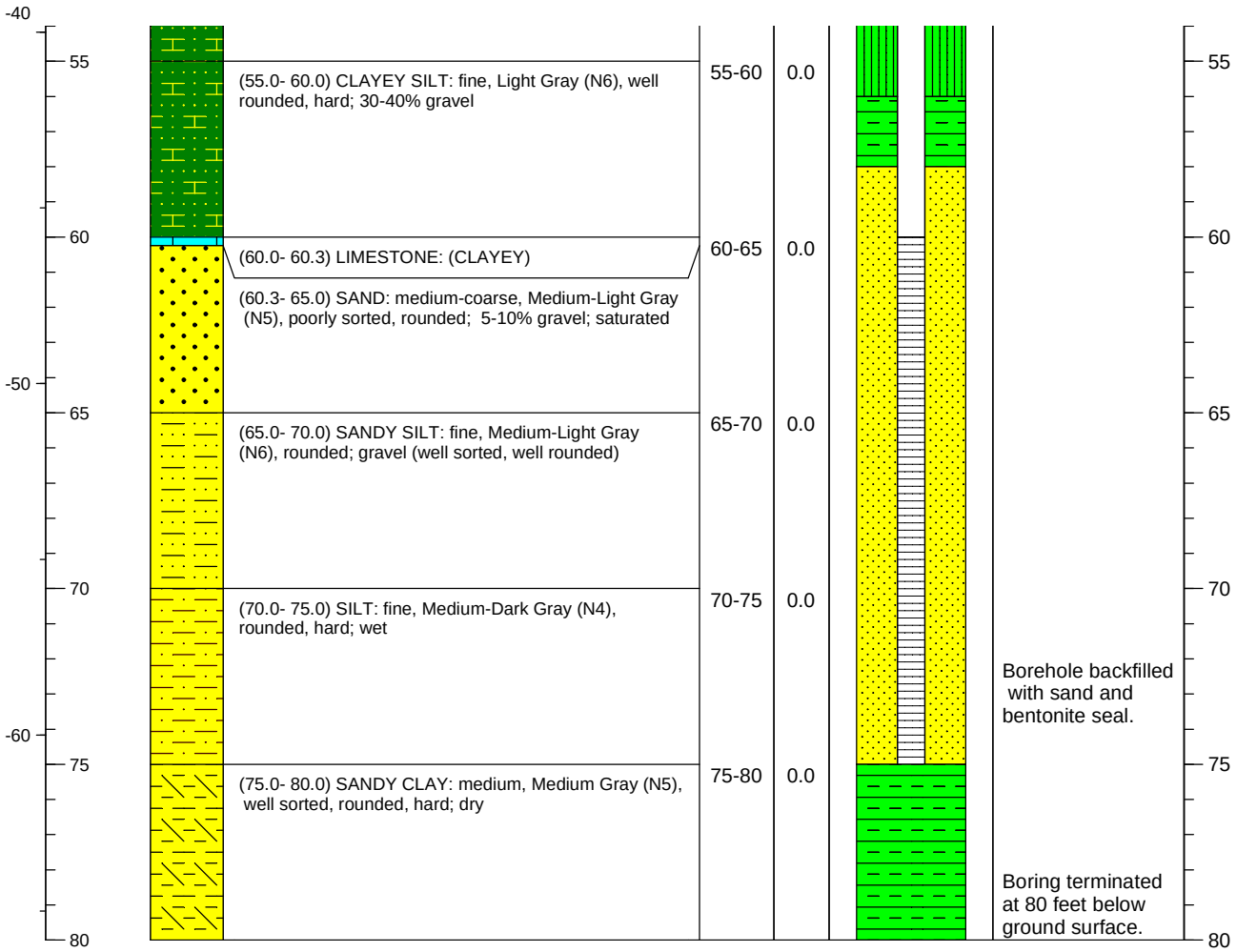
Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**MW-37I**
Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Rousie SR1 w/Detric Head**	Northing **427022.200** Easting **867920.710** Well Screen Interval **60-75 ft**	Ground Surface Elevation **14.17** Top of Well Casing Elevation **16.91**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **75 ft**
Logged By **R. McLain** Approved By **R. Cate**	Date Drilling Started **3/17/10**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **80 ft** Boring Dia. **6 in.**
Driller Name **B. Niles** Project Number **WBS30012B1**	Date Drilling Completed **3/19/10**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

LITHOLOGY **SAMPLING DATA**

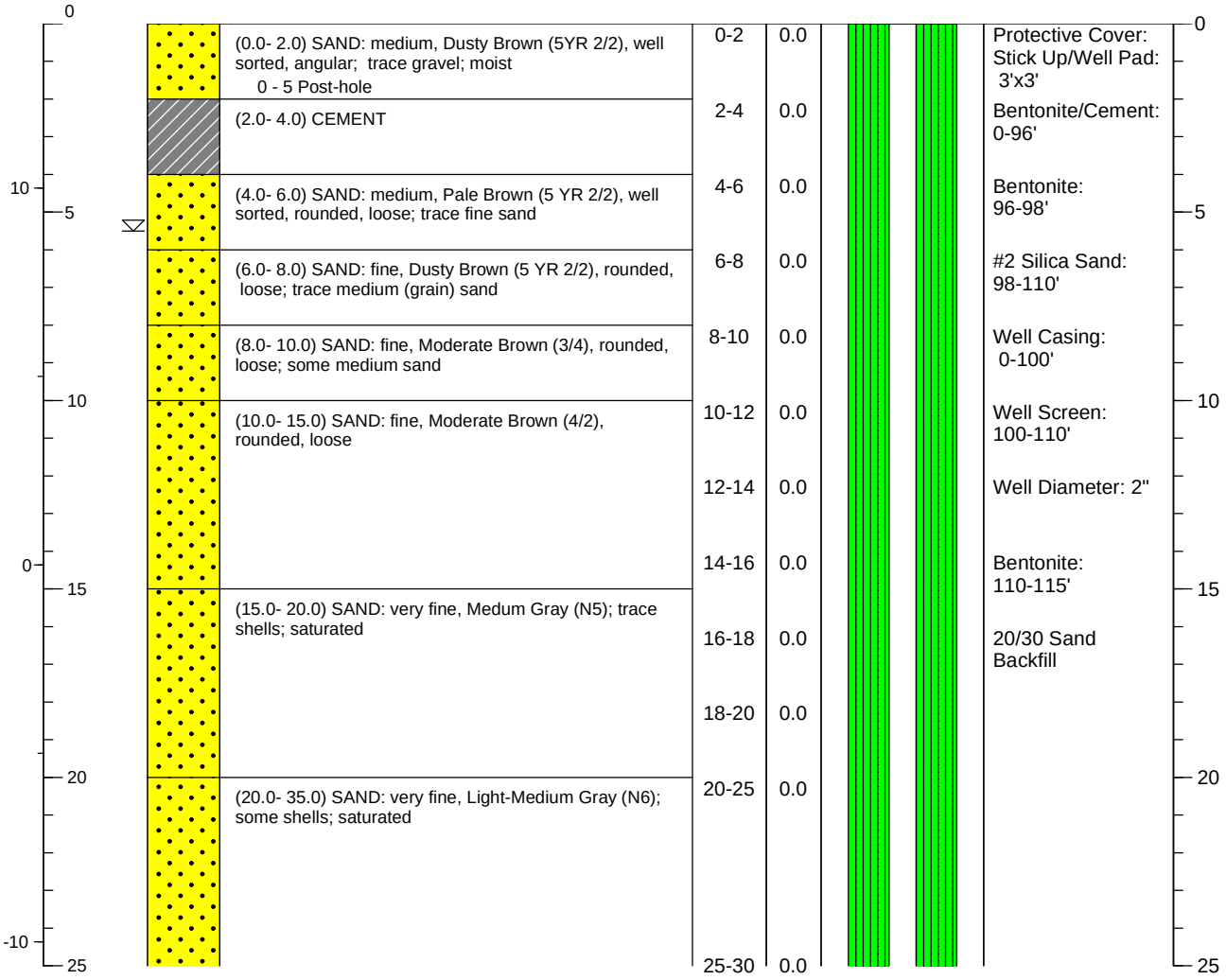


Water level in completed well

Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**MW-37D**

Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Rousie SR1 w/Detric Head**	Northing **427022.580** Easting **867917.230** Well Screen Interval **100-110 ft**	Ground Surface Elevation **14.36** Top of Well Casing Elevation **16.81**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **110 ft**
Logged By **R. McLain** Approved By **R. Cate**	Date Drilling Started **3/19/10**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **150 ft** Boring Dia. **6 in.**
Driller Name **B. Niles** Project Number **WBS30012B1**	Date Drilling Completed **3/23/10**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

LITHOLOGY **SAMPLING DATA**

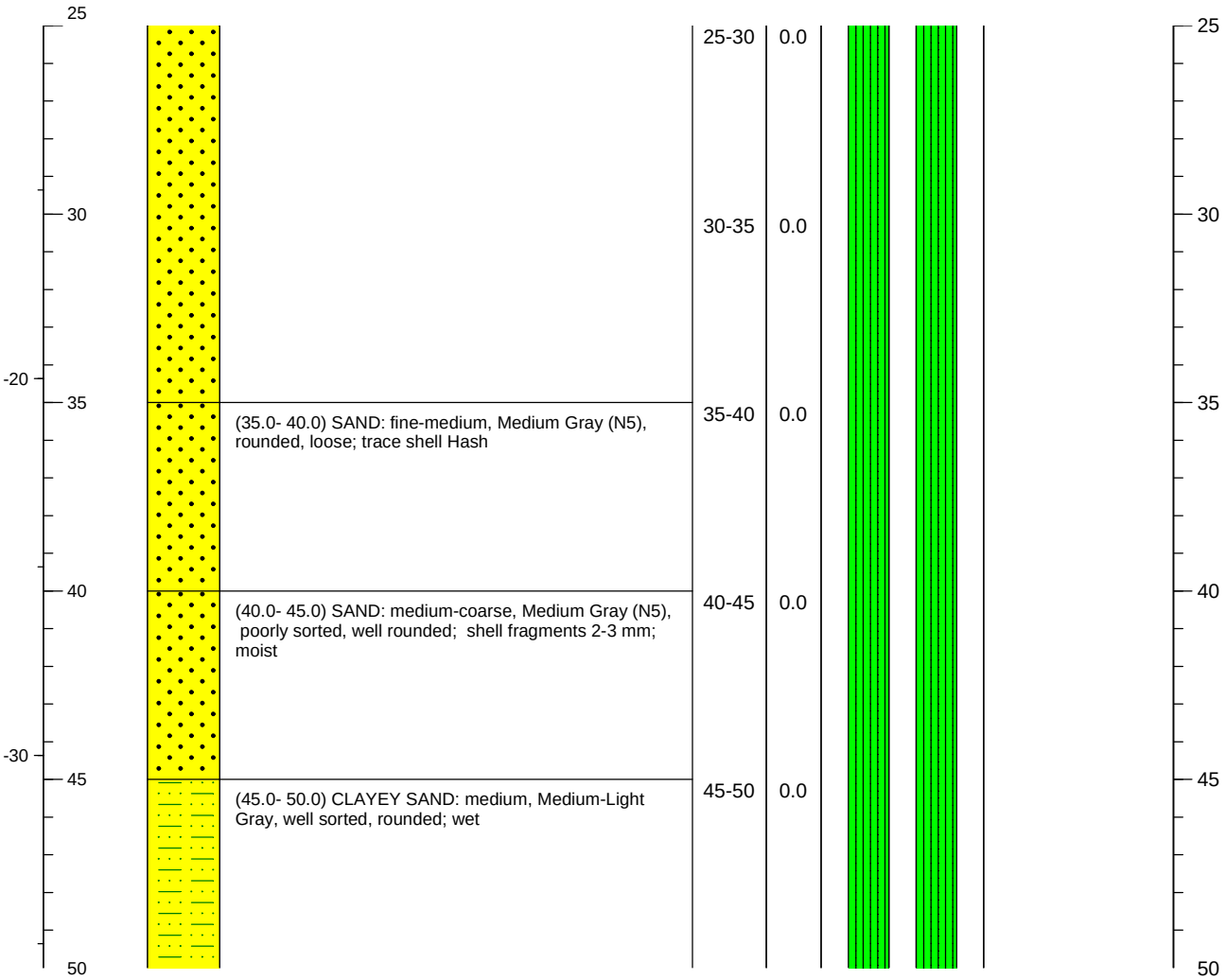


Water level in completed well

Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**MW-37D**

Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Rousie SR1 w/Detric Head**	Northing **427022.580** Easting **867917.230** Well Screen Interval **100-110 ft**	Ground Surface Elevation **14.36** Top of Well Casing Elevation **16.81**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **110 ft**
Logged By **R. McLain** Approved By **R. Cate**	Date Drilling Started **3/19/10**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **150 ft** Boring Dia. **6 in.**
Driller Name **B. Niles** Project Number **WBS30012B1**	Date Drilling Completed **3/23/10**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

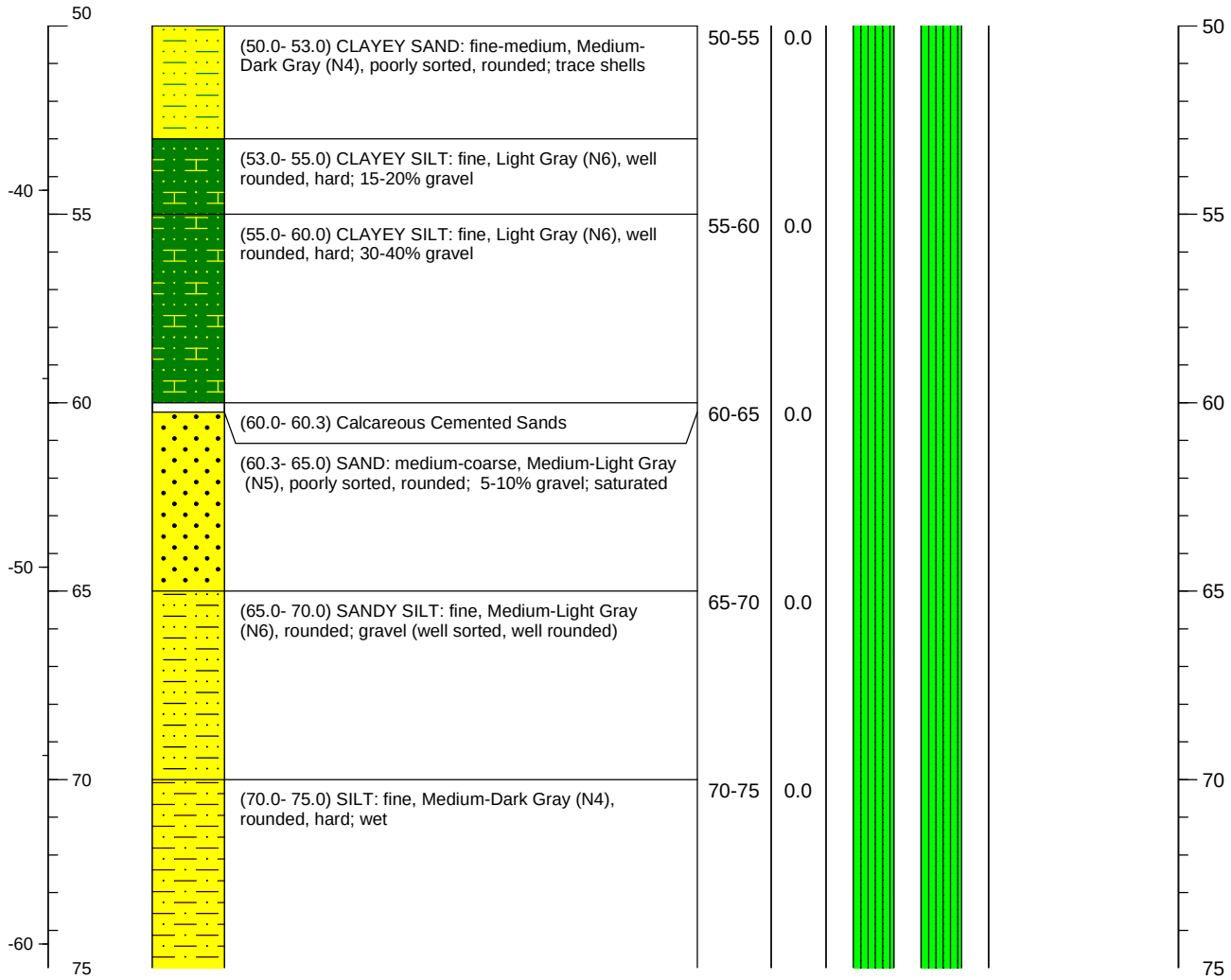
LITHOLOGY **SAMPLING DATA**



Water level in completed well

Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**MW-37D**
Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Rousie SR1 w/Detric Head**	Northing **427022.580** Easting **867917.230** Well Screen Interval **100-110 ft**	Ground Surface Elevation **14.36** Top of Well Casing Elevation **16.81**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **110 ft**
Logged By **R. McLain** Approved By **R. Cate**	Date Drilling Started **3/19/10**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **150 ft** Boring Dia. **6 in.**
Driller Name **B. Niles** Project Number **WBS30012B1**	Date Drilling Completed **3/23/10**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

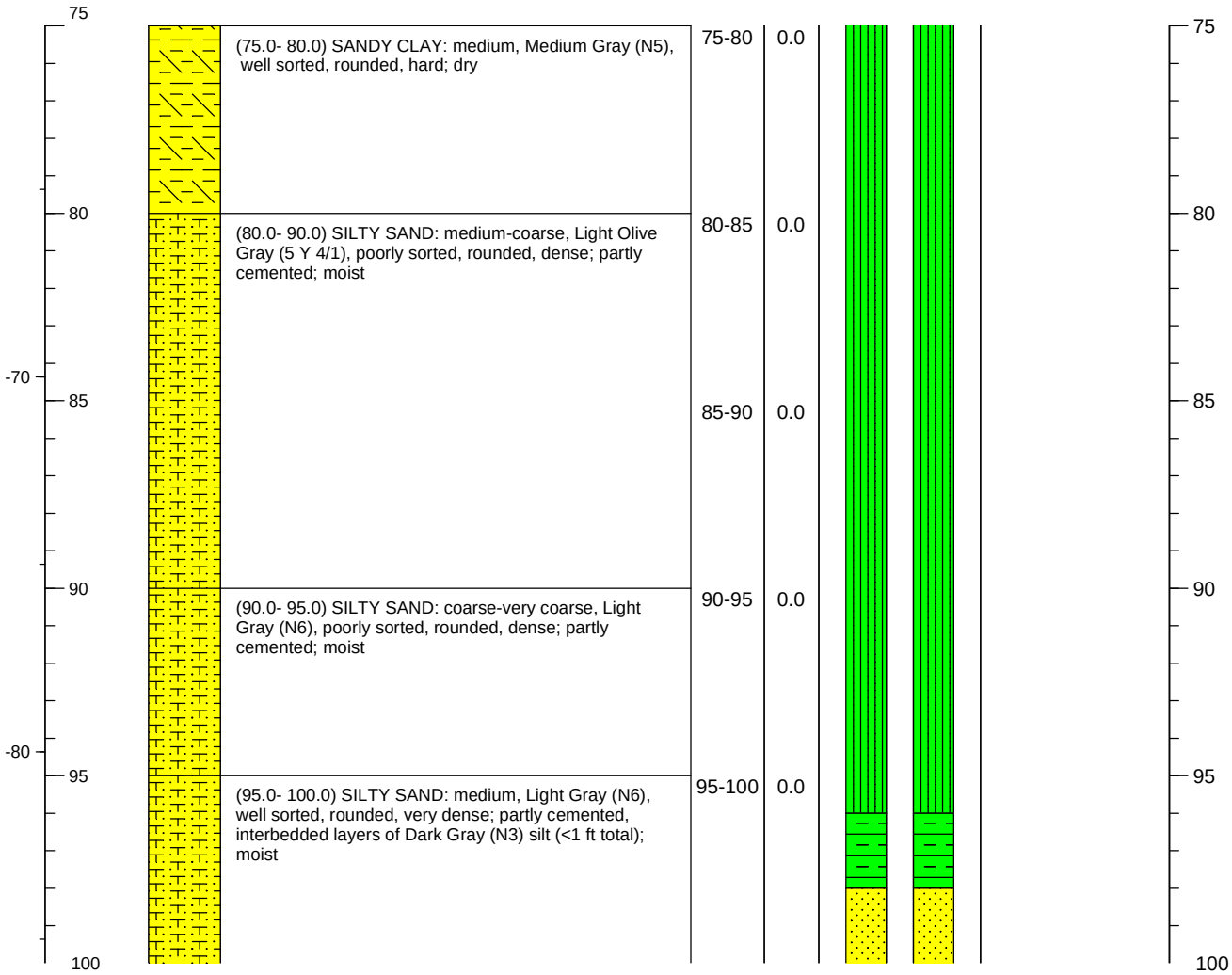
LITHOLOGY **SAMPLING DATA**



Water level in completed well

Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**MW-37D**
Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Rousie SR1 w/Detric Head**	Northing **427022.580** Easting **867917.230** Well Screen Interval **100-110 ft**	Ground Surface Elevation **14.36** Top of Well Casing Elevation **16.81**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **110 ft**
Logged By **R. McLain** Approved By **R. Cate**	Date Drilling Started **3/19/10**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **150 ft** Boring Dia. **6 in.**
Driller Name **B. Niles** Project Number **WBS30012B1**	Date Drilling Completed **3/23/10**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

LITHOLOGY **SAMPLING DATA**

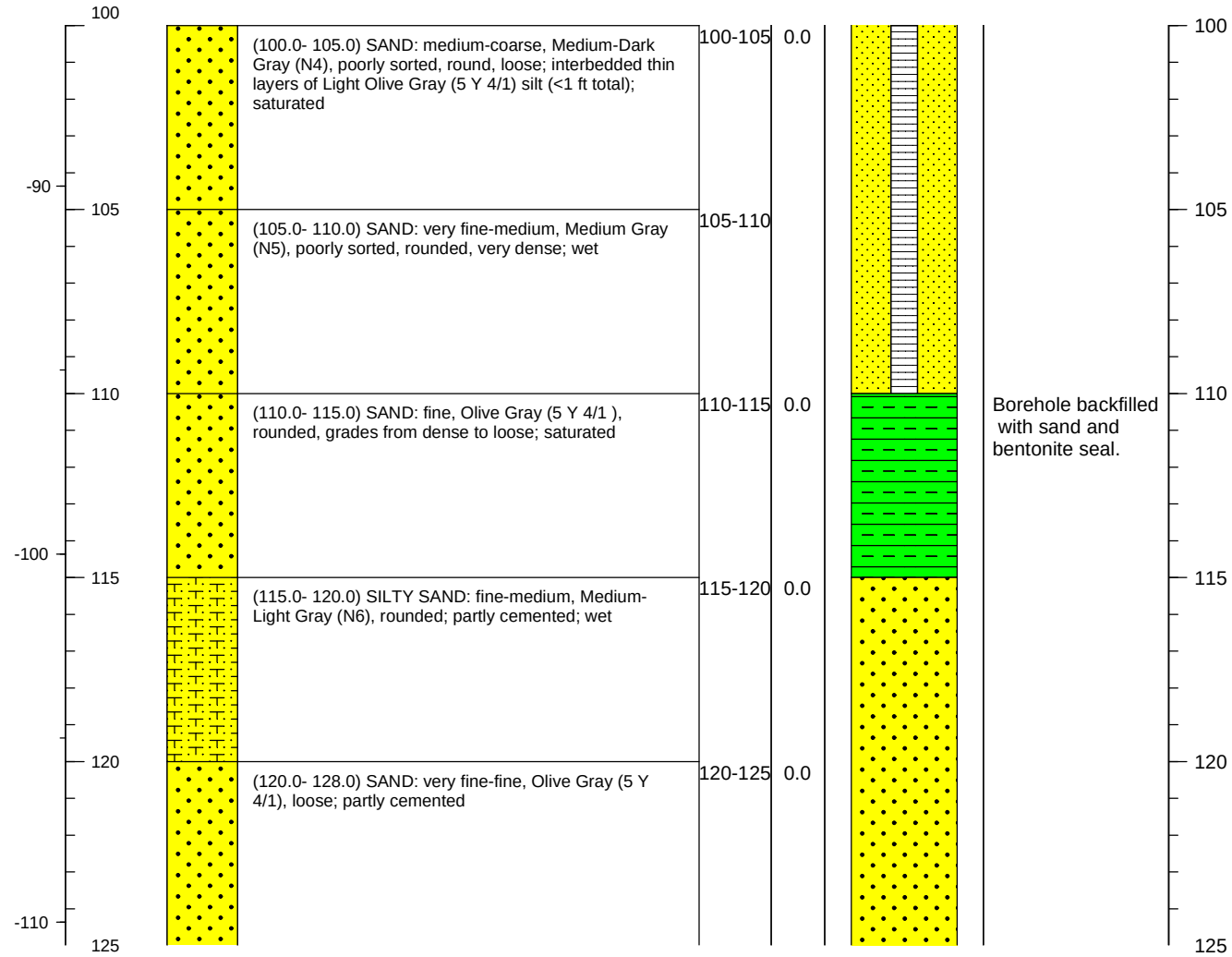


Water level in completed well

Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**MW-37D**

Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Rousie SR1 w/Detric Head**	Northing **427022.580** Easting **867917.230** Well Screen Interval **100-110 ft**	Ground Surface Elevation **14.36** Top of Well Casing Elevation **16.81**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **110 ft**
Logged By **R. McLain** Approved By **R. Cate**	Date Drilling Started **3/19/10**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **150 ft** Boring Dia. **6 in.**
Driller Name **B. Niles** Project Number **WBS30012B1**	Date Drilling Completed **3/23/10**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

LITHOLOGY **SAMPLING DATA**



Water level in completed well

Project Name	Monitoring Well Construction Log	Well Number
Ashland Brunswick Georgia		**MW-37D**

Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Rousie SR1 w/Detric Head**	Northing **427022.580** Easting **867917.230** Well Screen Interval **100-110 ft**	Ground Surface Elevation **14.36** Top of Well Casing Elevation **16.81**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **110 ft**
Logged By **R. McLain** Approved By **R. Cate**	Date Drilling Started **3/19/10**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **150 ft** Boring Dia. **6 in.**
Driller Name **B. Niles** Project Number **WBS30012B1**	Date Drilling Completed **3/23/10**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

LITHOLOGY **SAMPLING DATA**

Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
	125			125-130	0.0			125
			(128.0- 136.0) SAND: very fine-fine, Olive Gray (5 Y 4/1), very dense; partly cemented; moist					
	130			130-135	0.0			130
-120								
	135			135-140	0.0			135
			(136.0- 140.0) SAND: fine-medium, Olive Gray (5 Y 4/1), rounded; 10% coarse sand; wet					
	140			140-145	0.0			140
			(140.0- 145.0) SILTY SAND: medium-coarse, Light Olive Gray (5Y 4/1), poorly sorted, rounded, loose; saturated					
-130								
	145			145-150	0.0			145
			(145.0- 150.0) SAND: fine-medium, Light Olive Gray (5 Y 4/1), rounded; 10% silt				Boring terminated at 150 feet below ground surface.	
	150							150

Water level in completed well

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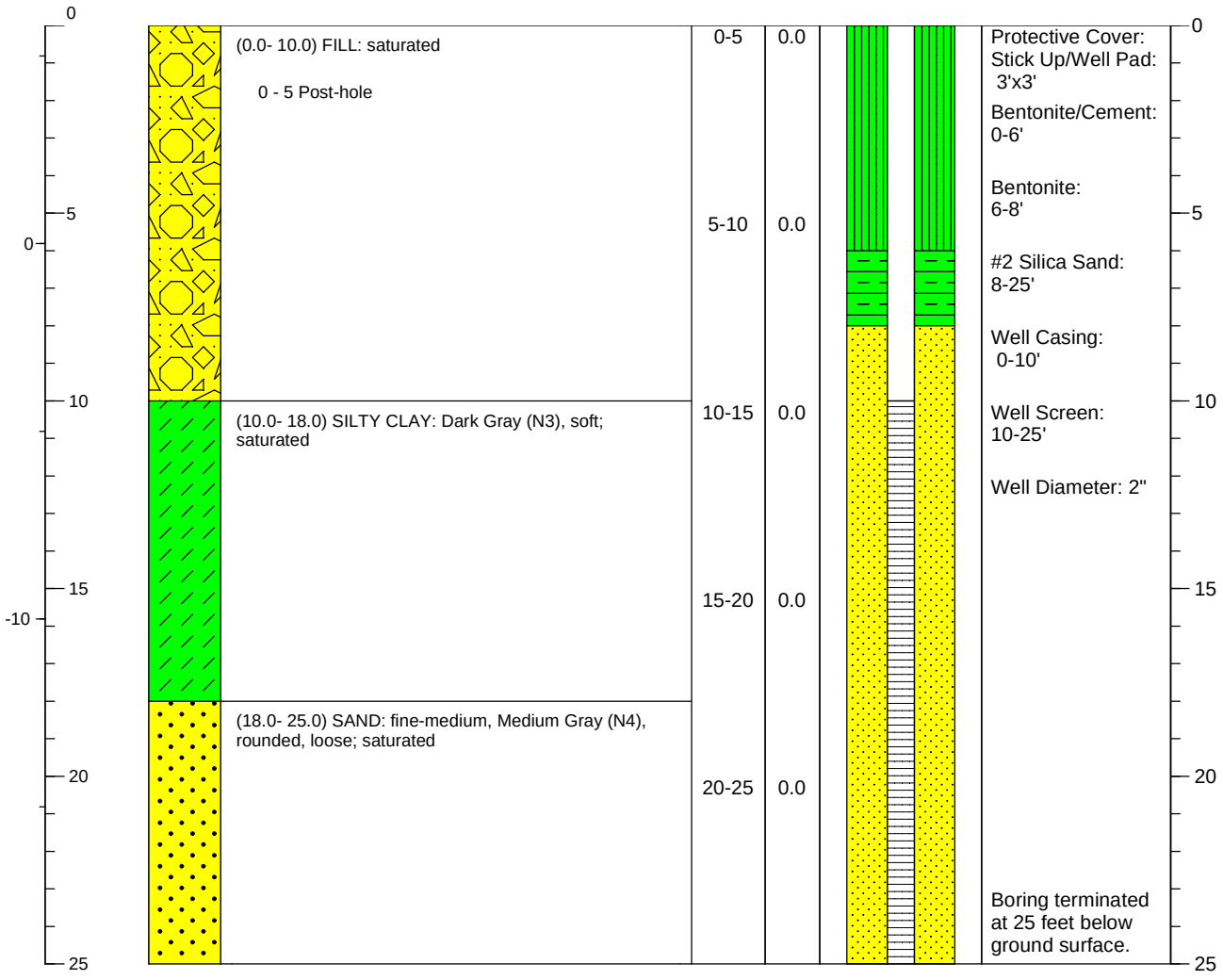
Xinogen

Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**MW-38S**
Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Rousie SR1 w/Detric Head**	Northing **424935.395** Easting **873054.807** Well Screen Interval **10-25 ft**	Ground Surface Elevation **5.81** Top of Well Casing Elevation **8.63**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **25 ft**
Logged By **R. McLain** Approved By **R. Cate**	Date Drilling Started **4/5/10**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **25 ft** Boring Dia. **6 in.**
Driller Name **B. Niles** Project Number **WBS30012B1**	Date Drilling Completed **4/6/10**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

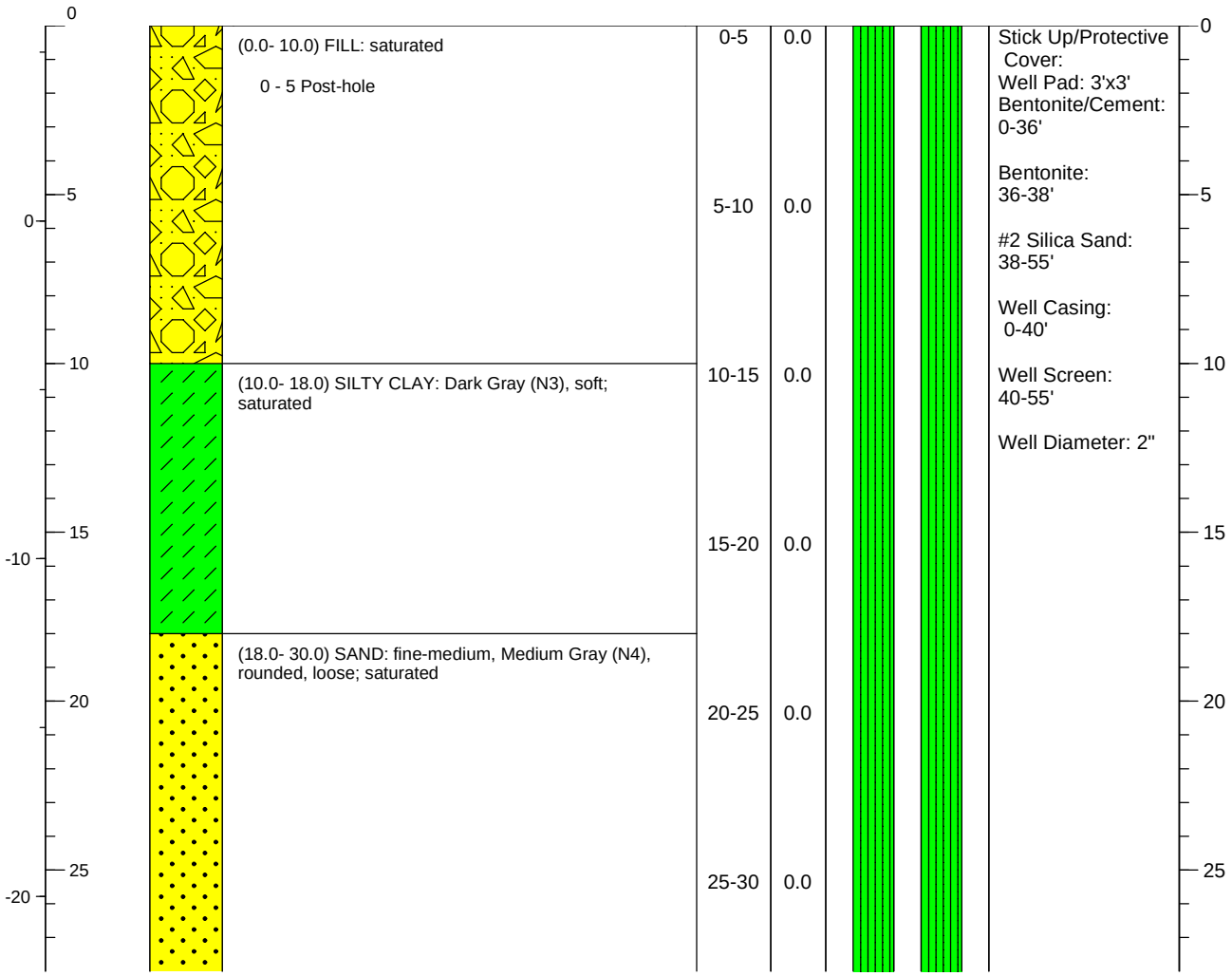
LITHOLOGY **SAMPLING DATA**



Water level in completed well

Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**MW-38I**
Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Rousie SR1 w/Detric Head**	Northing **424936.700** Easting **873051.899** Well Screen Interval **40-55 ft**	Ground Surface Elevation **5.78** Top of Well Casing Elevation **8.72**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **55 ft**
Logged By **R. McLain** Approved By **R. Cate**	Date Drilling Started **4/5/10**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **55 ft** Boring Dia. **6 in.**
Driller Name **B. Niles** Project Number **WBS30012B1**	Date Drilling Completed **4/6/10**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

LITHOLOGY **SAMPLING DATA**



Water level in completed well

Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**MW-38I**

Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Rousie SR1 w/Detric Head**	Northing **424936.700** Easting **873051.899** Well Screen Interval **40-55 ft**	Ground Surface Elevation **5.78** Top of Well Casing Elevation **8.72**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **55 ft**
Logged By **R. McLain** Approved By **R. Cate**	Date Drilling Started **4/5/10**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **55 ft** Boring Dia. **6 in.**
Driller Name **B. Niles** Project Number **WBS30012B1**	Date Drilling Completed **4/6/10**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

LITHOLOGY **SAMPLING DATA**

Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
	30		(30.0- 31.0) SILTY CLAY: Dark Gray (N3), soft	30-35	0.0			30
			(31.0- 36.0) SAND: medium-coarse, Medium Gray (N4), poorly sorted, rounded, loose; 10-20% shells; saturated					
-30	35			35-40	0.0			35
			(36.0- 39.0) SANDY CLAY: fine-medium, Medium Gray (N4), rounded, soft; saturated					
	40		(39.0- 42.0) SAND: coarse, Medium Gray (N4), well sorted, rounded, loose; saturated	40-45	0.0			40
			(42.0- 45.0) SILTY SAND: fine, Medium Gray (N4), rounded, very dense; wet					
-40	45		(45.0- 55.0) SAND: medium, Medium Gray (N4), well sorted, rounded, loose; saturated	45-50	0.0			45
	50			50-55	0.0		Boring terminated at 55 feet below ground surface.	50
	55							55

Water level in completed well

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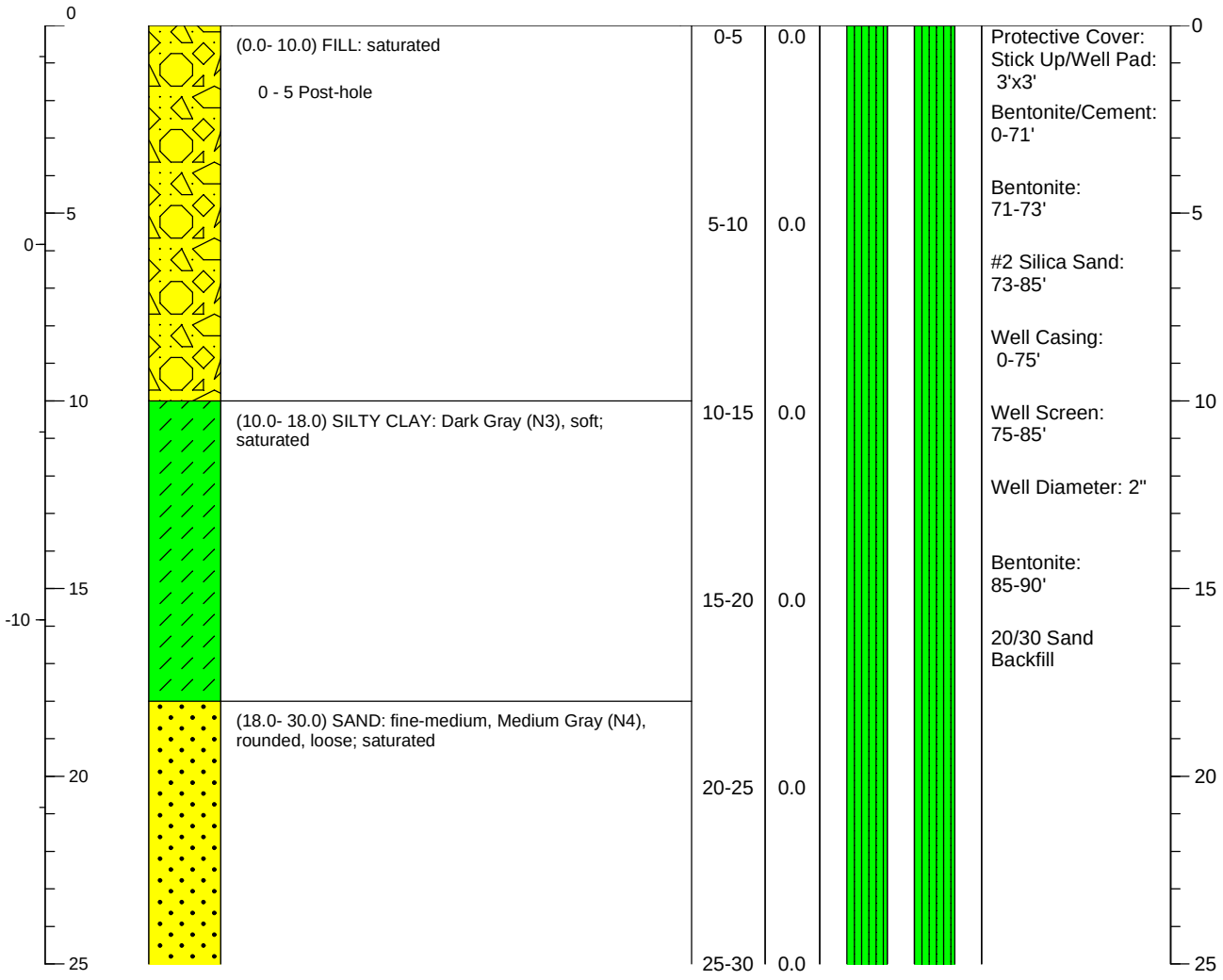
Xinogen

Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**MW-38D**
Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Rousie SR1 w/Detric Head**	Northing **424939.029** Easting **873047.577** Well Screen Interval **75-85 ft**	Ground Surface Elevation **5.83** Top of Well Casing Elevation **8.76**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **85 ft**
Logged By **R. McLain** Approved By **R. Cate**	Date Drilling Started **4/5/10**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **100 ft** Boring Dia. **6 in.**
Driller Name **B. Niles** Project Number **WBS30012B1**	Date Drilling Completed **4/6/10**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

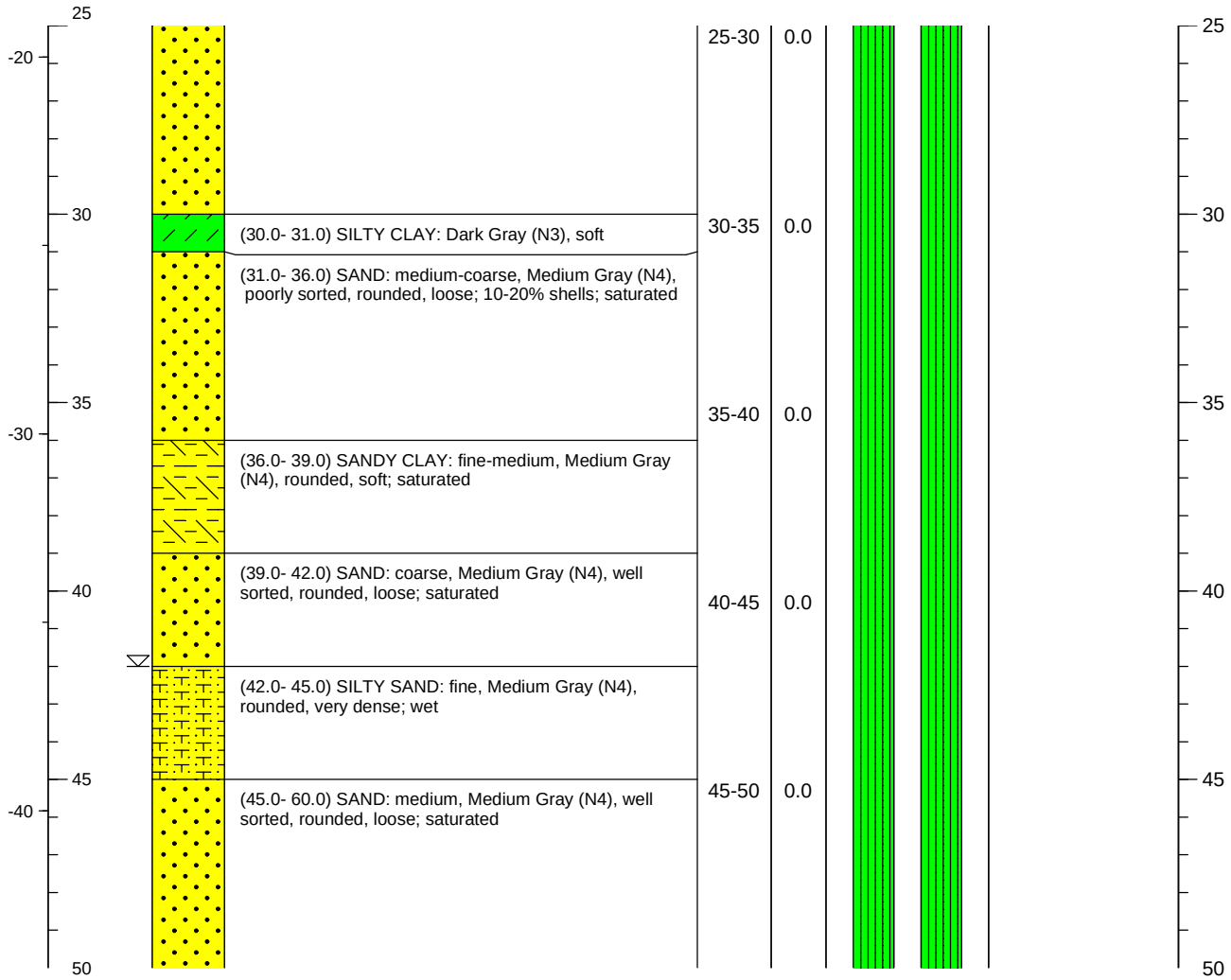
LITHOLOGY **SAMPLING DATA**



Water level in completed well

Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**MW-38D**
Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Rousie SR1 w/Detric Head**	Northing **424939.029** Easting **873047.577** Well Screen Interval **75-85 ft**	Ground Surface Elevation **5.83** Top of Well Casing Elevation **8.76**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **85 ft**
Logged By **R. McLain** Approved By **R. Cate**	Date Drilling Started **4/5/10**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **100 ft** Boring Dia. **6 in.**
Driller Name **B. Niles** Project Number **WBS30012B1**	Date Drilling Completed **4/6/10**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

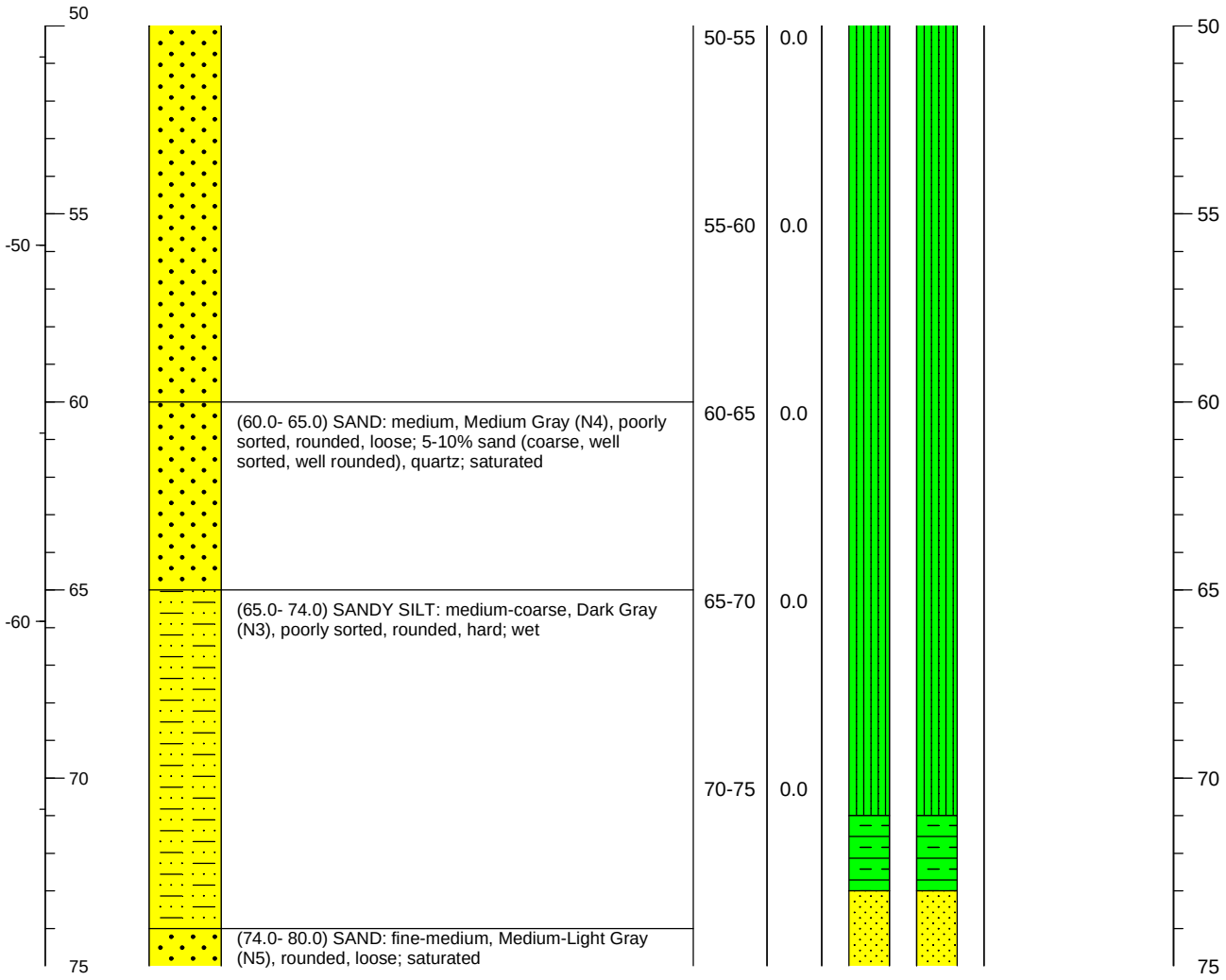
LITHOLOGY **SAMPLING DATA**



Water level in completed well

Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**MW-38D**
Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Rousie SR1 w/Detric Head**	Northing **424939.029** Easting **873047.577** Well Screen Interval **75-85 ft**	Ground Surface Elevation **5.83** Top of Well Casing Elevation **8.76**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **85 ft**
Logged By **R. McLain** Approved By **R. Cate**	Date Drilling Started **4/5/10**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **100 ft** Boring Dia. **6 in.**
Driller Name **B. Niles** Project Number **WBS30012B1**	Date Drilling Completed **4/6/10**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

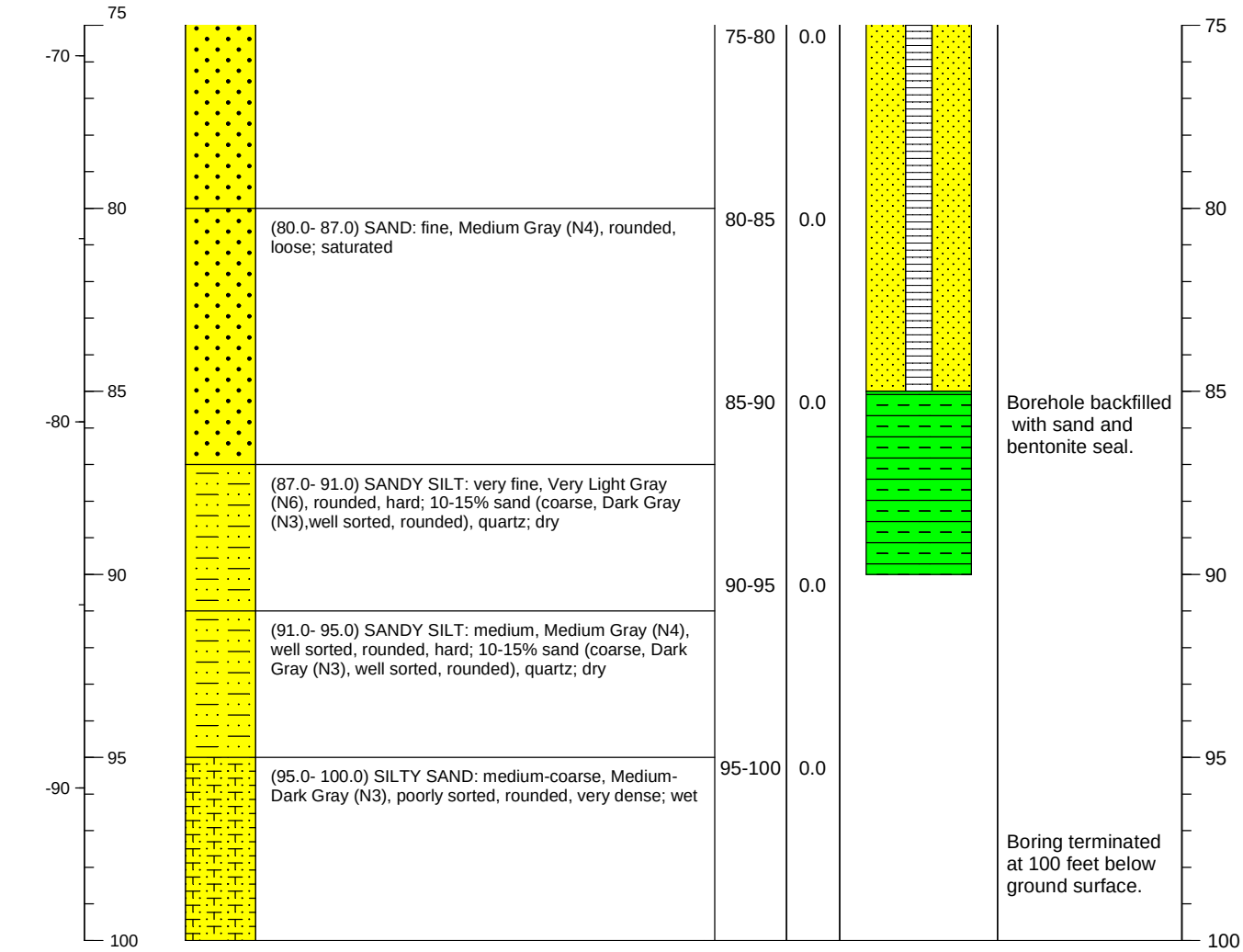
LITHOLOGY **SAMPLING DATA**



Water level in completed well

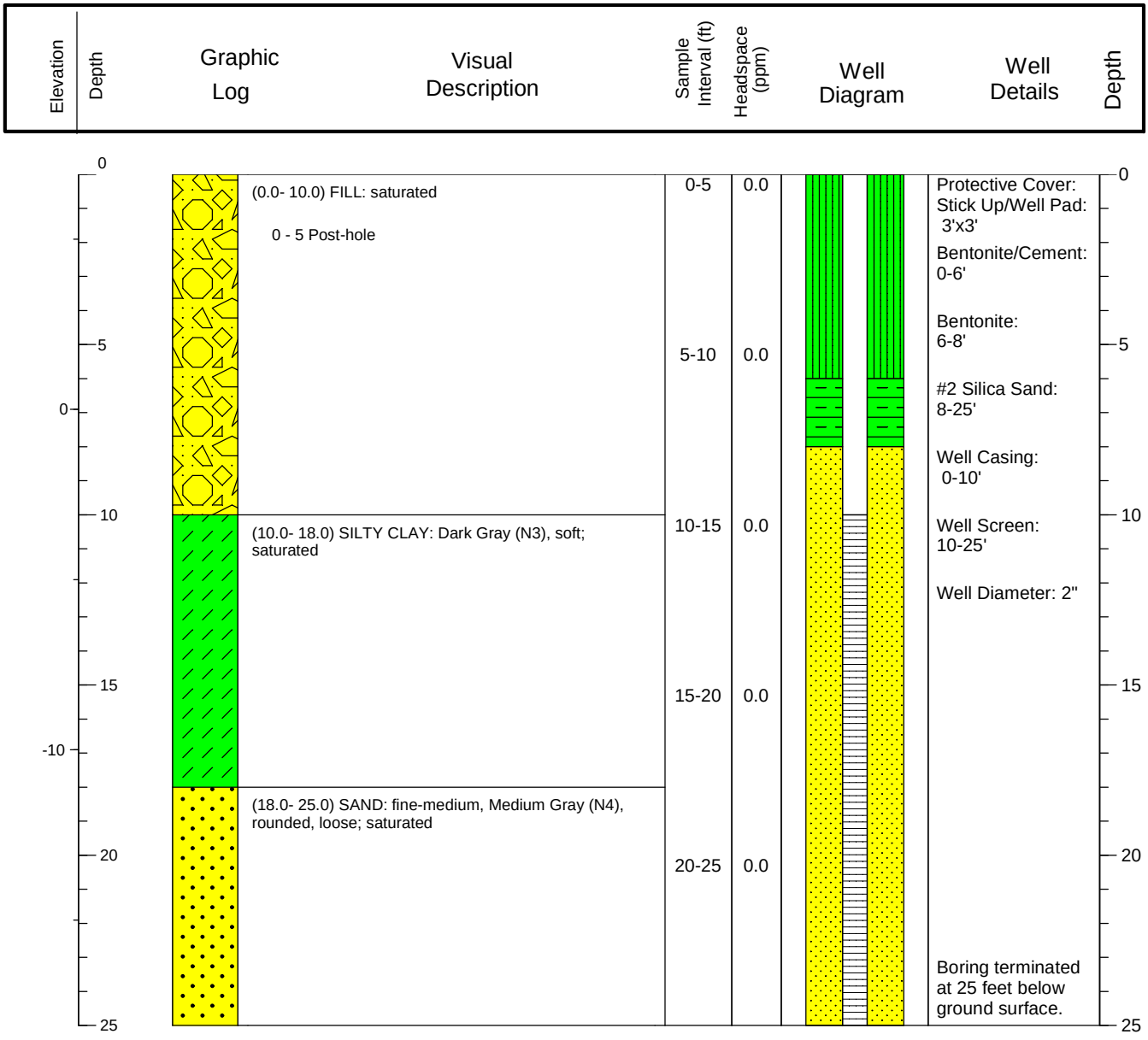
Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**MW-38D**
Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Rousie SR1 w/Detric Head**	Northing **424939.029** Easting **873047.577** Well Screen Interval **75-85 ft**	Ground Surface Elevation **5.83** Top of Well Casing Elevation **8.76**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **85 ft**
Logged By **R. McLain** Approved By **R. Cate**	Date Drilling Started **4/5/10**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **100 ft** Boring Dia. **6 in.**
Driller Name **B. Niles** Project Number **WBS30012B1**	Date Drilling Completed **4/6/10**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

LITHOLOGY **SAMPLING DATA**



Water level in completed well

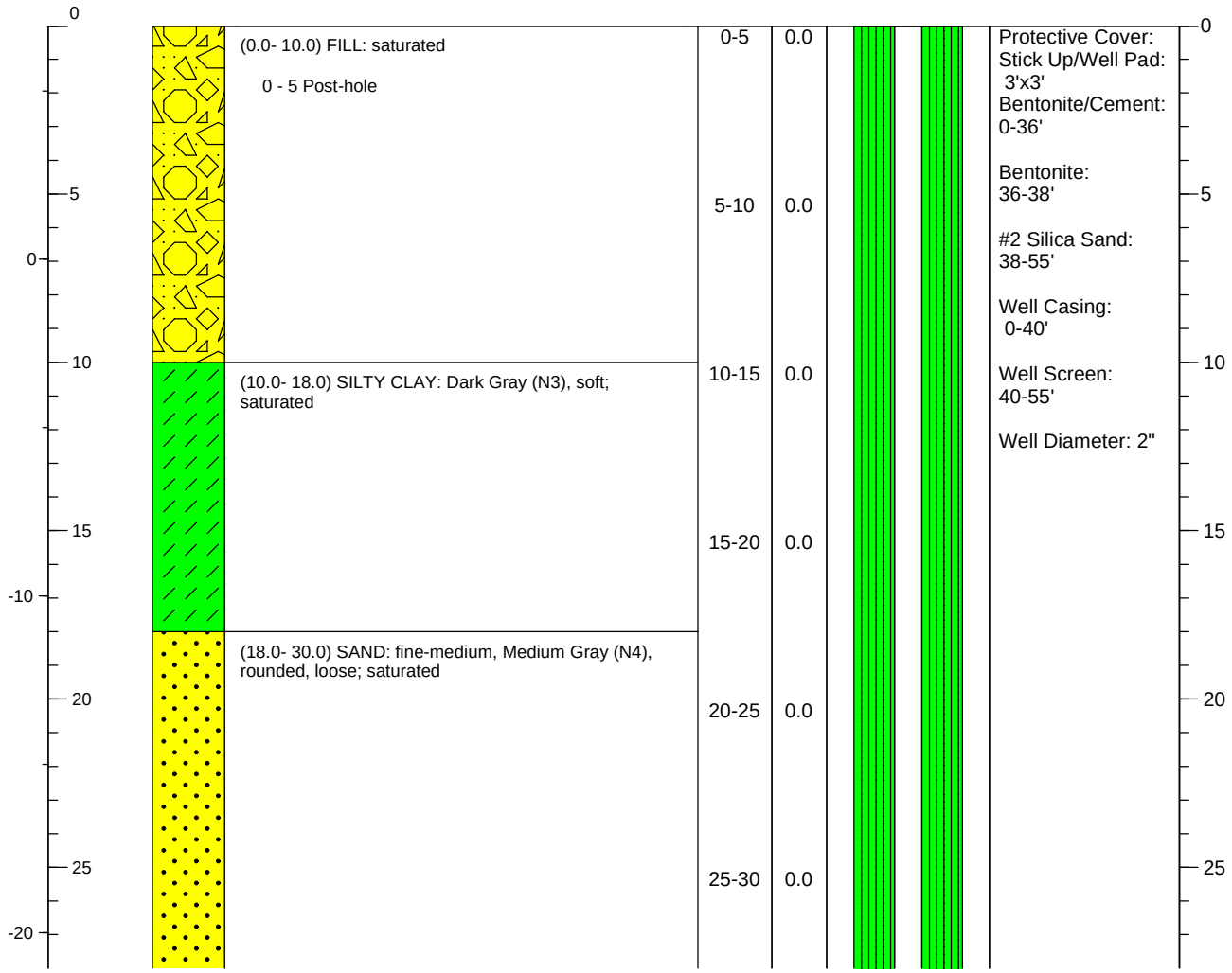
Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**MW-39S**
Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Rousie SR1 w/Detric Head**	Northing **424321.659** Easting **873717.417** Well Screen Interval **10-25 ft**	Ground Surface Elevation **6.90** Top of Well Casing Elevation **9.36**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **25 ft**
Logged By **R. McLain** Approved By **R. Cate**	Date Drilling Started **4/1/10**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **25 ft** Boring Dia. **6 in.**
Driller Name **B. Niles** Project Number **WBS30012B1**	Date Drilling Completed **4/1/10**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**



Water level in completed well

Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**MW-39I**
Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Rousie SR1 w/Detric Head**	Northing **424316.007** Easting **873719.349** Well Screen Interval **40-55 ft**	Ground Surface Elevation **6.94** Top of Well Casing Elevation **9.60**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **55 ft**
Logged By **R. McLain** Approved By **R. Cate**	Date Drilling Started **4/1/10**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **55 ft** Boring Dia. **6 in.**
Driller Name **B. Niles** Project Number **WBS30012B1**	Date Drilling Completed **4/1/10**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

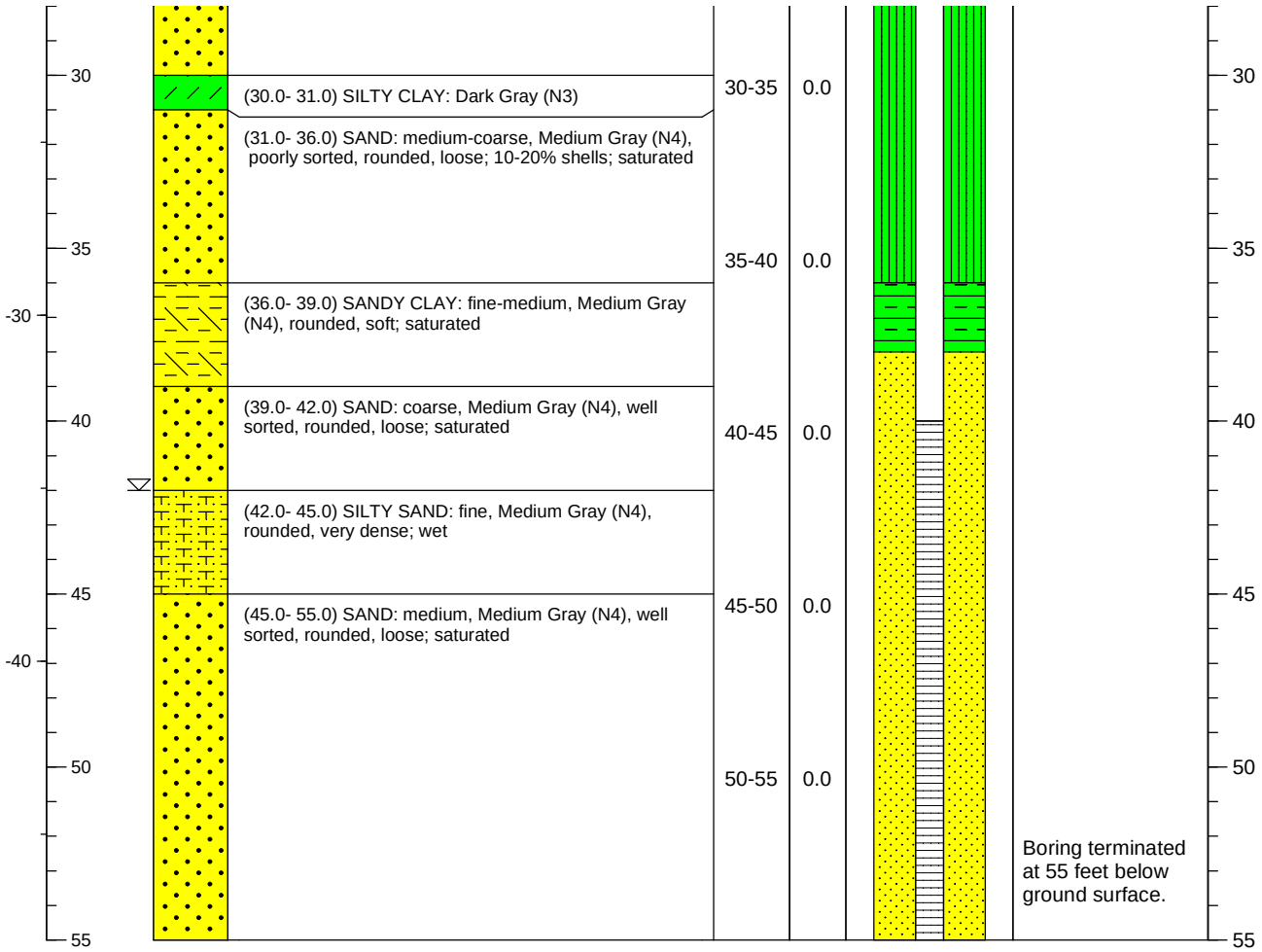
LITHOLOGY **SAMPLING DATA**



Water level in completed well

Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**MW-39I**
Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Rousie SR1 w/Detric Head**	Northing **424316.007** Easting **873719.349** Well Screen Interval **40-55 ft**	Ground Surface Elevation **6.94** Top of Well Casing Elevation **9.60**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **55 ft**
Logged By **R. McLain** Approved By **R. Cate**	Date Drilling Started **4/1/10**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **55 ft** Boring Dia. **6 in.**
Driller Name **B. Niles** Project Number **WBS30012B1**	Date Drilling Completed **4/1/10**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

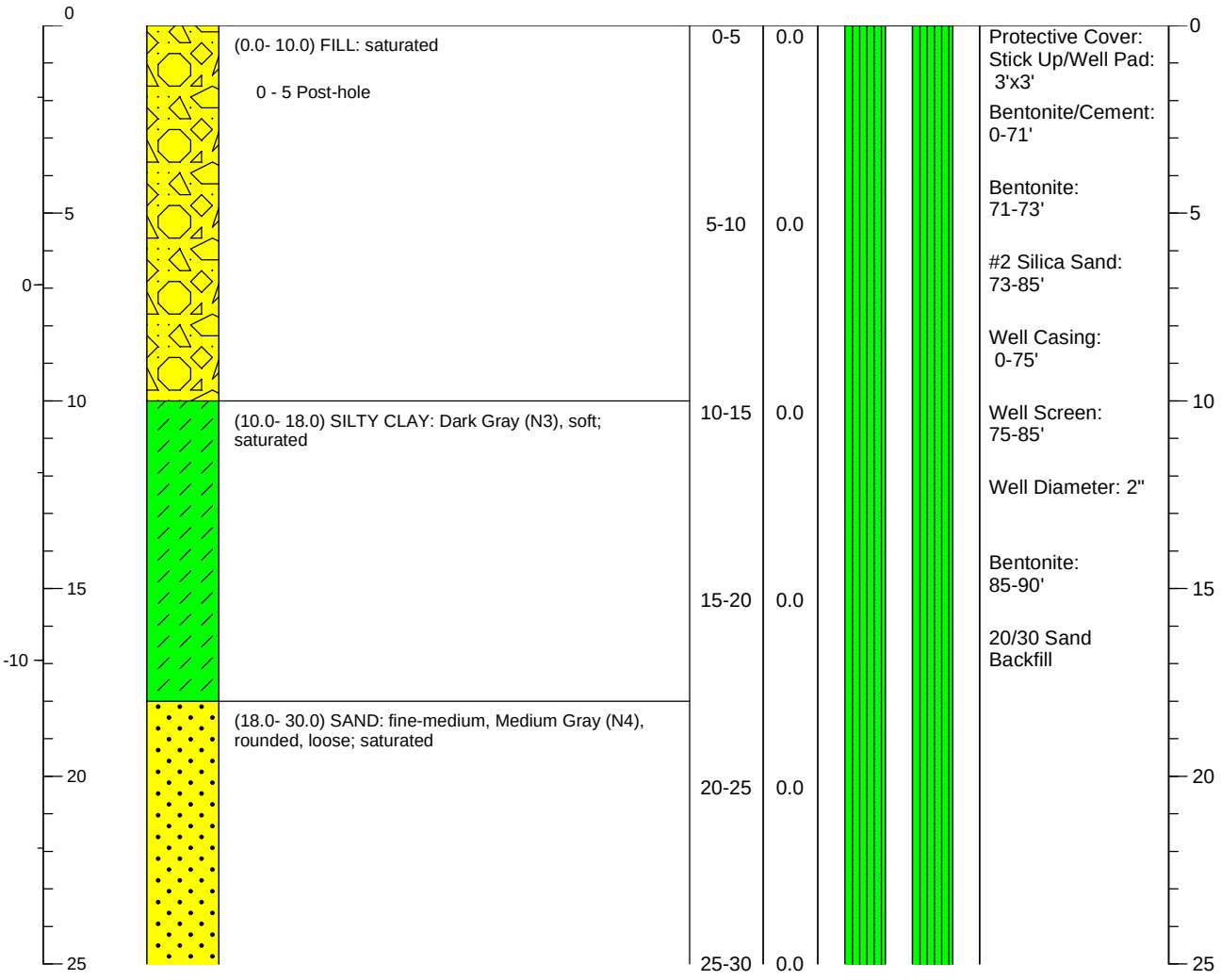
LITHOLOGY **SAMPLING DATA**



Water level in completed well

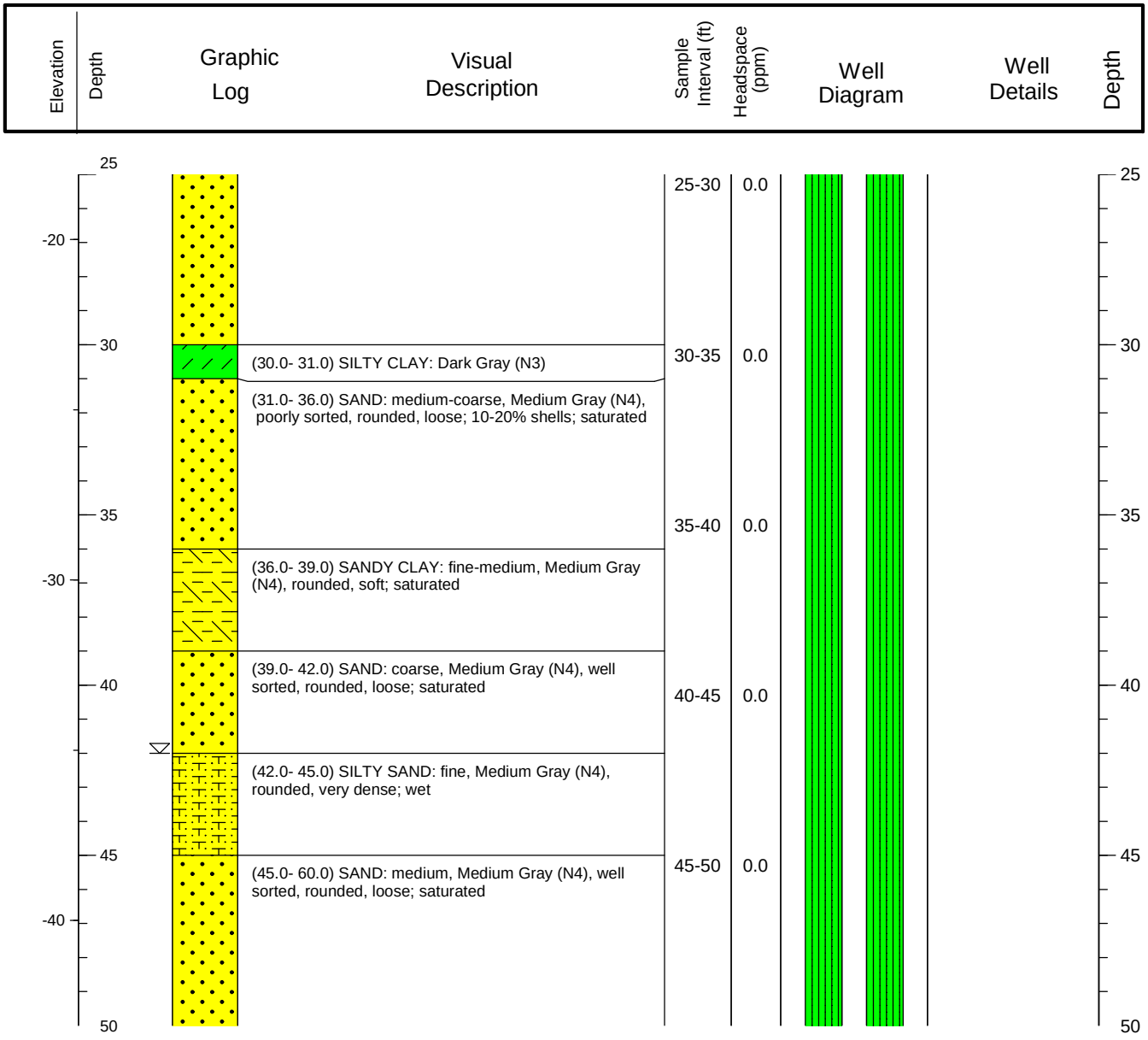
Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**MW-39D**
Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Rousie SR1 w/Detric Head**	Northing **424309.667** Easting **873721.548** Well Screen Interval **75-85 ft**	Ground Surface Elevation **6.91** Top of Well Casing Elevation **9.83**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **85 ft**
Logged By **R. McLain** Approved By **R. Cate**	Date Drilling Started **3/31/10**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **150 ft** Boring Dia. **6 in.**
Driller Name **B. Niles** Project Number **WBS30012B1**	Date Drilling Completed **4/1/10**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

LITHOLOGY **SAMPLING DATA**



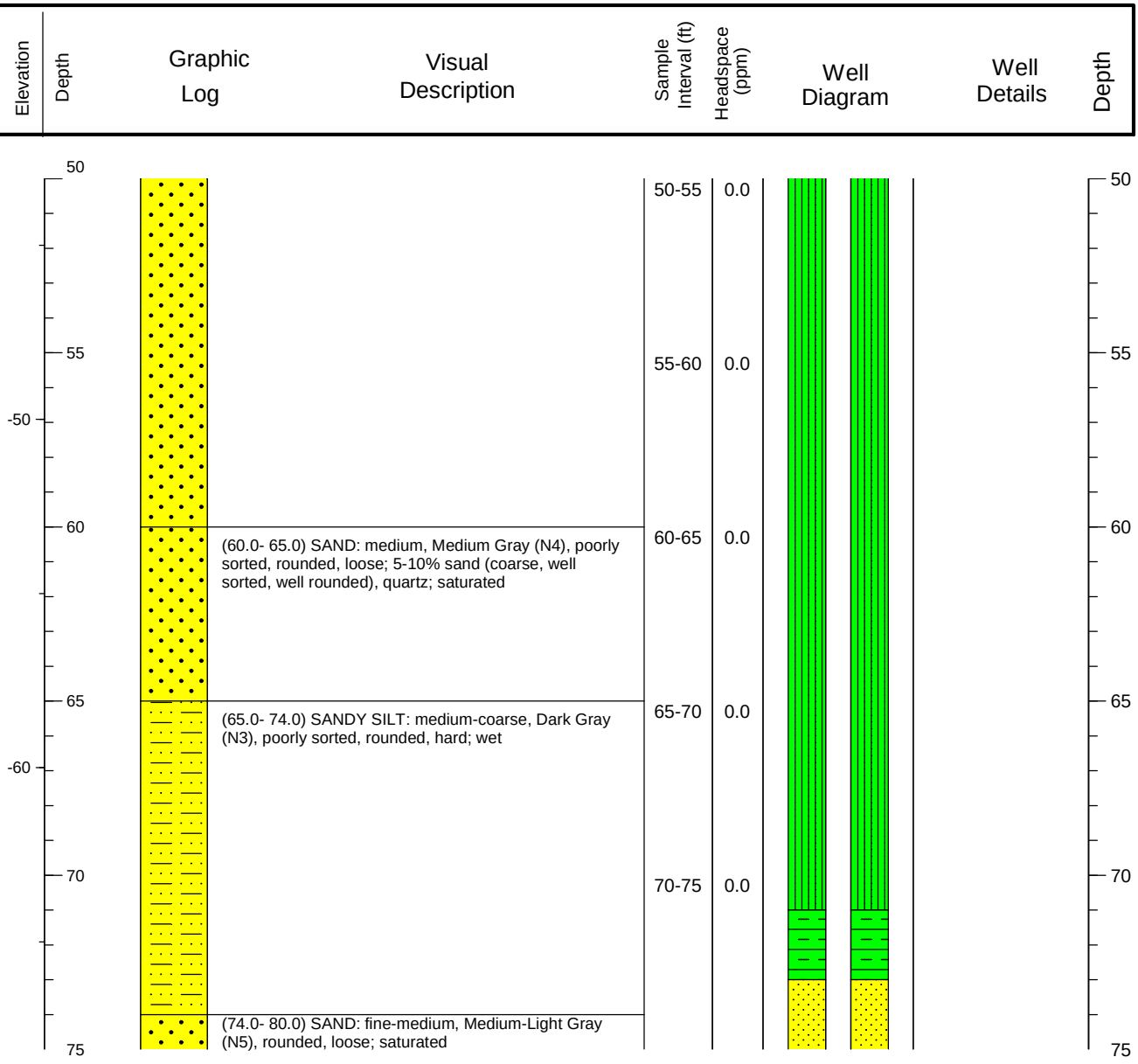
Water level in completed well

Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**MW-39D**
Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Rousie SR1 w/Detric Head**	Northing **424309.667** Easting **873721.548** Well Screen Interval **75-85 ft**	Ground Surface Elevation **6.91** Top of Well Casing Elevation **9.83**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **85 ft**
Logged By **R. McLain** Approved By **R. Cate**	Date Drilling Started **3/31/10**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **150 ft** Boring Dia. **6 in.**
Driller Name **B. Niles** Project Number **WBS30012B1**	Date Drilling Completed **4/1/10**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**



Water level in completed well

Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**MW-39D**
Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Rousie SR1 w/Detric Head**	Northing **424309.667** Easting **873721.548** Well Screen Interval **75-85 ft**	Ground Surface Elevation **6.91** Top of Well Casing Elevation **9.83**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **85 ft**
Logged By **R. McLain** Approved By **R. Cate**	Date Drilling Started **3/31/10**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **150 ft** Boring Dia. **6 in.**
Driller Name **B. Niles** Project Number **WBS30012B1**	Date Drilling Completed **4/1/10**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

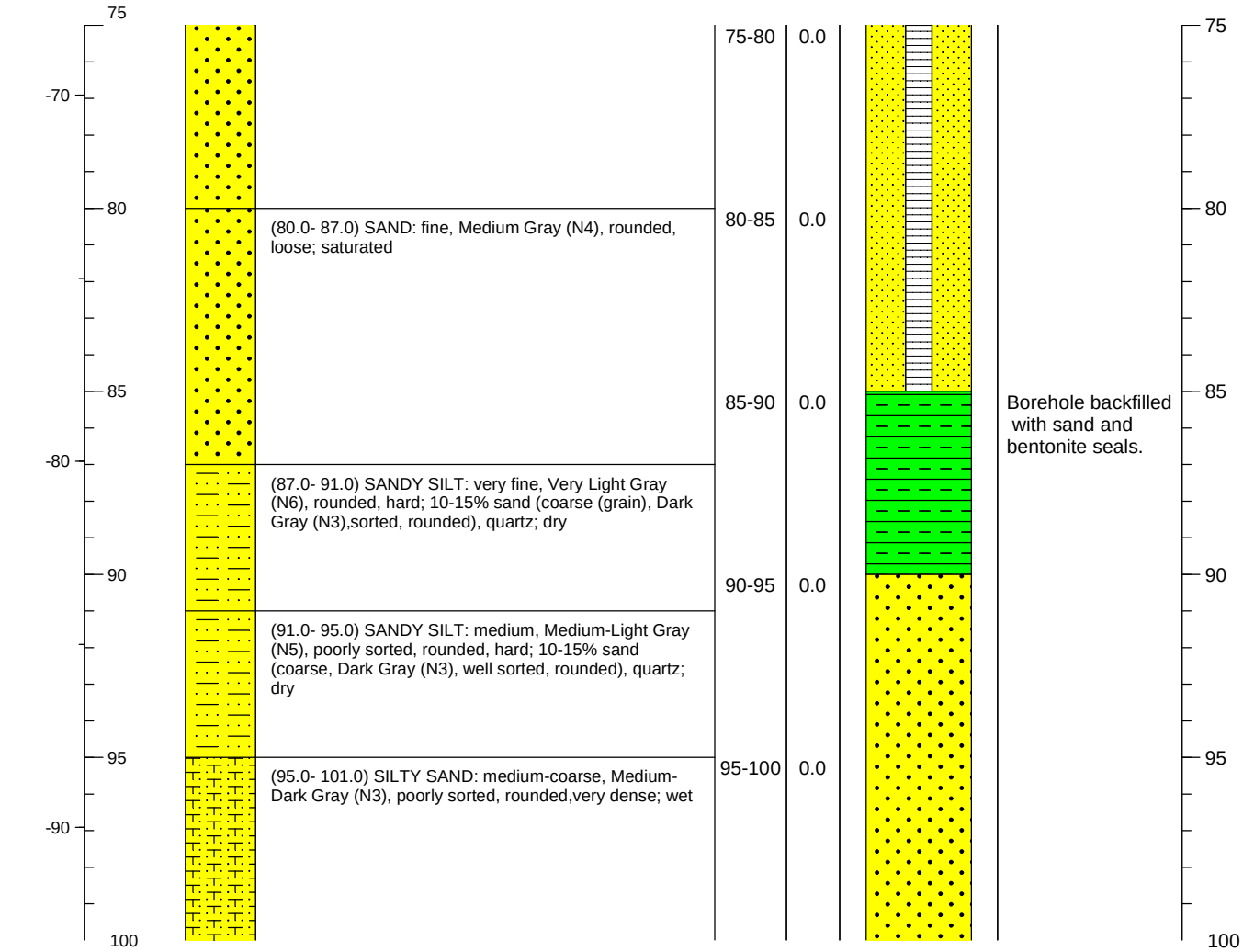


Water level in completed well

Project Name	Monitoring Well Construction Log	Well Number
Ashland Brunswick Georgia		**MW-39D**

Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Rousie SR1 w/Detric Head**	Northing **424309.667** Easting **873721.548** Well Screen Interval **75-85 ft**	Ground Surface Elevation **6.91** Top of Well Casing Elevation **9.83**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **85 ft**
Logged By **R. McLain** Approved By **R. Cate**	Date Drilling Started **3/31/10**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **150 ft** Boring Dia. **6 in.**
Driller Name **B. Niles** Project Number **WBS30012B1**	Date Drilling Completed **4/1/10**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

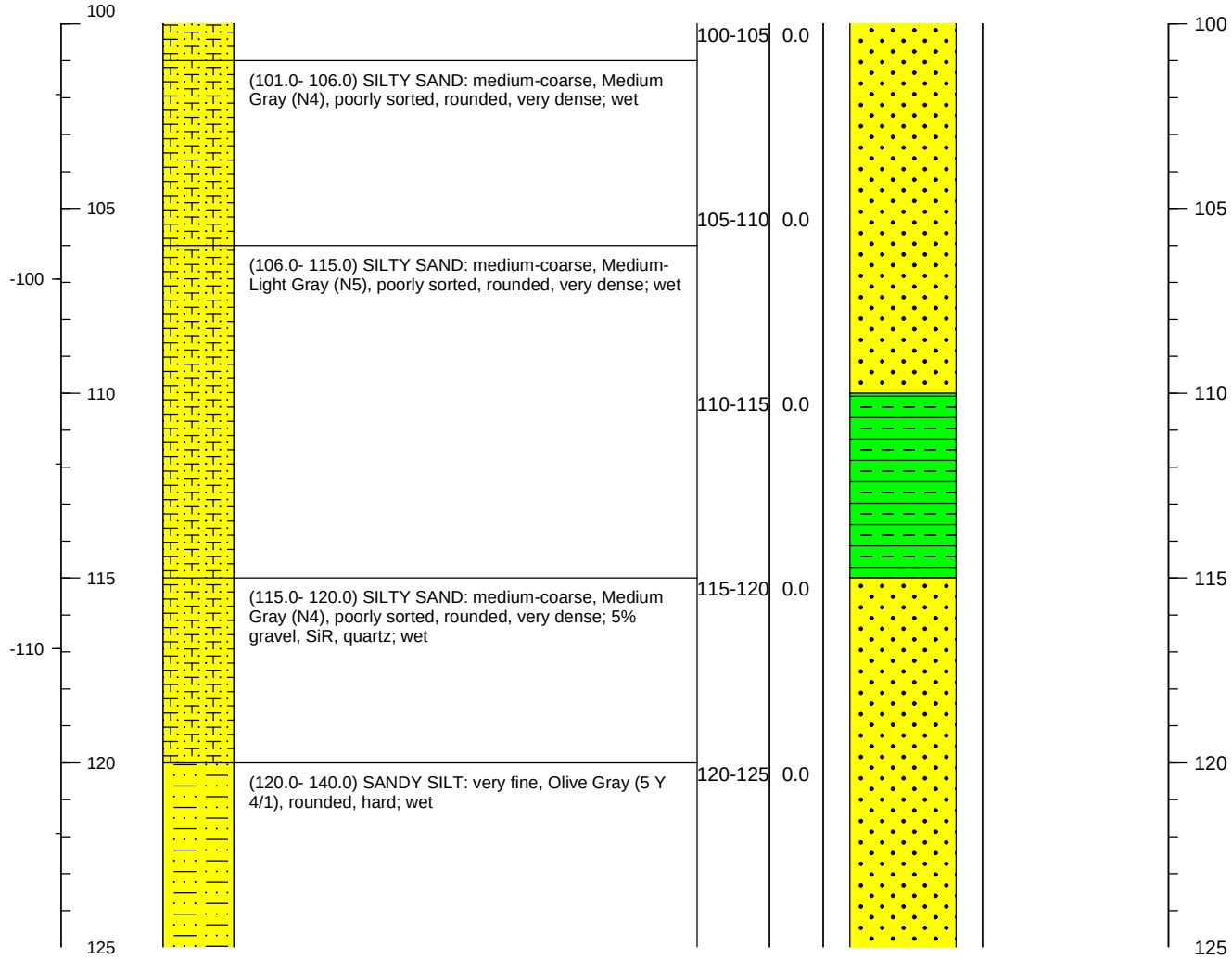
LITHOLOGY **SAMPLING DATA**



Water level in completed well

Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**MW-39D**
Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Rousie SR1 w/Detric Head**	Northing **424309.667** Easting **873721.548** Well Screen Interval **75-85 ft**	Ground Surface Elevation **6.91** Top of Well Casing Elevation **9.83**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **85 ft**
Logged By **R. McLain** Approved By **R. Cate**	Date Drilling Started **3/31/10**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **150 ft** Boring Dia. **6 in.**
Driller Name **B. Niles** Project Number **WBS30012B1**	Date Drilling Completed **4/1/10**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

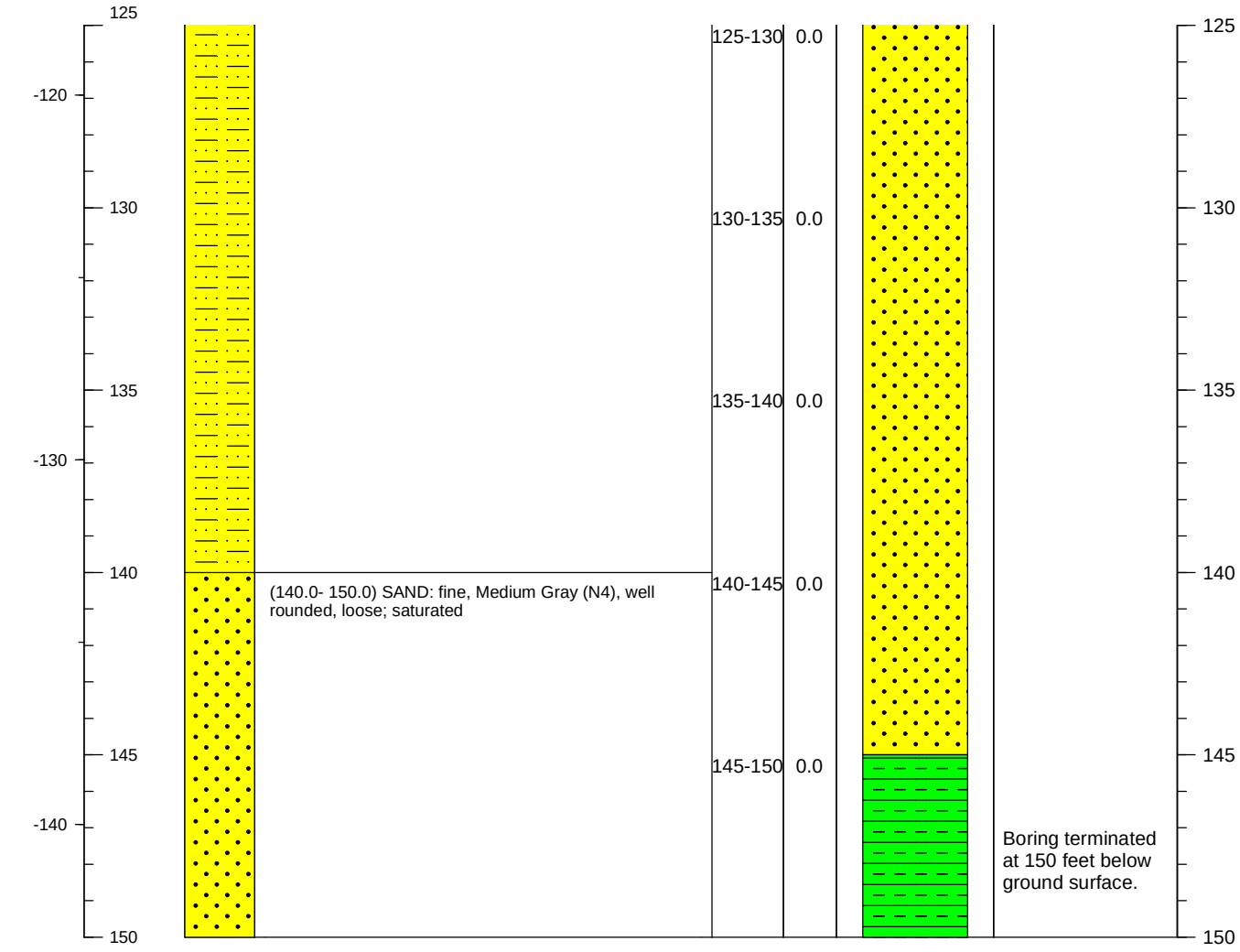
LITHOLOGY **SAMPLING DATA**



Water level in completed well

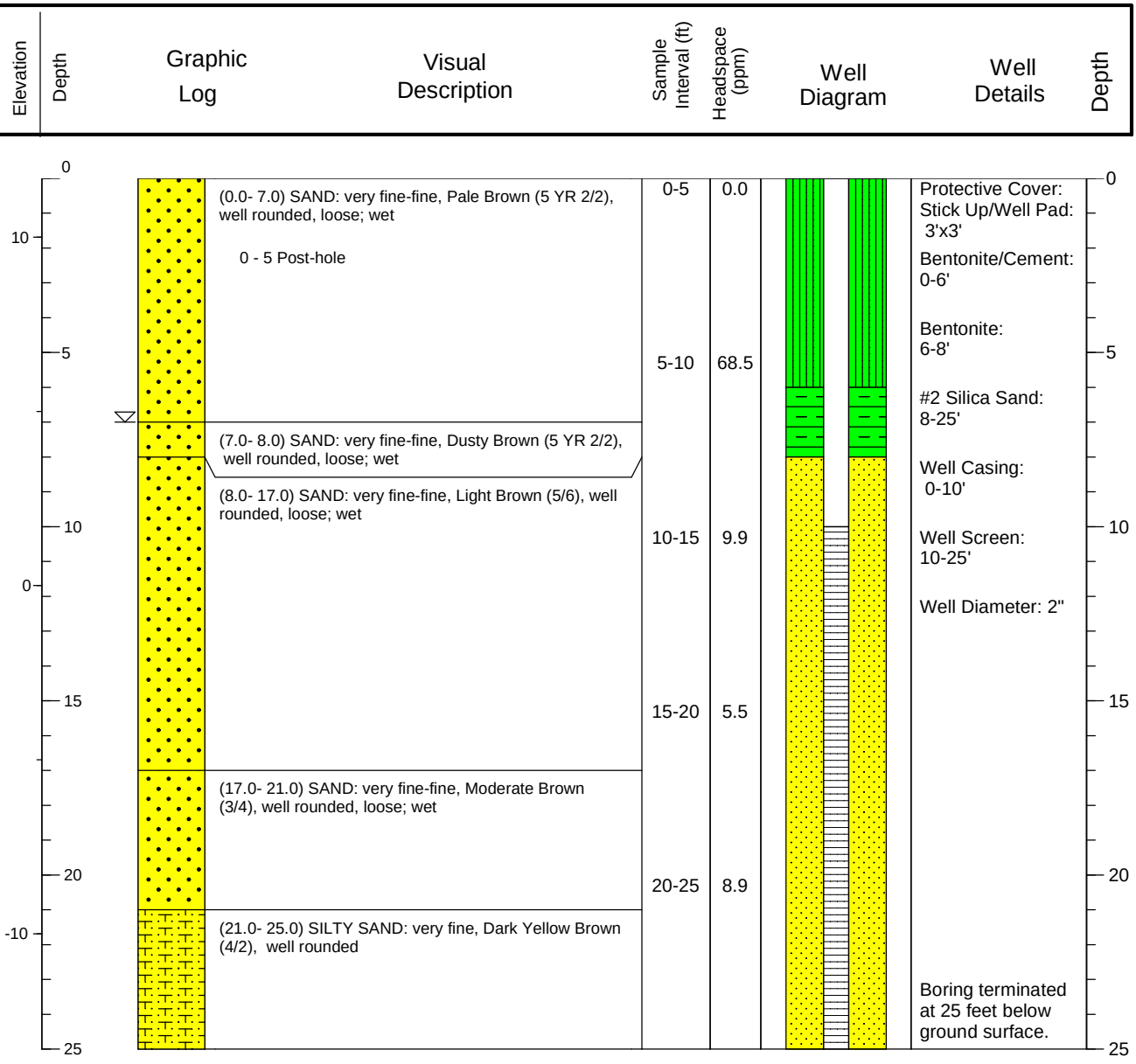
Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**MW-39D**
Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Rousie SR1 w/Detric Head**	Northing **424309.667** Easting **873721.548** Well Screen Interval **75-85 ft**	Ground Surface Elevation **6.91** Top of Well Casing Elevation **9.83**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **85 ft**
Logged By **R. McLain** Approved By **R. Cate**	Date Drilling Started **3/31/10**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **150 ft** Boring Dia. **6 in.**
Driller Name **B. Niles** Project Number **WBS30012B1**	Date Drilling Completed **4/1/10**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

LITHOLOGY **SAMPLING DATA**



Water level in completed well

Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**MW-40S**
Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Rousie SR1 w/Detric Head**	Northing **424370.069** Easting **869355.249** Well Screen Interval **10-25 ft**	Ground Surface Elevation **11.69** Top of Well Casing Elevation **14.19**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **25 ft**
Logged By **R. McLain** Approved By **R. Cate**	Date Drilling Started **3/29/10**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **25 ft** Boring Dia. **6 in.**
Driller Name **B. Niles** Project Number **WBS30012B1**	Date Drilling Completed **3/29/10**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

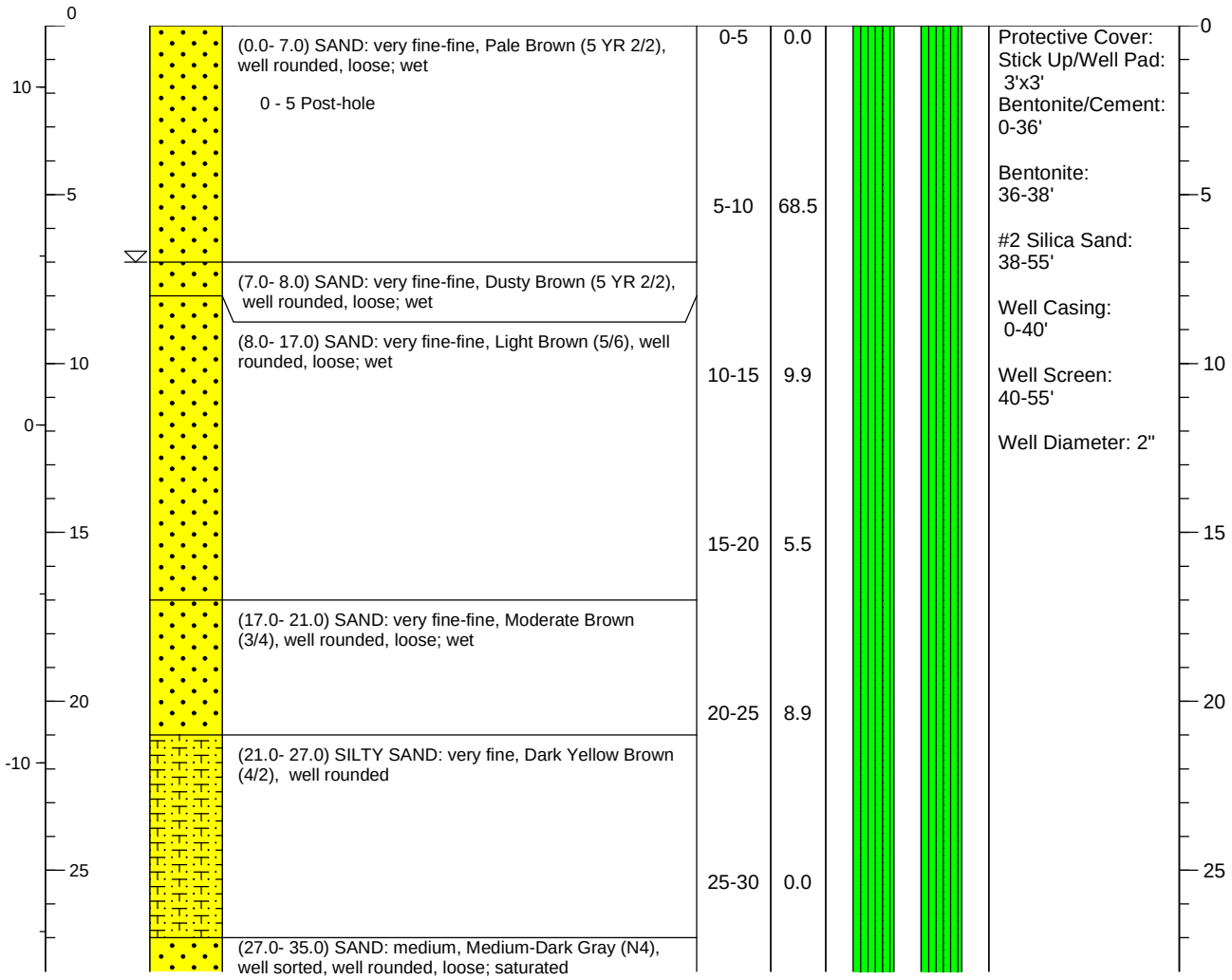


Water level in completed well

Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**MW-40I**

Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Rousie SR1 w/Detric Head**	Northing **424365.436** Easting **869354.577** Well Screen Interval **40-55 ft**	Ground Surface Elevation **11.82** Top of Well Casing Elevation **14.18**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **55 ft**
Logged By **R. McLain** Approved By **R. Cate**	Date Drilling Started **3/29/10**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **55 ft** Boring Dia. **6 in.**
Driller Name **B. Niles** Project Number **WBS30012B1**	Date Drilling Completed **3/29/10**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

LITHOLOGY **SAMPLING DATA**



Water level in completed well

Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**MW-40I**

Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Rousie SR1 w/Detric Head**	Northing **424365.436** Easting **869354.577** Well Screen Interval **40-55 ft**	Ground Surface Elevation **11.82** Top of Well Casing Elevation **14.18**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **55 ft**
Logged By **R. McLain** Approved By **R. Cate**	Date Drilling Started **3/29/10**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **55 ft** Boring Dia. **6 in.**
Driller Name **B. Niles** Project Number **WBS30012B1**	Date Drilling Completed **3/29/10**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

LITHOLOGY **SAMPLING DATA**

Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
-20	30			30-35	0.0			30
	35		(35.0- 40.0) SAND: medium-coarse, Medium-Dark Gray (N4), poorly sorted, rounded, loose; saturated	35-40	0.0			35
-30	40		(40.0- 45.0) SAND: coarse, Medium Gray (N5), well sorted, well rounded, loose; 10-20% shell fragments; saturated	40-45	0.0			40
	45		(45.0- 50.0) SAND: medium-coarse, Medium Gray (N5), poorly sorted, rounded, loose; 10-20% shell fragments; saturated	45-50	0.0			45
-40	50		(50.0- 51.0) SANDY CLAY: medium-coarse, Dark Gray (N3), poorly sorted, sub-rounded, soft; saturated	50-55	0.0			50
	55		(51.0- 55.0) SAND: medium-coarse, Medium Gray (N5), poorly sorted, sub-rounded, loose; saturated				Boring terminated at 55 feet below ground surface.	55

▼ Water level in completed well

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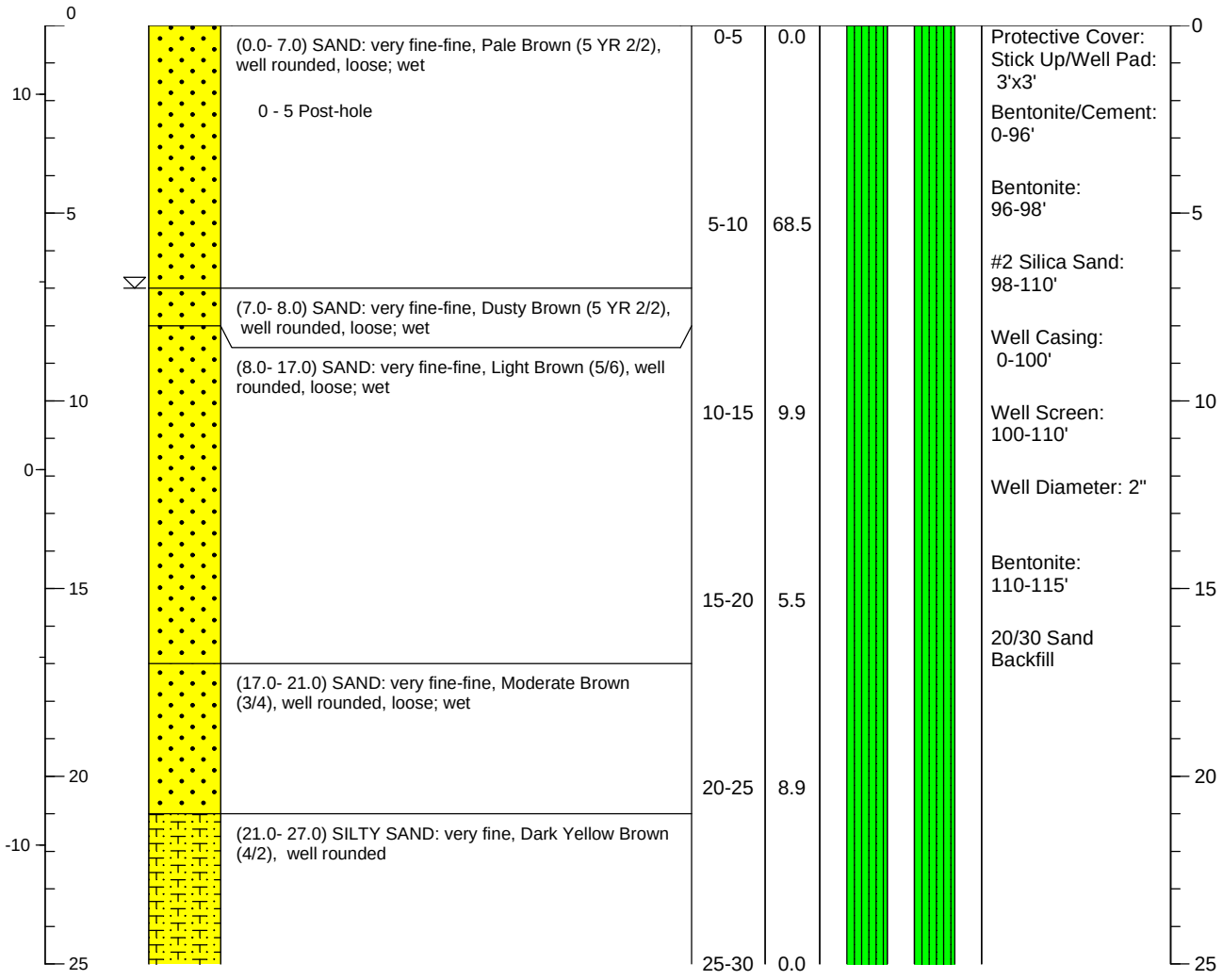
Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**MW-40D**
Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Rousie SR1 w/Detric Head**	Northing **424362.733** Easting **869354.345** Well Screen Interval **100-110 ft**	Ground Surface Elevation **11.83** Top of Well Casing Elevation **14.27**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **110 ft**
Logged By **R. McLain** Approved By **R. Cate**	Date Drilling Started **3/24/10**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **150 ft** Boring Dia. **6 in.**
Driller Name **B. Niles** Project Number **WBS30012B1**	Date Drilling Completed **3/26/10**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

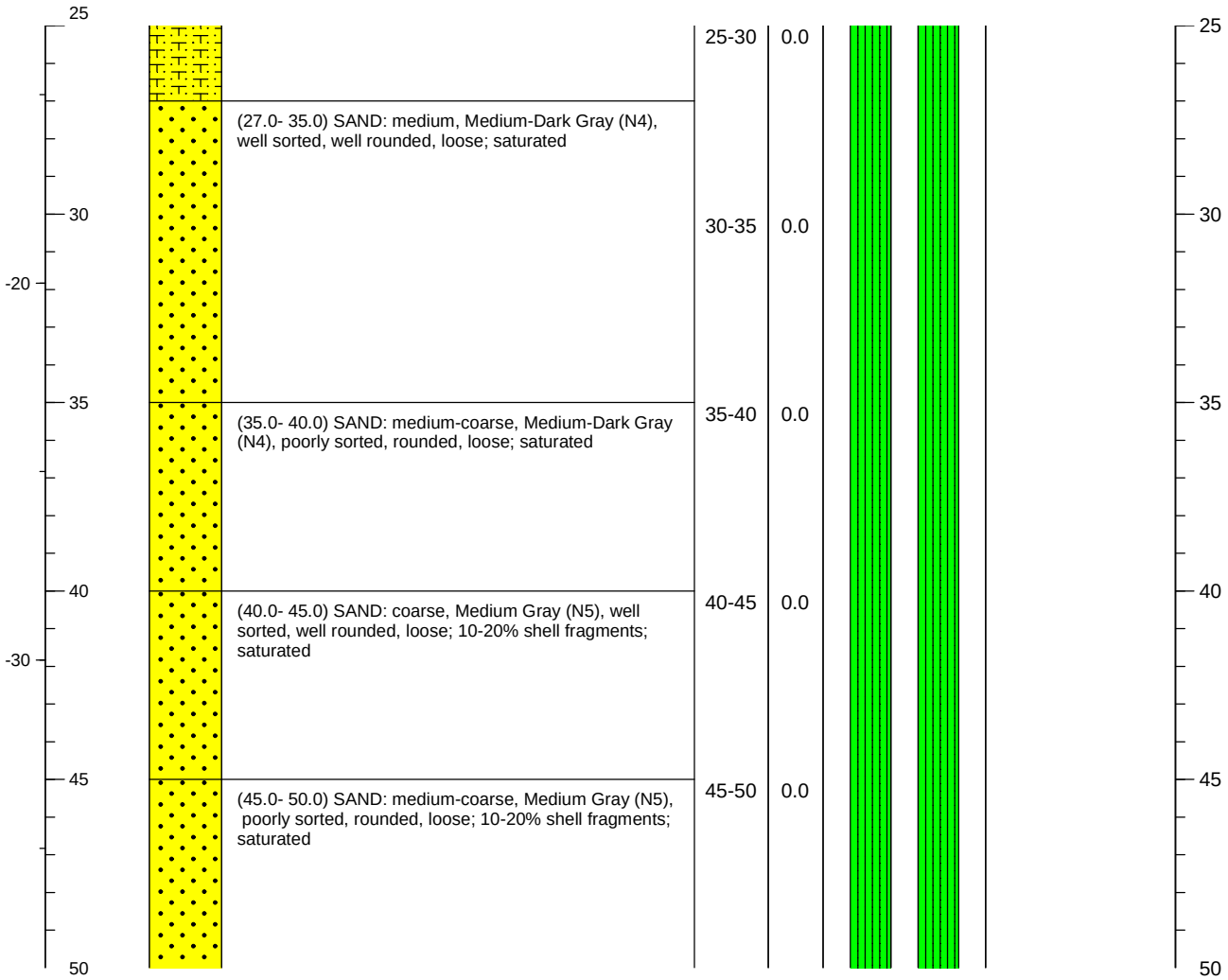
LITHOLOGY **SAMPLING DATA**



Water level in completed well

Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**MW-40D**
Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Rousie SR1 w/Detric Head**	Northing **424362.733** Easting **869354.345** Well Screen Interval **100-110 ft**	Ground Surface Elevation **11.83** Top of Well Casing Elevation **14.27**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **110 ft**
Logged By **R. McLain** Approved By **R. Cate**	Date Drilling Started **3/24/10**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **150 ft** Boring Dia. **6 in.**
Driller Name **B. Niles** Project Number **WBS30012B1**	Date Drilling Completed **3/26/10**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

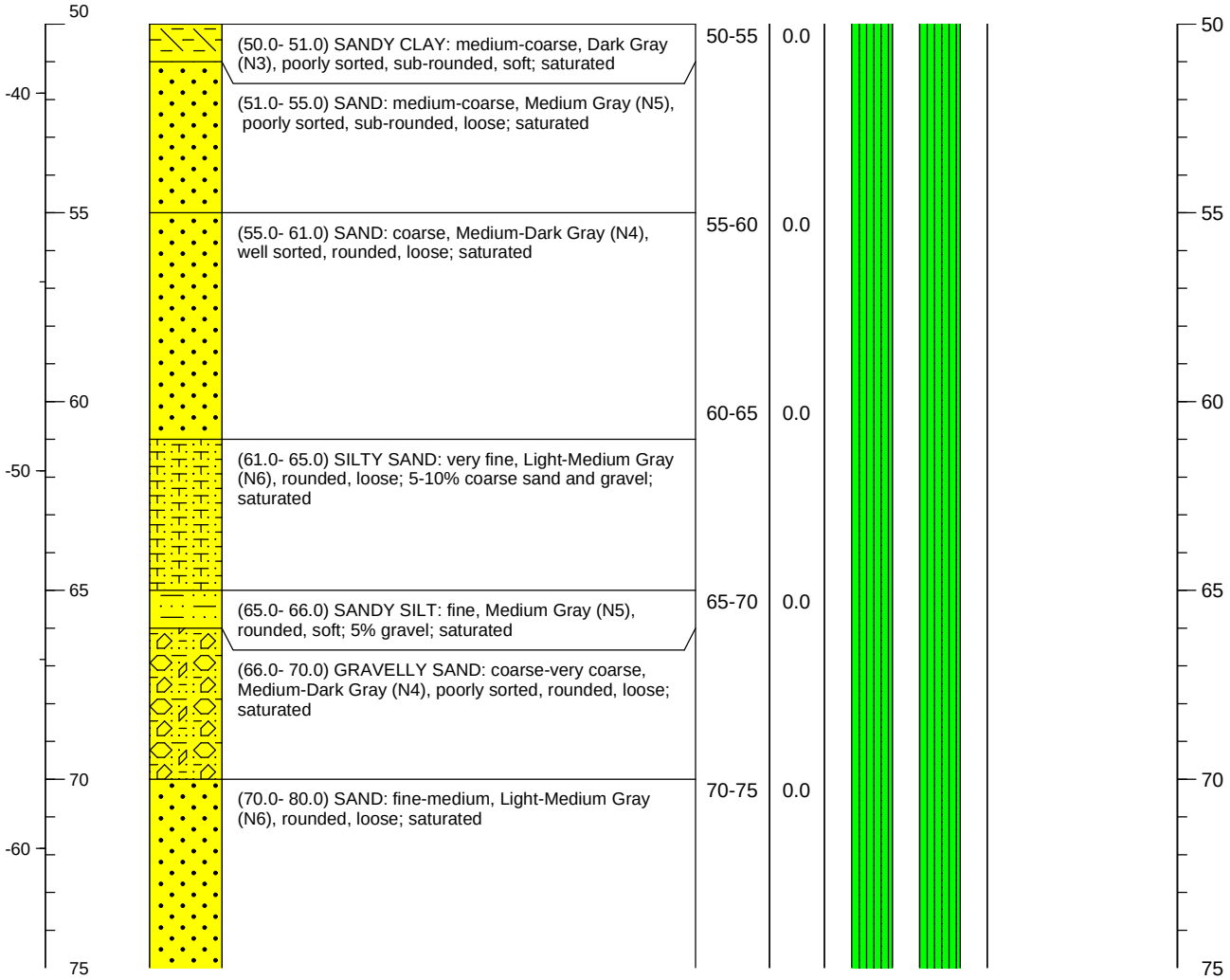
LITHOLOGY **SAMPLING DATA**



Water level in completed well

Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**MW-40D**
Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Rousie SR1 w/Detric Head**	Northing **424362.733** Easting **869354.345** Well Screen Interval **100-110 ft**	Ground Surface Elevation **11.83** Top of Well Casing Elevation **14.27**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **110 ft**
Logged By **R. McLain** Approved By **R. Cate**	Date Drilling Started **3/24/10**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **150 ft** Boring Dia. **6 in.**
Driller Name **B. Niles** Project Number **WBS30012B1**	Date Drilling Completed **3/26/10**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

LITHOLOGY **SAMPLING DATA**

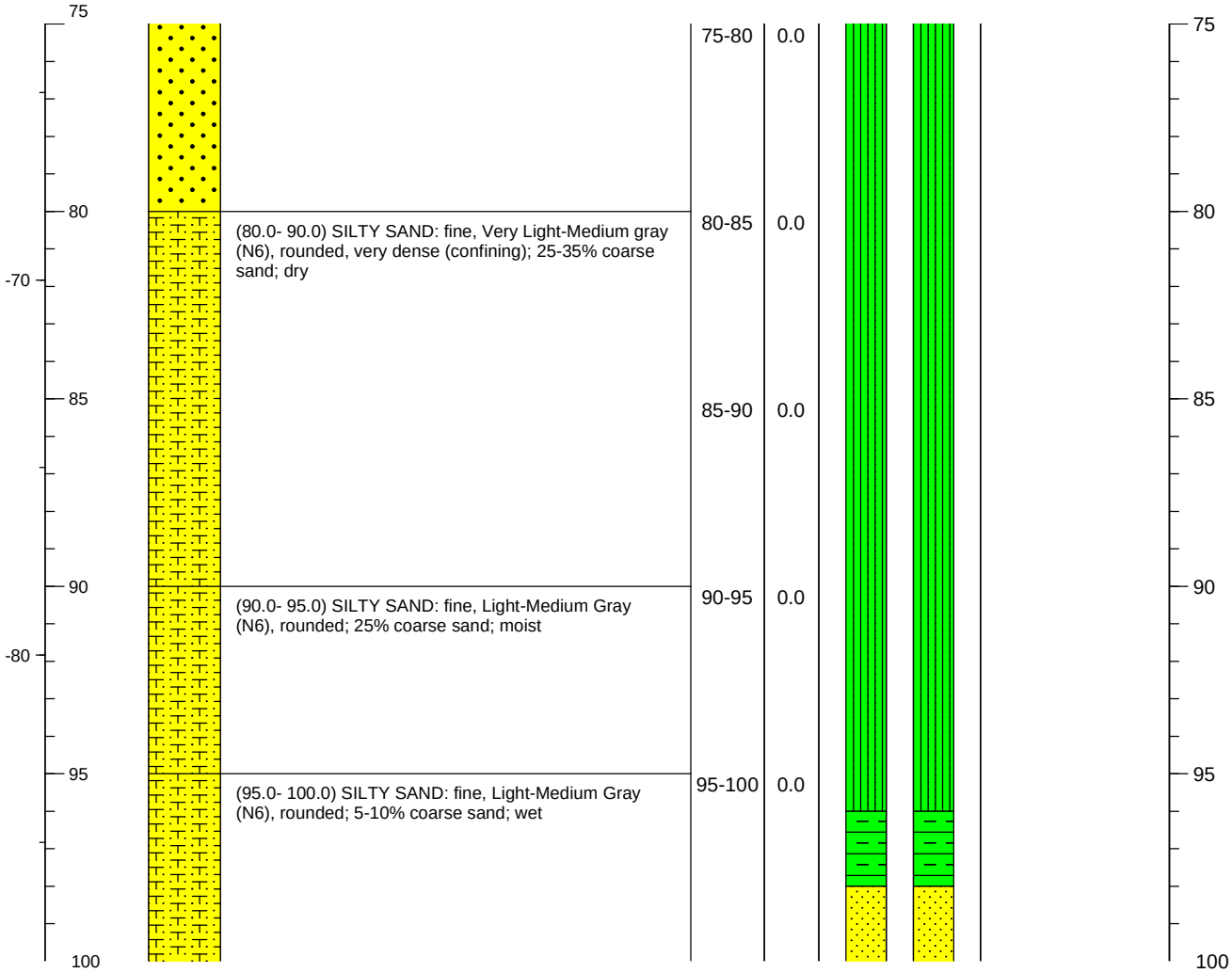


Water level in completed well

Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**MW-40D**

Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Rousie SR1 w/Detric Head**	Northing **424362.733** Easting **869354.345** Well Screen Interval **100-110 ft**	Ground Surface Elevation **11.83** Top of Well Casing Elevation **14.27**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **110 ft**
Logged By **R. McLain** Approved By **R. Cate**	Date Drilling Started **3/24/10**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **150 ft** Boring Dia. **6 in.**
Driller Name **B. Niles** Project Number **WBS30012B1**	Date Drilling Completed **3/26/10**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

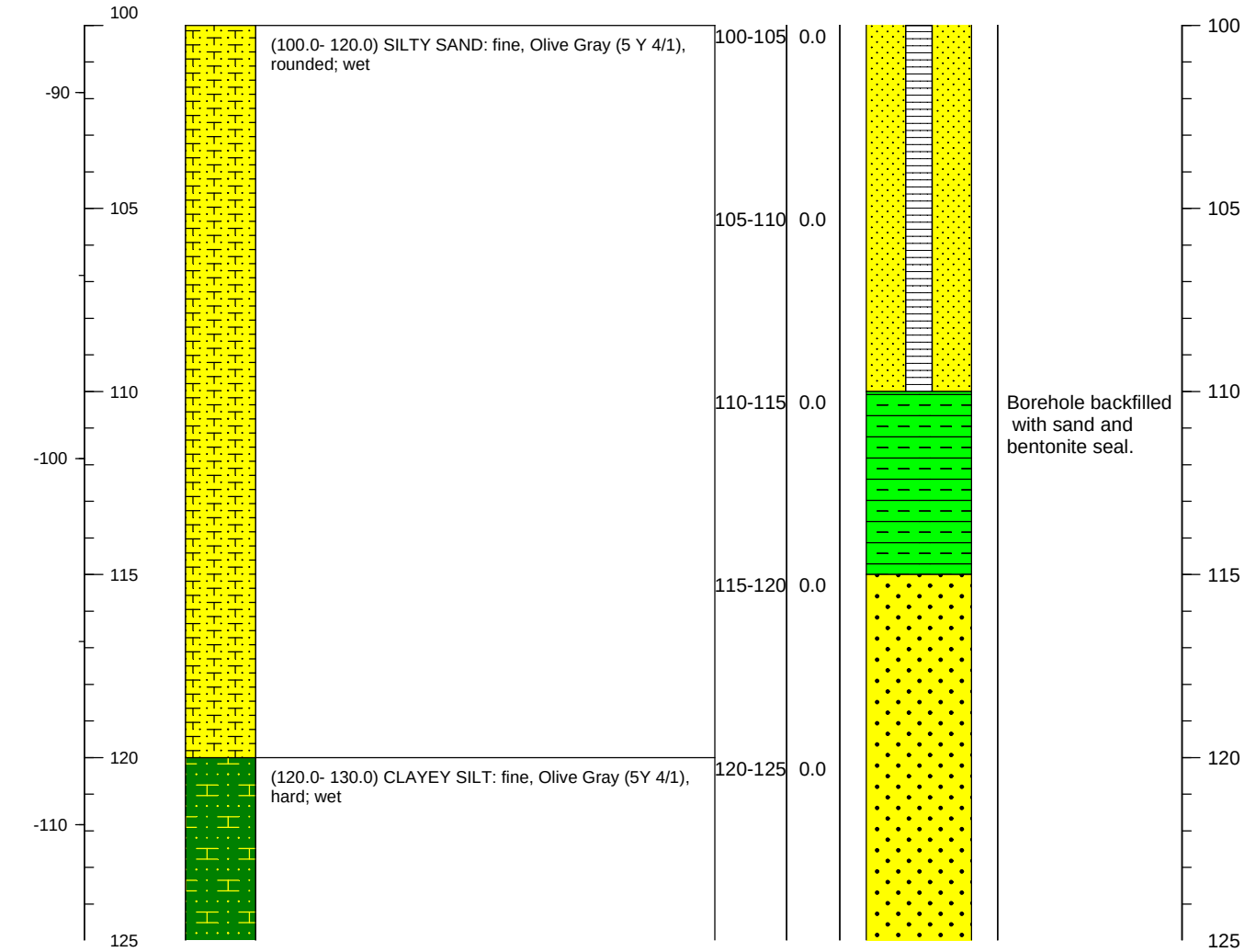
LITHOLOGY **SAMPLING DATA**



Water level in completed well

Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**MW-40D**
Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Rousie SR1 w/Detric Head**	Northing **424362.733** Easting **869354.345** Well Screen Interval **100-110 ft**	Ground Surface Elevation **11.83** Top of Well Casing Elevation **14.27**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **110 ft**
Logged By **R. McLain** Approved By **R. Cate**	Date Drilling Started **3/24/10**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **150 ft** Boring Dia. **6 in.**
Driller Name **B. Niles** Project Number **WBS30012B1**	Date Drilling Completed **3/26/10**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

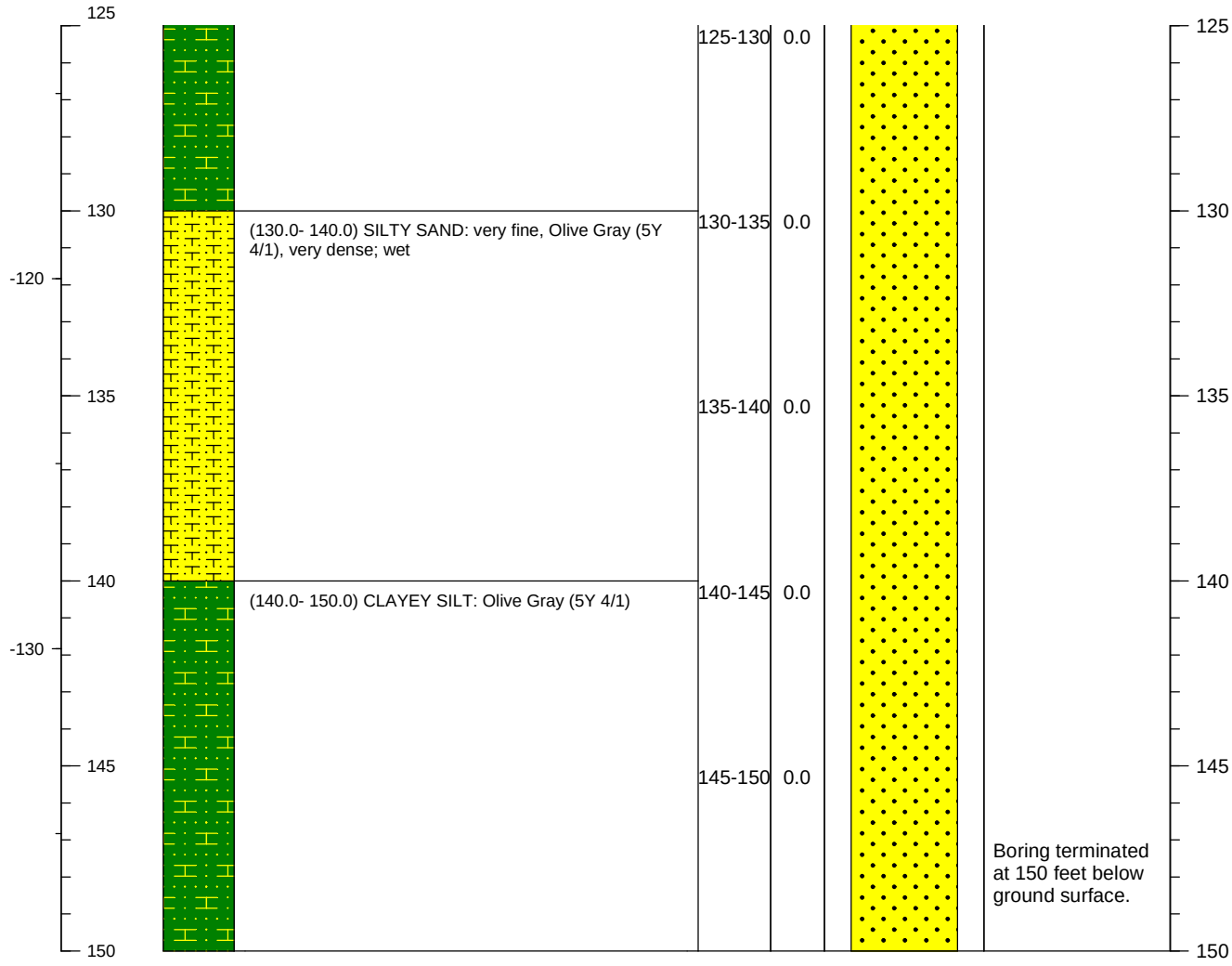
LITHOLOGY **SAMPLING DATA**



Water level in completed well

Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**MW-40D**
Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Rousie SR1 w/Detric Head**	Northing **424362.733** Easting **869354.345** Well Screen Interval **100-110 ft**	Ground Surface Elevation **11.83** Top of Well Casing Elevation **14.27**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **110 ft**
Logged By **R. McLain** Approved By **R. Cate**	Date Drilling Started **3/24/10**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **150 ft** Boring Dia. **6 in.**
Driller Name **B. Niles** Project Number **WBS30012B1**	Date Drilling Completed **3/26/10**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

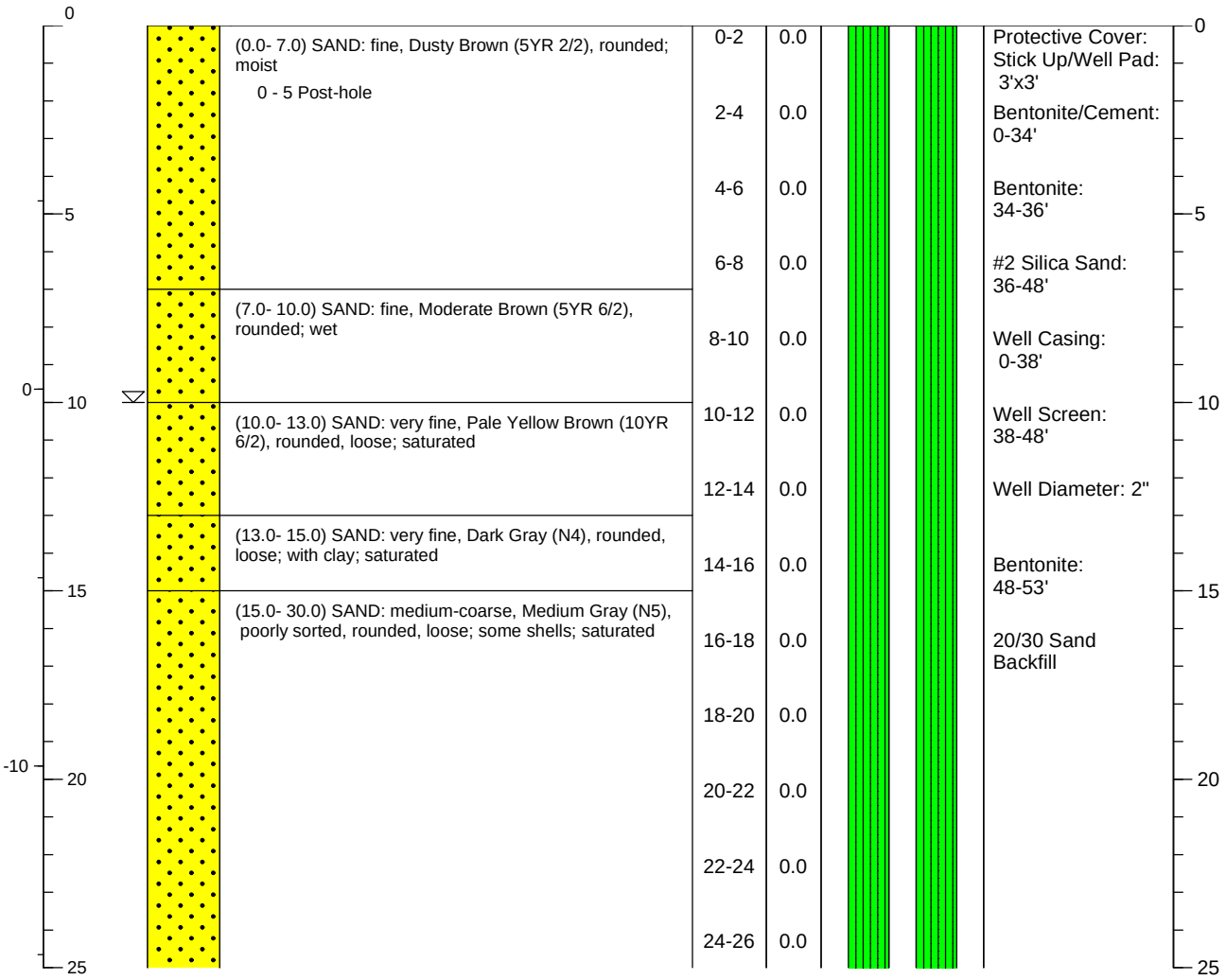
LITHOLOGY **SAMPLING DATA**



Water level in completed well

Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**MW-41I**
Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Rousie SR1 w/Detric Head**	Northing **425872.090** Easting **871633.340** Well Screen Interval **38-48 ft**	Ground Surface Elevation **9.65** Top of Well Casing Elevation **12.35**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **48 ft**
Logged By **R. McLain** Approved By **R. Cate**	Date Drilling Started **3/18/10**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **100 ft** Boring Dia. **6 in.**
Driller Name **B. Niles** Project Number **WBS30012B1**	Date Drilling Completed **3/19/10**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

LITHOLOGY **SAMPLING DATA**

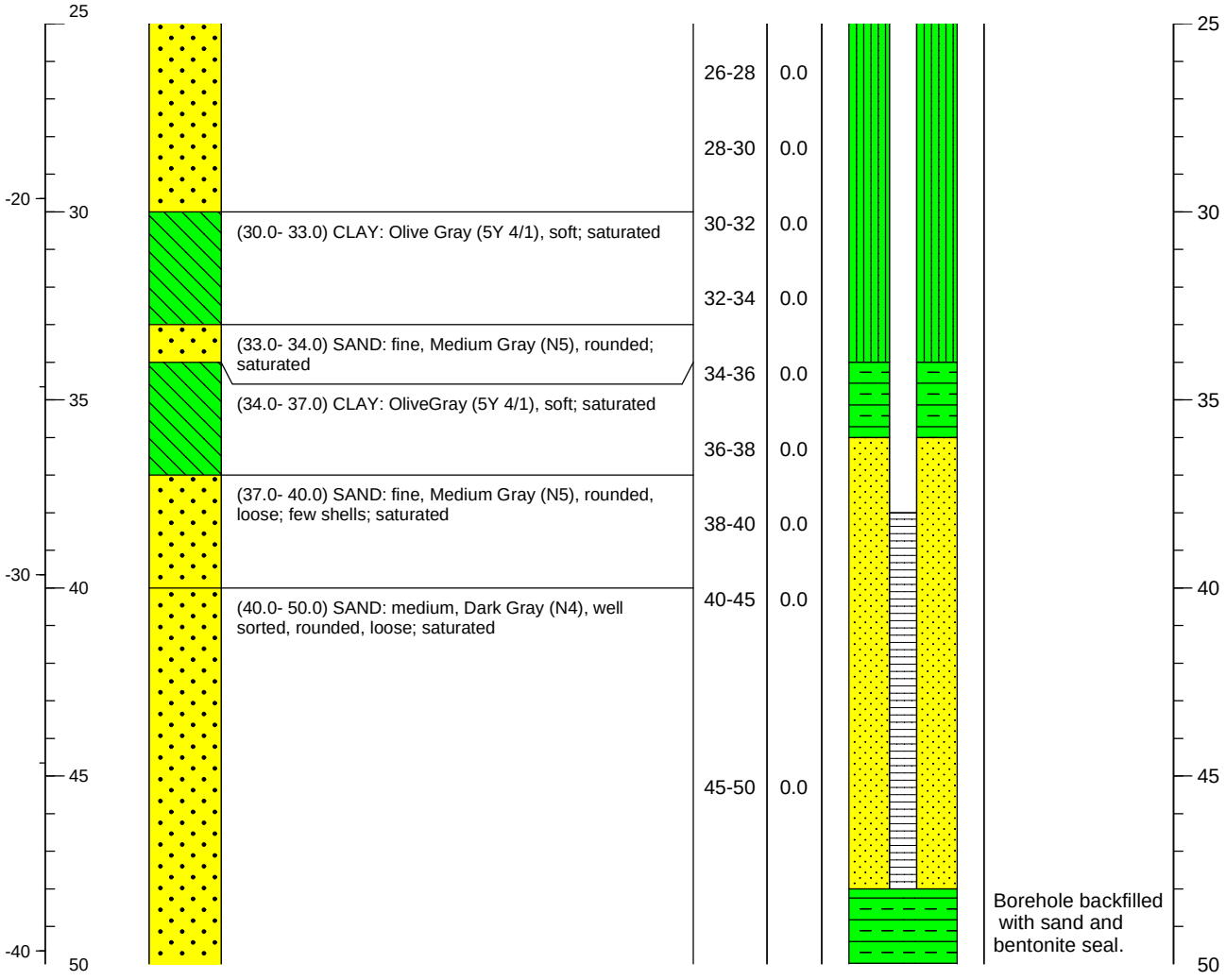


Water level in completed well

Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**MW-41I**

Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Rousie SR1 w/Detric Head**	Northing **425872.090** Easting **871633.340** Well Screen Interval **38-48 ft**	Ground Surface Elevation **9.65** Top of Well Casing Elevation **12.35**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **48 ft**
Logged By **R. McLain** Approved By **R. Cate**	Date Drilling Started **3/18/10**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **100 ft** Boring Dia. **6 in.**
Driller Name **B. Niles** Project Number **WBS30012B1**	Date Drilling Completed **3/19/10**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

LITHOLOGY **SAMPLING DATA**

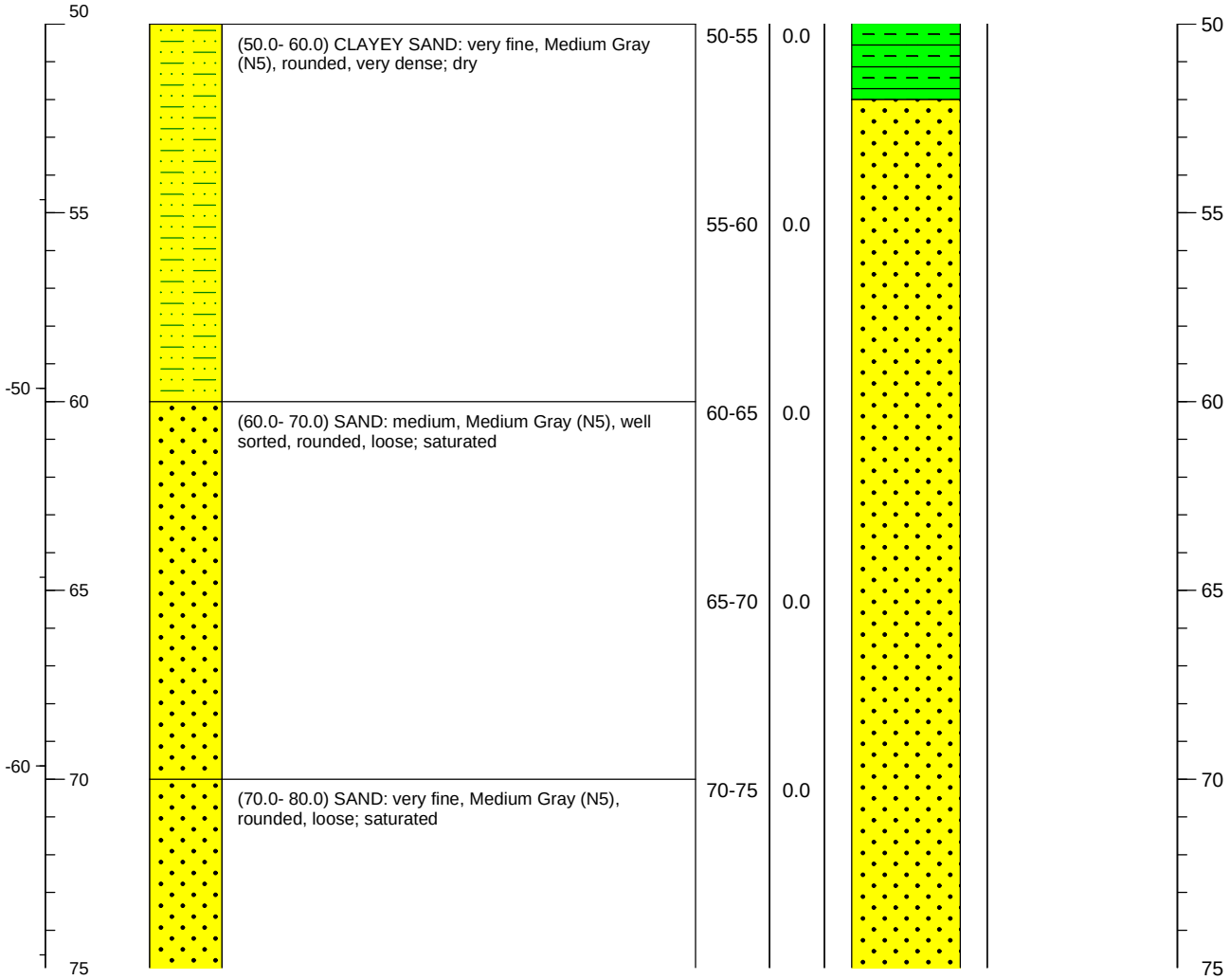


Water level in completed well

Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**MW-41I**

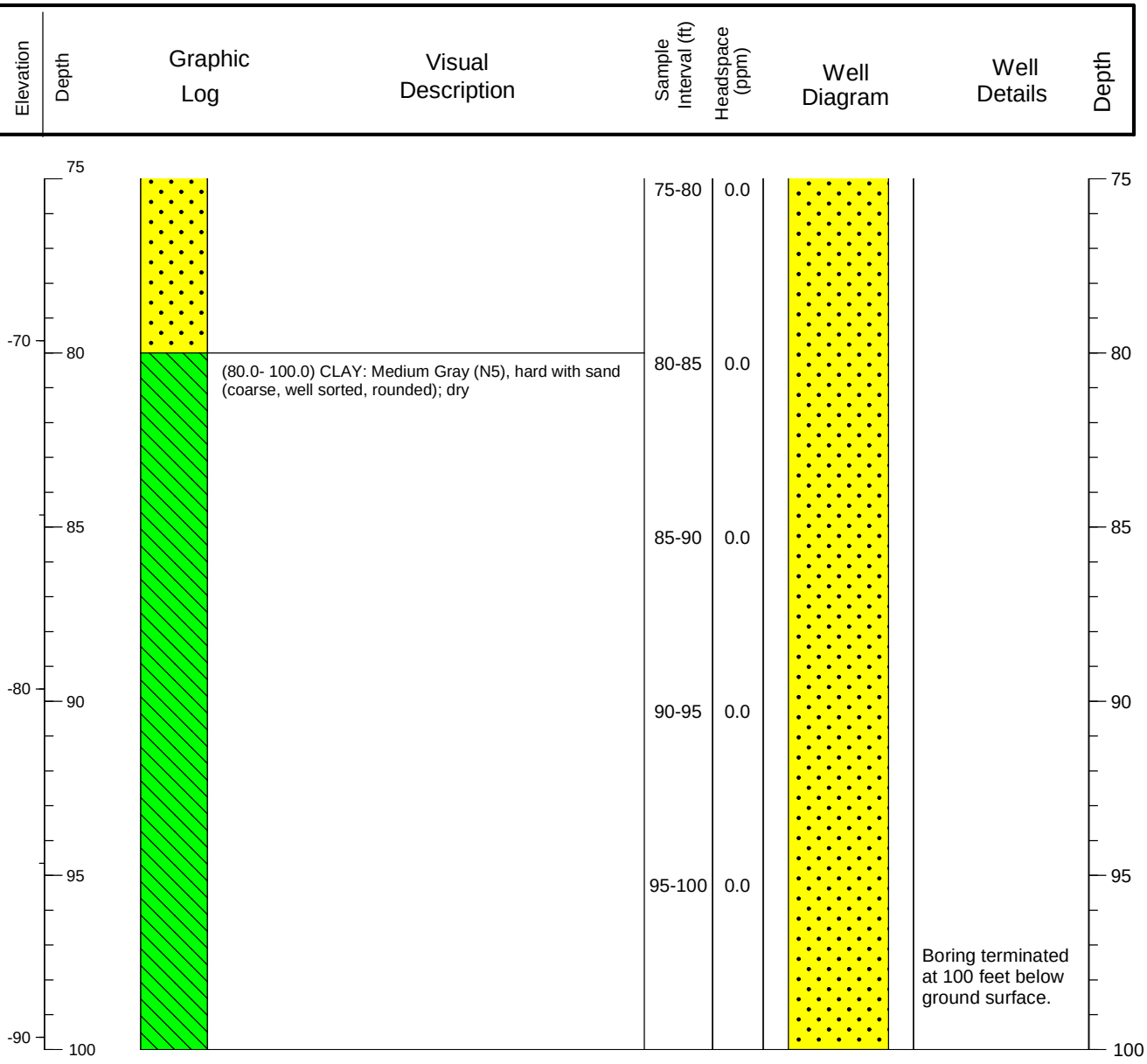
Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Rousie SR1 w/Detric Head**	Northing **425872.090** Easting **871633.340** Well Screen Interval **38-48 ft**	Ground Surface Elevation **9.65** Top of Well Casing Elevation **12.35**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **48 ft**
Logged By **R. McLain** Approved By **R. Cate**	Date Drilling Started **3/18/10**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **100 ft** Boring Dia. **6 in.**
Driller Name **B. Niles** Project Number **WBS30012B1**	Date Drilling Completed **3/19/10**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

LITHOLOGY **SAMPLING DATA**



Water level in completed well

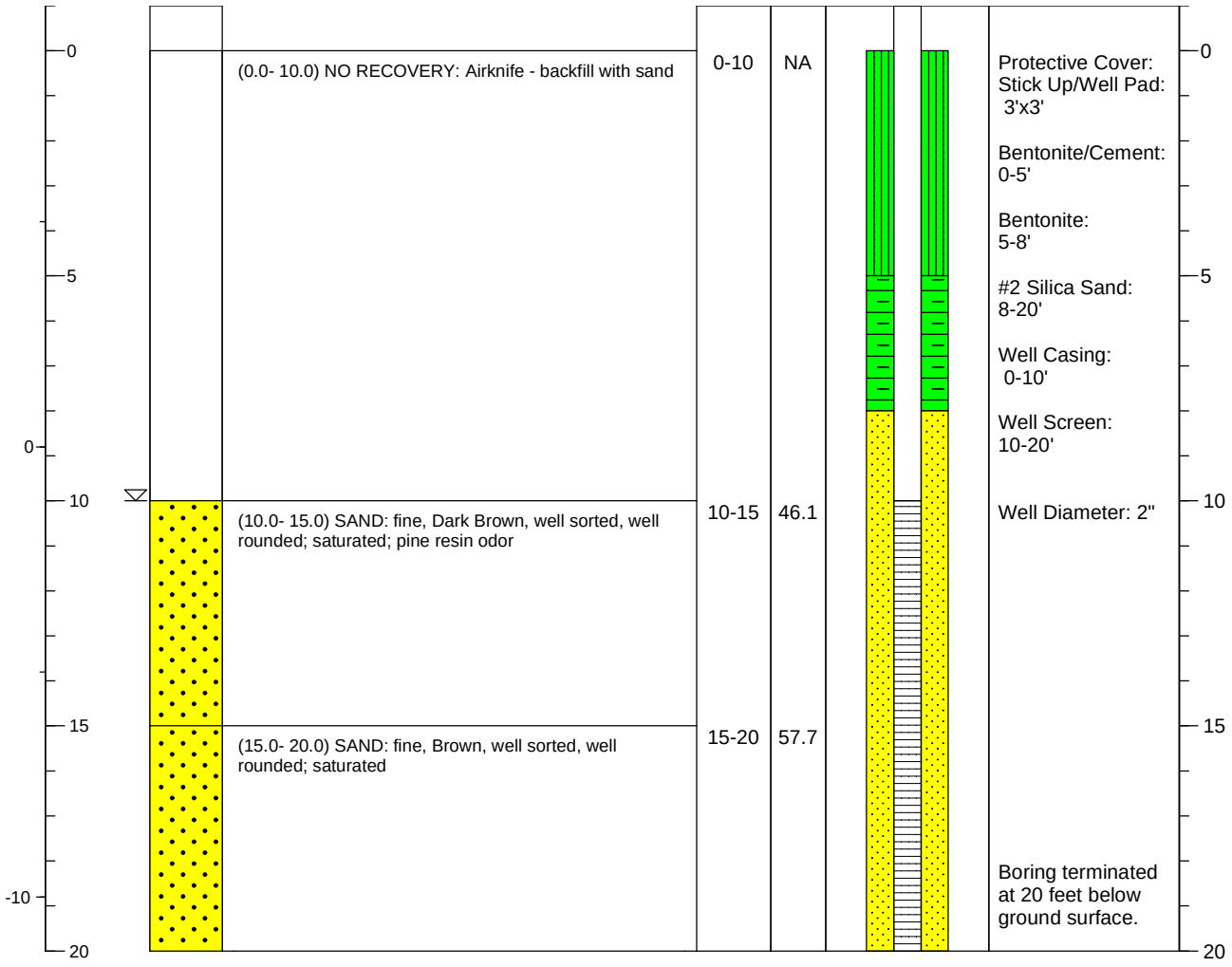
Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**MW-41I**
Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Rousie SR1 w/Detric Head**	Northing **425872.090** Easting **871633.340** Well Screen Interval **38-48 ft**	Ground Surface Elevation **9.65** Top of Well Casing Elevation **12.35**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **48 ft**
Logged By **R. McLain** Approved By **R. Cate**	Date Drilling Started **3/18/10**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **100 ft** Boring Dia. **6 in.**
Driller Name **B. Niles** Project Number **WBS30012B1**	Date Drilling Completed **3/19/10**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**



Water level in completed well

Project Name	Monitoring Well Construction Log	Well Number
Former Hercules Brunswick Facility Georgia		MW-42S

Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Boart Longyear** Drilling Equipment **Mini Sonic**	Northing **424651.6** Easting **870489.3** Well Screen Interval **10 - 20 ft**	Ground Surface Elevation **8.80** Top of Well Casing Elevation **11.52**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **20 ft**
Logged By **R. McLain** Approved By **D. Salisbury**	Date Drilling Started **3/21/12**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **20 ft** Boring Dia. **4 in. / 6 in.**
Driller Name **J. Sousa** Project Number **WBS30012B1**	Date Drilling Completed **3/27/12**	Sampling Method **4" Continuous Cores**	Headspace Monitoring Device **PID**



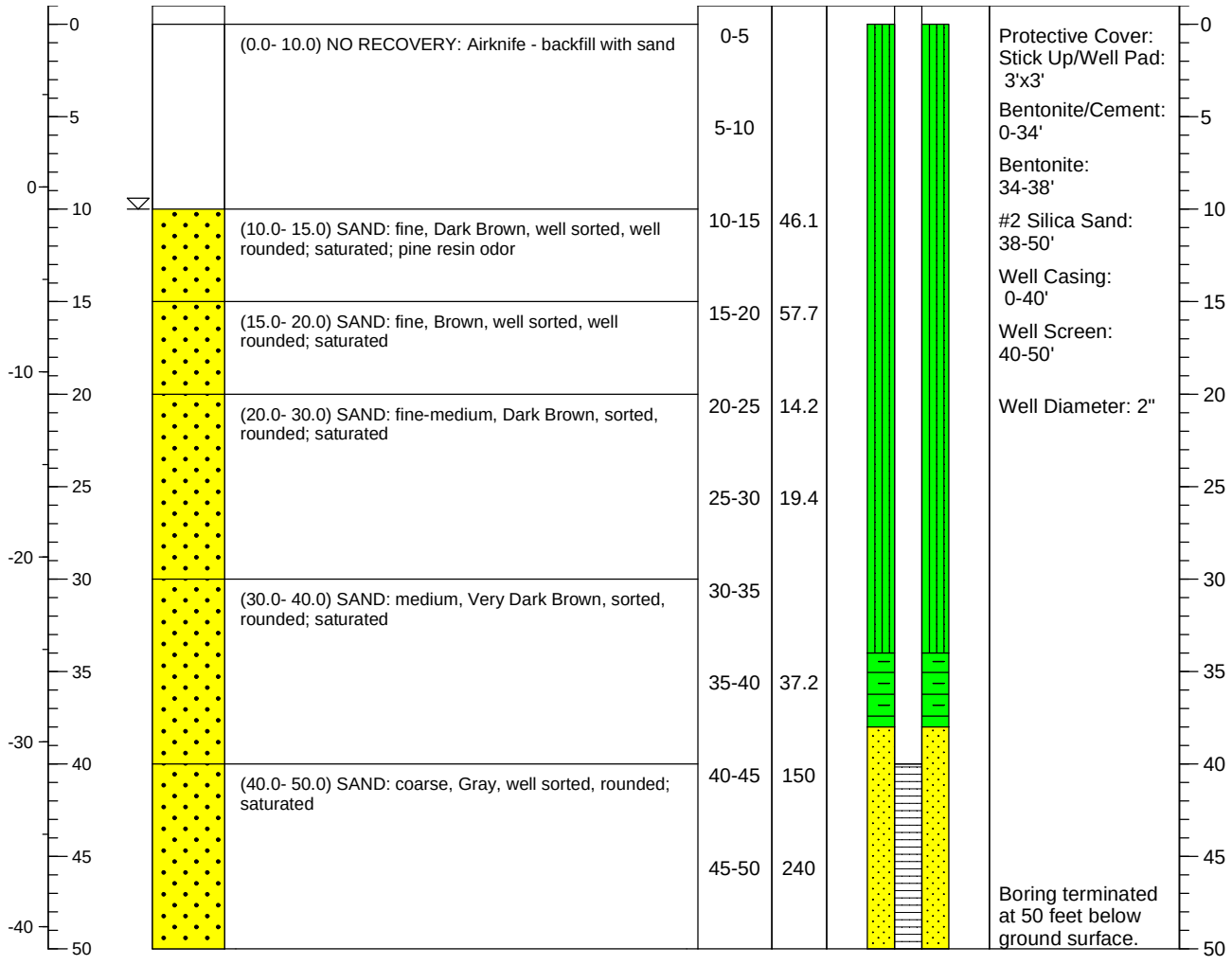
Water level in completed well

Project Name	Monitoring Well Construction Log	Well Number
Former Hercules Brunswick Facility Georgia		MW-42I

Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Boart Longyear** Drilling Equipment **Boart Big Rig**	Northing **424643.9** Easting **870491.4** Well Screen Interval **40 - 50 ft**	Ground Surface Elevation **8.80** Top of Well Casing Elevation **11.43**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **50 ft**
Logged By **R. McLain** Approved By **R. Cate**	Date Drilling Started **3/21/12**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **50 ft** Boring Dia. **4 in / 6 in.**
Driller Name **J. Sousa** Project Number **WBS30012B1**	Date Drilling Completed **3/27/12**	Sampling Method **4" Continuous Cores**	Headspace Monitoring Device **PID**

LITHOLOGY **SAMPLING DATA**

Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
0	0		(0.0- 10.0) NO RECOVERY: Airknife - backfill with sand	0-5			Protective Cover: Stick Up/Well Pad: 3'x3'	0
	5			5-10			Bentonite/Cement: 0-34'	5
	10		(10.0- 15.0) SAND: fine, Dark Brown, well sorted, well rounded; saturated; pine resin odor	10-15	46.1		Bentonite: 34-38'	10
	15		(15.0- 20.0) SAND: fine, Brown, well sorted, well rounded; saturated	15-20	57.7		#2 Silica Sand: 38-50'	15
-10	20		(20.0- 30.0) SAND: fine-medium, Dark Brown, sorted, rounded; saturated	20-25	14.2		Well Casing: 0-40'	20
	25			25-30	19.4		Well Screen: 40-50'	25
-20	30		(30.0- 40.0) SAND: medium, Very Dark Brown, sorted, rounded; saturated	30-35			Well Diameter: 2"	30
	35			35-40	37.2			35
-30	40		(40.0- 50.0) SAND: coarse, Gray, well sorted, rounded; saturated	40-45	150			40
	45			45-50	240		Boring terminated at 50 feet below ground surface.	45
-40	50							50



▽ Water level in completed well

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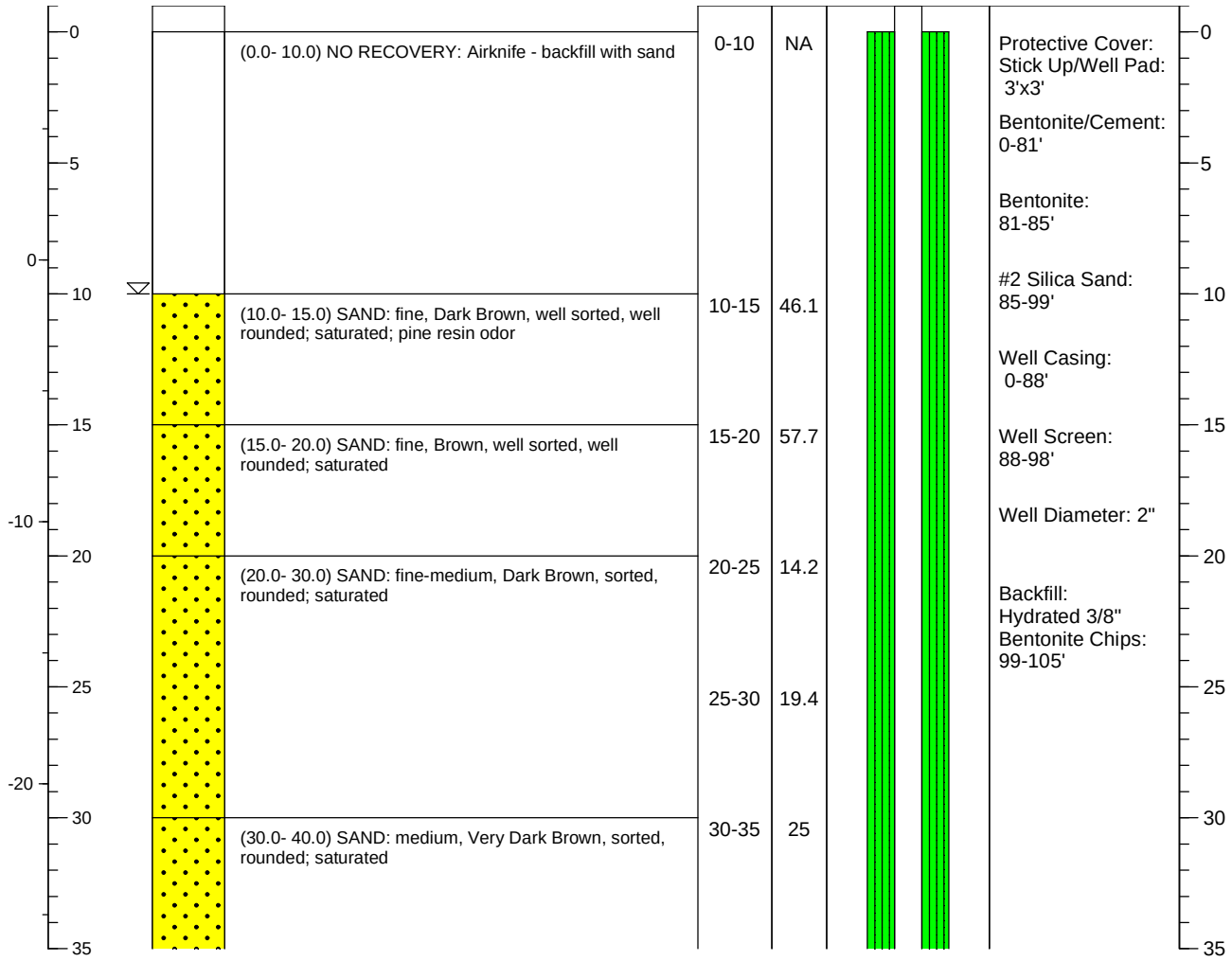
Project Name	Monitoring Well Construction Log	Well Number
Former Hercules Brunswick Facility Georgia		MW-42D

Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Boart Longyear** Drilling Equipment **Boart Big Rig**	Northing **424657.9** Easting **870487.0** Well Screen Interval **88 - 98 ft**	Ground Surface Elevation **8.70** Top of Well Casing Elevation **11.54**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **98 ft**
Logged By **R. McLain** Approved By **D. Salisbury**	Date Drilling Started **3/21/12**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **105 ft** Boring Dia. **4 in / 6 in.**
Driller Name **J. Sousa** Project Number **WBS30012B1**	Date Drilling Completed **3/27/12**	Sampling Method **4" Continuous Cores**	Headspace Monitoring Device **PID**

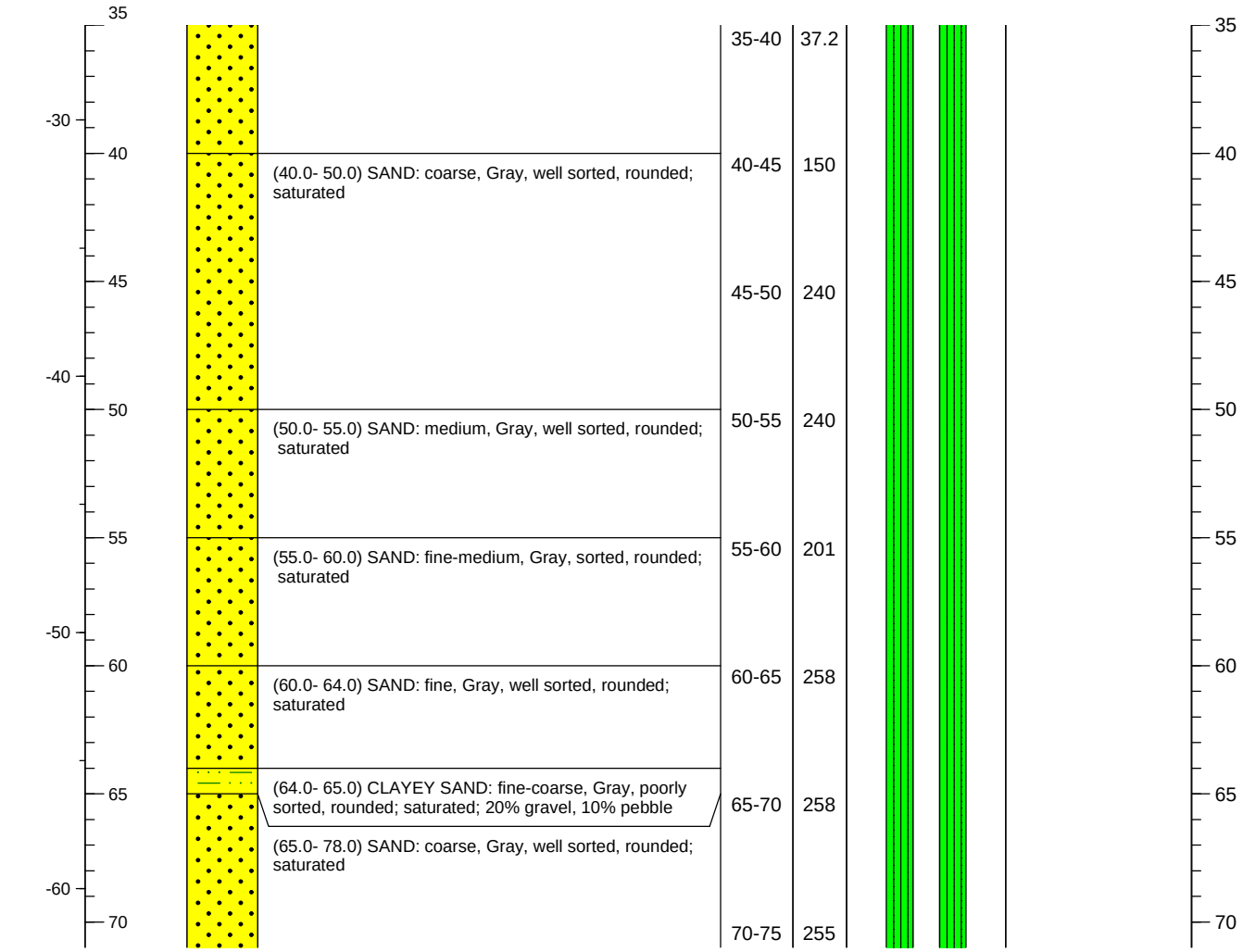


Water level in completed well

Project Name	Monitoring Well Construction Log	Well Number
Former Hercules Brunswick Facility Georgia		MW-42D

Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Boart Longyear** Drilling Equipment **Boart Big Rig**	Northing **424657.9** Easting **870487.0** Well Screen Interval **88 - 98 ft**	Ground Surface Elevation **8.70** Top of Well Casing Elevation **11.54**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **98 ft**
Logged By **R. McLain** Approved By **D. Salisbury**	Date Drilling Started **3/21/12**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **105 ft** Boring Dia. **4 in / 6 in.**
Driller Name **J. Sousa** Project Number **WBS30012B1**	Date Drilling Completed **3/27/12**	Sampling Method **4" Continuous Cores**	Headspace Monitoring Device **PID**

LITHOLOGY **SAMPLING DATA**

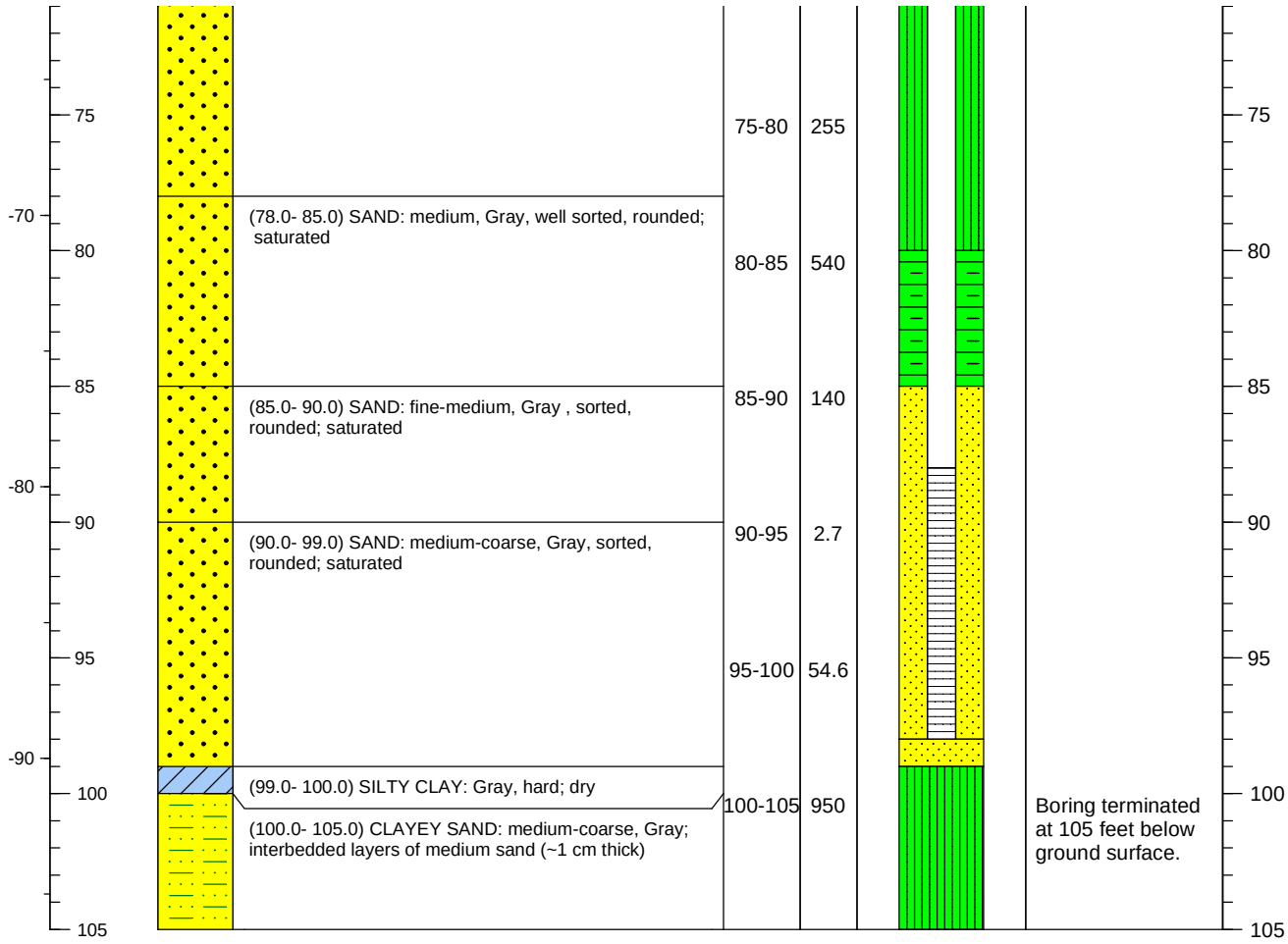


Water level in completed well

Project Name	Monitoring Well Construction Log	Well Number
Former Hercules Brunswick Facility Georgia		MW-42D

Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Boart Longyear** Drilling Equipment **Boart Big Rig**	Northing **424657.9** Easting **870487.0** Well Screen Interval **88 - 98 ft**	Ground Surface Elevation **8.70** Top of Well Casing Elevation **11.54**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **98 ft**
Logged By **R. McLain** Approved By **D. Salisbury**	Date Drilling Started **3/21/12**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **105 ft** Boring Dia. **4 in / 6 in.**
Driller Name **J. Sousa** Project Number **WBS30012B1**	Date Drilling Completed **3/27/12**	Sampling Method **4" Continuous Cores**	Headspace Monitoring Device **PID**

LITHOLOGY **SAMPLING DATA**



Water level in completed well

Project Name	Monitoring Well Construction Log	Well Number
Former Hercules Brunswick Facility Georgia		MW-43S

Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Boart Longyear** Drilling Equipment **Mini Sonic**	Northing **424639.3** Easting **871552.9** Well Screen Interval **10 - 20 ft**	Ground Surface Elevation **7.00** Top of Well Casing Elevation **9.94**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **20 ft**
Logged By **R. McLain** Approved By **D. Salisbury**	Date Drilling Started **3/27/12**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **20 ft.** Boring Dia. **4 in. / 6 in.**
Driller Name **J. Sousa** Project Number **WBS30012B1**	Date Drilling Completed **3/28/12**	Sampling Method **4" Continuous Cores**	Headspace Monitoring Device **PID**

LITHOLOGY **SAMPLING DATA**

Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
0	0		(0.0- 10.0) NO RECOVERY: Air Knife, backfill with sand	0-10	NA		Protective Cover: Stick Up/Well Pad: 3'x3' Bentonite/Cement: 0-5' Bentonite: 5-8' #2 Silica Sand: 8-20' Well Casing: 0-10' Well Screen: 10-20'	0
	5							5
0	10		(10.0- 15.0) SAND: fine,Tan, well sorted, rounded; saturated	10-15	0.0		Well Diameter: 2"	10
	15		(15.0- 20.0) SAND: fine, Brown, well sorted, rounded; saturated	15-20	0.0			15
-10							Boring terminated at 20 feet below ground surface.	
	20							20

▽ Water level in completed well

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Project Name	Monitoring Well Construction Log	Well Number
Former Hercules Brunswick Facility Georgia		MW-43I

Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Boart Longyear** Drilling Equipment **Boart Big Rig**	Northing **424637.4** Easting **871545.2** Well Screen Interval **40 - 50 ft**	Ground Surface Elevation **7.10** Top of Well Casing Elevation **9.93**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **50 ft**
Logged By **R. McLain** Approved By **D. Salisbury**	Date Drilling Started **3/27/12**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **50 ft.** Boring Dia. **4 in. / 6 in.**
Driller Name **J. Sousa** Project Number **WBS30012B1**	Date Drilling Completed **3/28/12**	Sampling Method **4" Continuous Cores**	Headspace Monitoring Device **PID**

LITHOLOGY **SAMPLING DATA**

Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
0	0		(0.0- 10.0) NO RECOVERY: Air Knife, backfill with sand	0-10			Protective Cover: Stick Up/Well Pad: 3'x3'	0
	5						Bentonite/Cement: 0-34'	5
0	10		(10.0- 15.0) SAND: fine,Tan, well sorted, rounded; saturated	10-15	0.0		Bentonite: 34-38'	10
	15		(15.0- 25.0) SAND: fine, Brown, well sorted, rounded; saturated	15-20	0.0		#2 Silica Sand: 38-50'	15
-10	20			20-25	0.0		Well Casing: 0-40'	20
	25		(25.0- 30.0) SAND: fine, Gray, well sorted, rounded; saturated	25-30	0.0		Well Screen: 40-50'	25
-20	30		(30.0- 35.0) SAND: medium, Gray, well sorted, rounded; saturated	30-35	0.0		Well Diameter: 2"	30
	35		(35.0- 40.0) SAND: fine-medium, Gray, sorted, rounded; saturated	35-40	0.0			35
-30	40		(40.0- 50.0) SAND: coarse, Gray, well sorted, rounded; saturated	40-45	0.0			40
	45			45-50	0.0		Boring terminated at 50 feet below ground surface.	45
-40	50							50

▽ Water level in completed well

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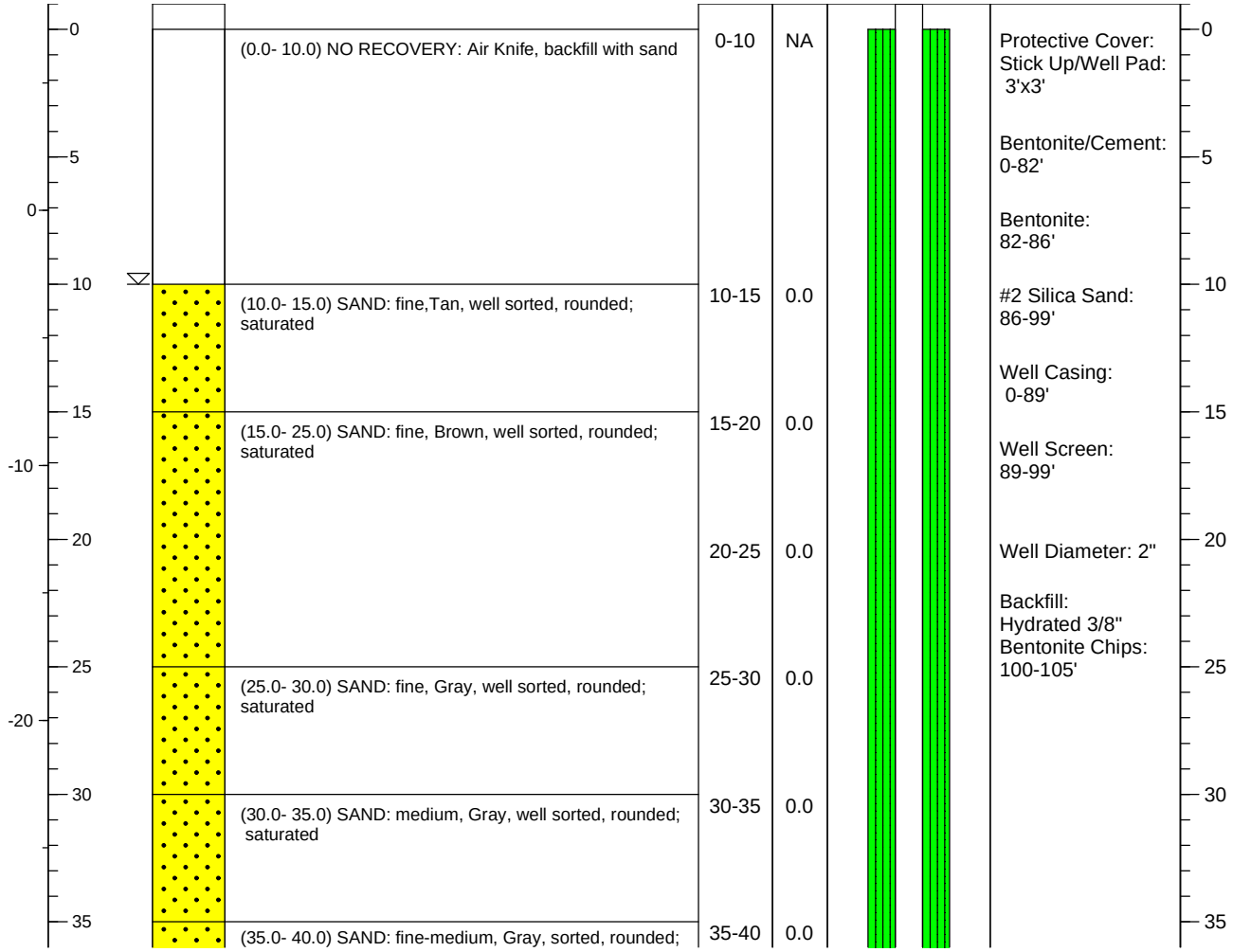
Project Name	Monitoring Well Construction Log	Well Number
Former Hercules Brunswick Facility Georgia		MW-43D

Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Boart Longyear** Drilling Equipment **Boart Big Rig**	Northing **424636.8** Easting **871537.0** Well Screen Interval **89 - 99 ft**	Ground Surface Elevation **7.10** Top of Well Casing Elevation **9.96**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **99 ft**
Logged By **R. McLain** Approved By **D. Salisbury**	Date Drilling Started **3/27/12**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **107 ft.** Boring Dia. **4 in. / 6 in.**
Driller Name **J. Sousa** Project Number **WBS30012B1**	Date Drilling Completed **3/28/12**	Sampling Method **4" Continuous Cores**	Headspace Monitoring Device **PID**



Water level in completed well

Project Name	Monitoring Well Construction Log	Well Number
Former Hercules Brunswick Facility Georgia		MW-43D

Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Boart Longyear** Drilling Equipment **Boart Big Rig**	Northing **424636.8** Easting **871537.0** Well Screen Interval **89 - 99 ft**	Ground Surface Elevation **7.10** Top of Well Casing Elevation **9.96**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **99 ft**
Logged By **R. McLain** Approved By **D. Salisbury**	Date Drilling Started **3/27/12**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **107 ft.** Boring Dia. **4 in. / 6 in.**
Driller Name **J. Sousa** Project Number **WBS30012B1**	Date Drilling Completed **3/28/12**	Sampling Method **4" Continuous Cores**	Headspace Monitoring Device **PID**

LITHOLOGY **SAMPLING DATA**

Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
-30	40		saturated					40
			(40.0- 55.0) SAND: coarse, Gray, well sorted, rounded; saturated	40-45	0.0			
	45			45-50	0.0			45
-40								
	50			50-55	0.0			50
	55		(55.0- 60.0) SAND: medium, Dark Gray, well sorted, rounded; saturated	55-60	0.0			55
-50								
	60		(60.0- 65.0) SAND: fine, Dark Gray, well sorted, rounded; saturated	60-65	0.0			60
	65		(65.0- 75.0) SAND: coarse, Dark Gray, well sorted, rounded; saturated	65-70	0.0			65
-60								
	70			70-75	0.0			70

▼ Water level in completed well

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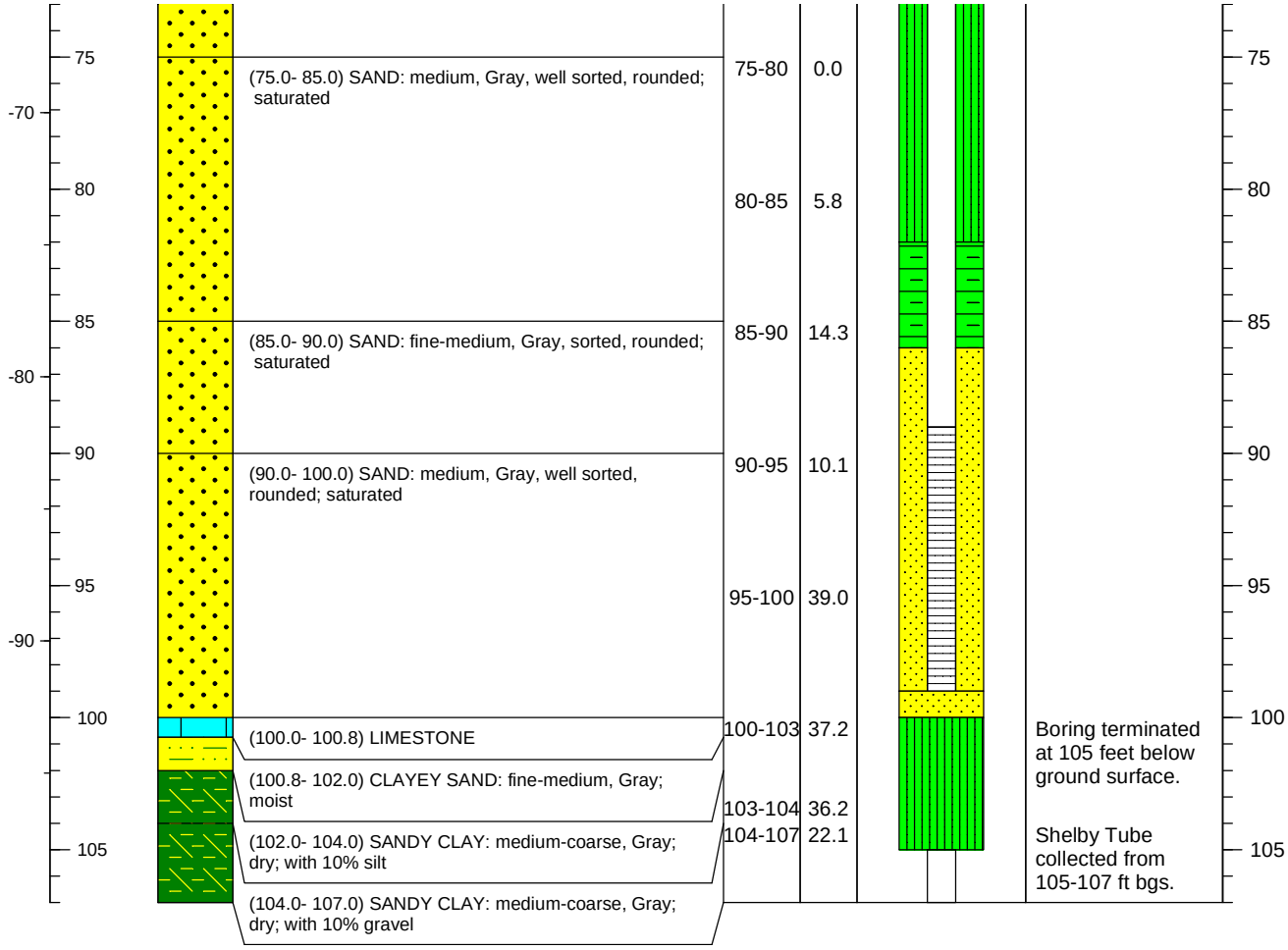
Project Name	Monitoring Well Construction Log	Well Number
Former Hercules Brunswick Facility Georgia		MW-43D

Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Boart Longyear** Drilling Equipment **Boart Big Rig**	Northing **424636.8** Easting **871537.0** Well Screen Interval **89 - 99 ft**	Ground Surface Elevation **7.10** Top of Well Casing Elevation **9.96**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **99 ft**
Logged By **R. McLain** Approved By **D. Salisbury**	Date Drilling Started **3/27/12**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **107 ft.** Boring Dia. **4 in. / 6 in.**
Driller Name **J. Sousa** Project Number **WBS30012B1**	Date Drilling Completed **3/28/12**	Sampling Method **4" Continuous Cores**	Headspace Monitoring Device **PID**

LITHOLOGY **SAMPLING DATA**

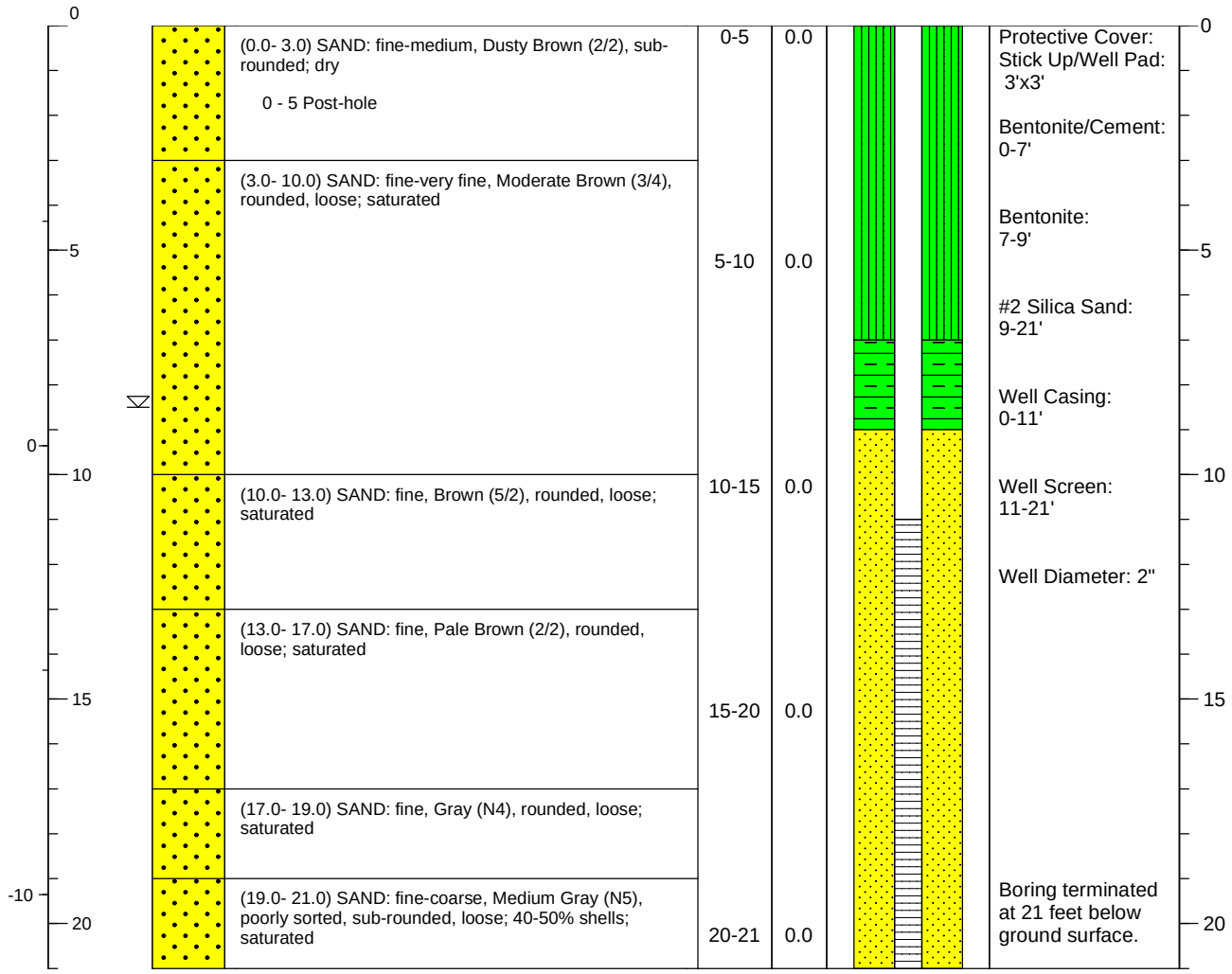


Water level in completed well

Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**MW-44S**

Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Rousie SR1 w/Detric Head**	Northing **424874.740** Easting **871756.290** Well Screen Interval **11-21 ft**	Ground Surface Elevation **9.36** Top of Well Casing Elevation **11.93**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **21 ft**
Logged By **R. McLain** Approved By **R. Cate**	Date Drilling Started **3/29/10**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **21 ft** Boring Dia. **6 in.**
Driller Name **B. Niles** Project Number **WBS30012B1**	Date Drilling Completed **3/31/10**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

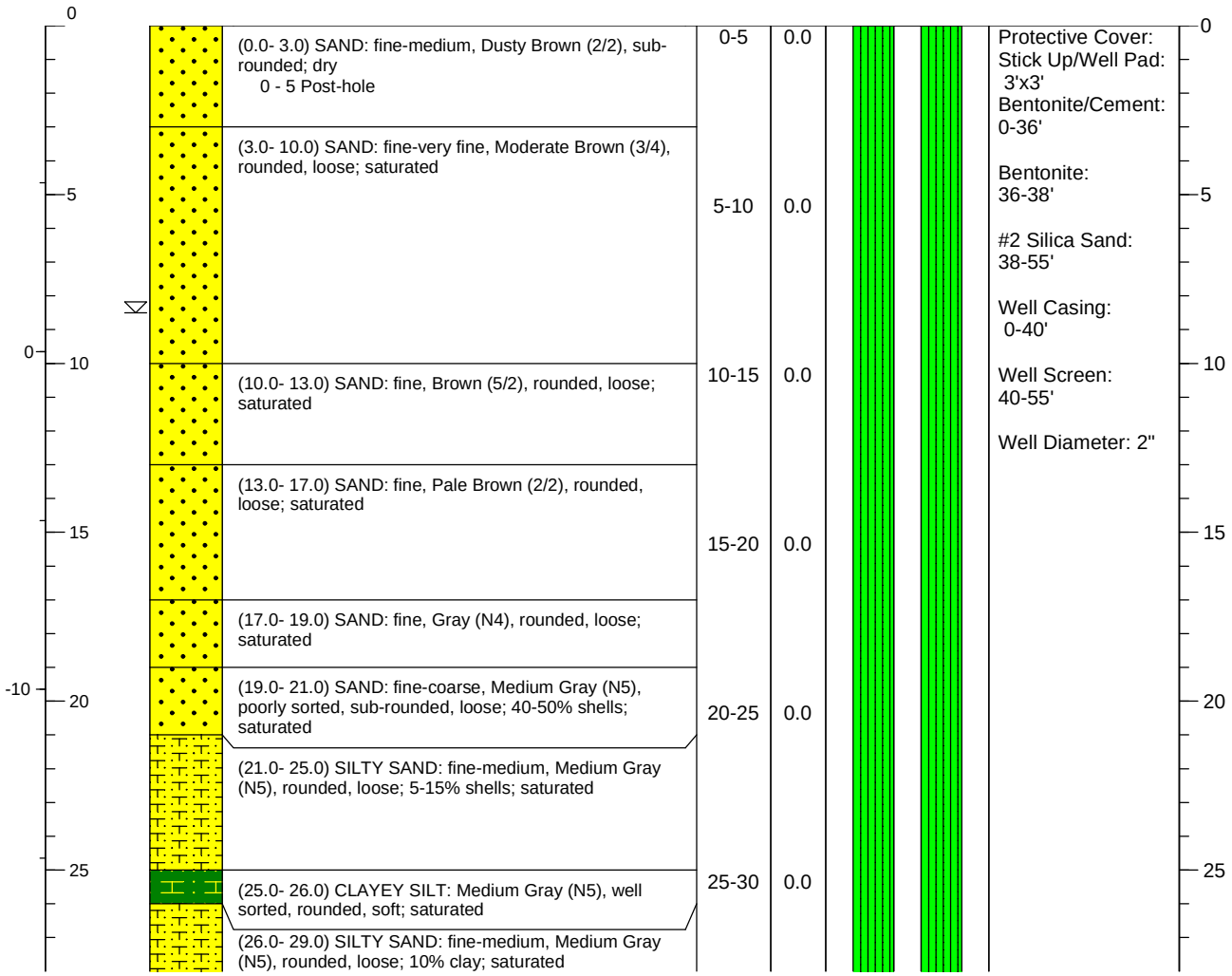
LITHOLOGY **SAMPLING DATA**



Water level in completed well

Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**MW-44I**
Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Rousie SR1 w/Detric Head**	Northing **425872.090** Easting **871633.340** Well Screen Interval **40-55 ft**	Ground Surface Elevation **9.65** Top of Well Casing Elevation **12.35**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **55 ft**
Logged By **R. McLain** Approved By **R. Cate**	Date Drilling Started **3/29/10**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **55 ft** Boring Dia. **6 in.**
Driller Name **B. Niles** Project Number **WBS30012B1**	Date Drilling Completed **3/31/10**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

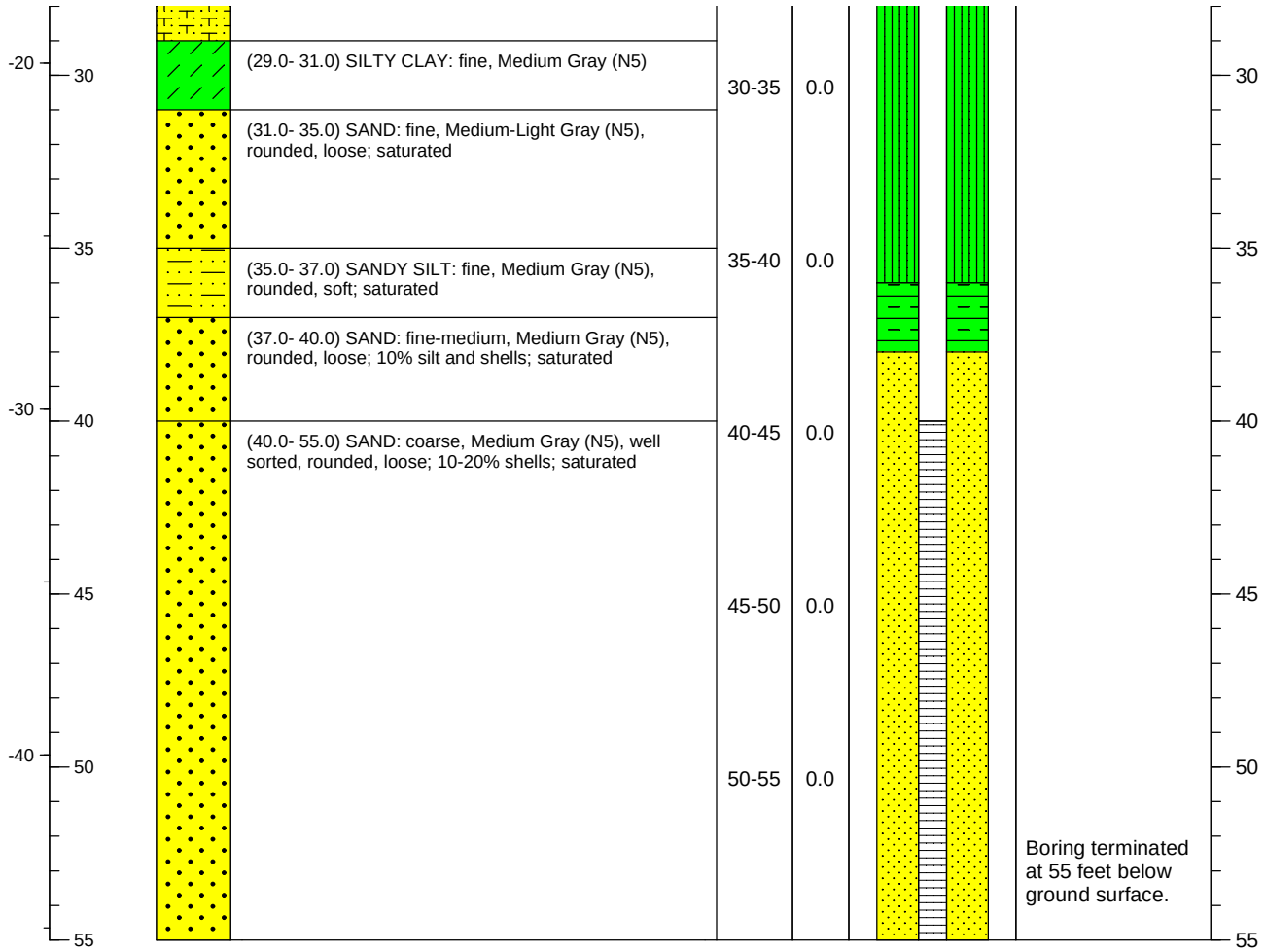
LITHOLOGY **SAMPLING DATA**



Water level in completed well

Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**MW-44I**
Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Rousie SR1 w/Detric Head**	Northing **425872.090** Easting **871633.340** Well Screen Interval **40-55 ft**	Ground Surface Elevation **9.65** Top of Well Casing Elevation **12.35**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **55 ft**
Logged By **R. McLain** Approved By **R. Cate**	Date Drilling Started **3/29/10**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **55 ft** Boring Dia. **6 in.**
Driller Name **B. Niles** Project Number **WBS30012B1**	Date Drilling Completed **3/31/10**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

LITHOLOGY **SAMPLING DATA**

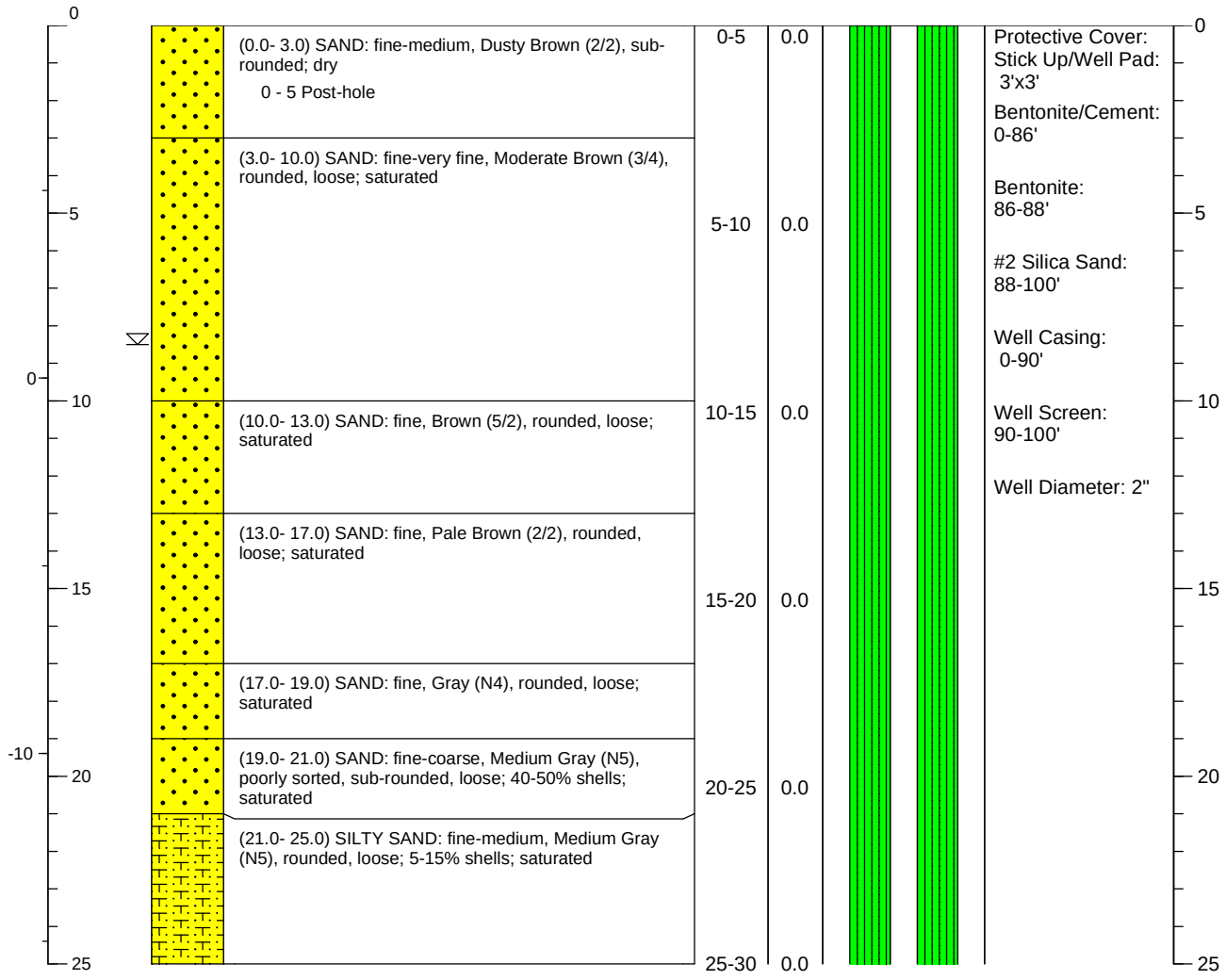


Water level in completed well

Project Name	Monitoring Well Construction Log	Well Number
Ashland Brunswick Georgia		**MW-44ID**

Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Rousie SR1 w/Detric Head**	Northing **424880.130** Easting **87153.280** Well Screen Interval **90-100 ft**	Ground Surface Elevation **9.39** Top of Well Casing Elevation **12.22**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **100 ft**
Logged By **R. McLain** Approved By **R. Cate**	Date Drilling Started **3/29/10**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **100 ft** Boring Dia. **6 in.**
Driller Name **B. Niles** Project Number **WBS30012B1**	Date Drilling Completed **3/30/10**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

LITHOLOGY **SAMPLING DATA**



Water level in completed well

Project Name	Monitoring Well Construction Log	Well Number
Ashland Brunswick Georgia		**MW-44ID**

Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Rousie SR1 w/Detric Head**	Northing **424880.130** Easting **87153.280** Well Screen Interval **90-100 ft**	Ground Surface Elevation **9.39** Top of Well Casing Elevation **12.22**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **100 ft**
Logged By **R. McLain** Approved By **R. Cate**	Date Drilling Started **3/29/10**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **100 ft** Boring Dia. **6 in.**
Driller Name **B. Niles** Project Number **WBS30012B1**	Date Drilling Completed **3/30/10**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

LITHOLOGY **SAMPLING DATA**

Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
	25		(25.0- 26.0) CLAYEY SILT: Medium Gray (N5), well sorted, rounded, soft; saturated	25-30	0.0			25
			(26.0- 29.0) SILTY SAND: fine-medium, Medium Gray (N5), rounded, loose; 10% clay; saturated					
-20	30		(29.0- 31.0) SILTY CLAY: fine, Medium Gray (N5)	30-35	0.0			30
			(31.0- 35.0) SAND: fine, Medium-Light Gray (N5), rounded, loose; saturated					
	35		(35.0- 37.0) SANDY SILT: fine, Medium Gray (N5), rounded, soft; saturated	35-40	0.0			35
			(37.0- 40.0) SAND: fine-medium, Medium Gray (N5), rounded, loose; 10% silt and shells; saturated					
-30	40		(40.0- 60.0) SAND: coarse, Medium Gray (N5), well sorted, rounded, loose; 10-20% shells; saturated	40-45	0.0			40
	45			45-50	0.0			45
-40	50							50

▼ Water level in completed well

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Project Name	Monitoring Well Construction Log	Well Number
Ashland Brunswick Georgia		**MW-44ID**

Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Rousie SR1 w/Detric Head**	Northing **424880.130** Easting **87153.280** Well Screen Interval **90-100 ft**	Ground Surface Elevation **9.39** Top of Well Casing Elevation **12.22**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **100 ft**
Logged By **R. McLain** Approved By **R. Cate**	Date Drilling Started **3/29/10**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **100 ft** Boring Dia. **6 in.**
Driller Name **B. Niles** Project Number **WBS30012B1**	Date Drilling Completed **3/30/10**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

LITHOLOGY **SAMPLING DATA**

Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
	50			50-55	0.0			50
	55			55-60	0.0			55
-50	60		(60.0- 63.0) SAND: medium, Medium-Dark Gray (N4), well sorted, rounded, loose; saturated	60-65	0.0			60
			(63.0- 65.0) SILTY SAND: very fine, Medium Gray (N5), rounded, very dense; 5-10% coarse sand; dry					
	65		(65.0- 68.0) SAND: coarse, Medium Gray (N5), well sorted, rounded, loose; 20% silt; saturated	65-70	0.0			65
-60			(68.0- 70.0) SANDY SILT: medium-coarse, Medium Gray (N5), poorly sorted, sub-rounded, hard; wet					
	70		(70.0- 73.0) SAND: coarse, Medium Gray (N5), well sorted, rounded, loose; saturated	70-75	0.0			70
			(73.0- 75.0) SILTY SAND: very fine-medium, Medium Gray (N5), sub-rounded, very dense; 20% coarse sand; dry					
	75							75

▼ Water level in completed well

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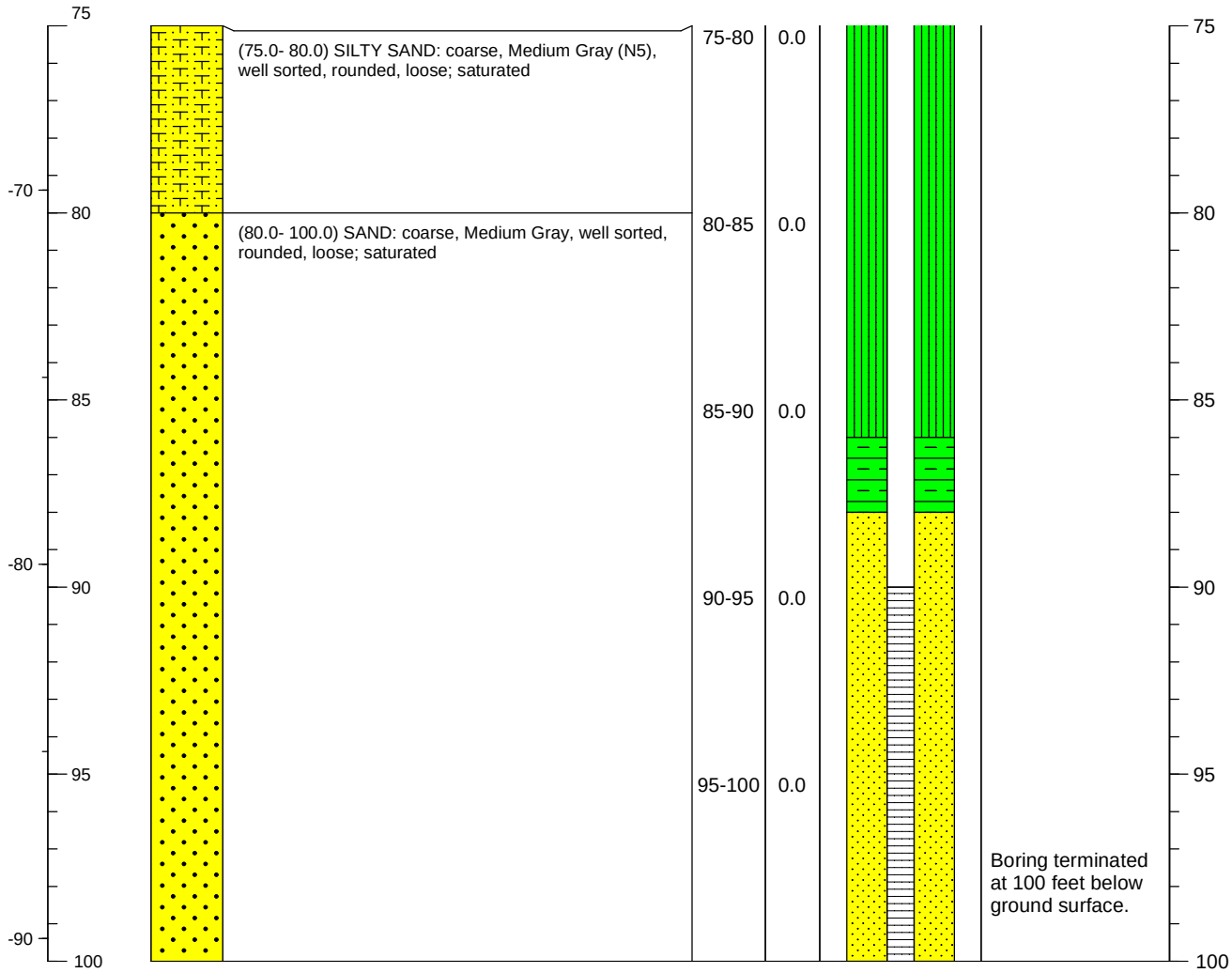
Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**MW-44ID**
Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Rousie SR1 w/Detric Head**	Northing **424880.130** Easting **87153.280** Well Screen Interval **90-100 ft**	Ground Surface Elevation **9.39** Top of Well Casing Elevation **12.22**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **100 ft**
Logged By **R. McLain** Approved By **R. Cate**	Date Drilling Started **3/29/10**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **100 ft** Boring Dia. **6 in.**
Driller Name **B. Niles** Project Number **WBS30012B1**	Date Drilling Completed **3/30/10**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

LITHOLOGY **SAMPLING DATA**

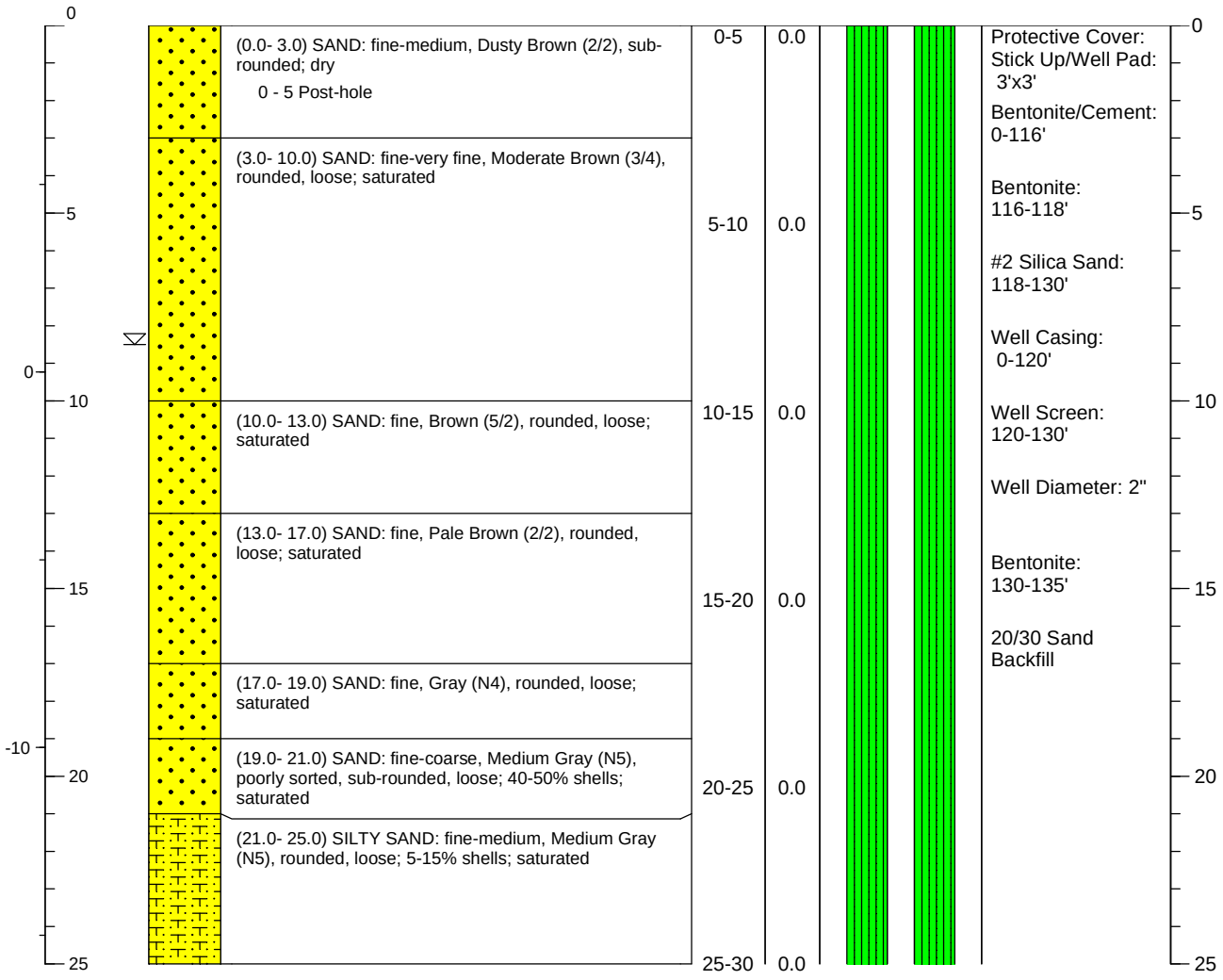


Water level in completed well

Project Name	Monitoring Well Construction Log	Well Number
Ashland Brunswick Georgia		**MW-44D**

Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Rousie SR1 w/Detric Head**	Northing **424883.450** Easting **871751.700** Well Screen Interval **120-130 ft**	Ground Surface Elevation **9.23** Top of Well Casing Elevation **12.07**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **130 ft**
Logged By **R. McLain** Approved By **R. Cate**	Date Drilling Started **3/29/10**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **150 ft** Boring Dia. **6 in.**
Driller Name **B. Niles** Project Number **WBS30012B1**	Date Drilling Completed **3/31/10**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

LITHOLOGY **SAMPLING DATA**



Water level in completed well

Project Name	Monitoring Well Construction Log	Well Number
Ashland Brunswick Georgia		**MW-44D**

Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Rousie SR1 w/Detric Head**	Northing **424883.450** Easting **871751.700** Well Screen Interval **120-130 ft**	Ground Surface Elevation **9.23** Top of Well Casing Elevation **12.07**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **130 ft**
Logged By **R. McLain** Approved By **R. Cate**	Date Drilling Started **3/29/10**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **150 ft** Boring Dia. **6 in.**
Driller Name **B. Niles** Project Number **WBS30012B1**	Date Drilling Completed **3/31/10**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

LITHOLOGY **SAMPLING DATA**

Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
	25		(25.0- 26.0) CLAYEY SILT: Medium Gray (N5), well sorted, rounded, soft; saturated	25-30	0.0			25
			(26.0- 29.0) SILTY SAND: fine-medium, Medium Gray (N5), rounded, loose; 10% clay; saturated					
-20	30		(29.0- 31.0) SILTY CLAY: fine, Medium Gray (N5)	30-35	0.0			30
			(31.0- 35.0) SAND: fine, Medium-Light Gray (N5), rounded, loose; saturated					
	35		(35.0- 37.0) SANDY SILT: fine, Medium Gray (N5), rounded, soft; saturated	35-40	0.0			35
-30			(37.0- 40.0) SAND: fine-medium, Medium Gray (N5), rounded, loose; 10% silt and shells; saturated					
	40		(40.0- 60.0) SAND: coarse, Medium Gray (N5), well sorted, rounded, loose; 10-20% shells; saturated	40-45	0.0			40
	45			45-50	0.0			45
-40	50							50

Water level in completed well

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Project Name	Monitoring Well Construction Log	Well Number
Ashland Brunswick Georgia		**MW-44D**

Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Rousie SR1 w/Detric Head**	Northing **424883.450** Easting **871751.700** Well Screen Interval **120-130 ft**	Ground Surface Elevation **9.23** Top of Well Casing Elevation **12.07**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **130 ft**
Logged By **R. McLain** Approved By **R. Cate**	Date Drilling Started **3/29/10**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **150 ft** Boring Dia. **6 in.**
Driller Name **B. Niles** Project Number **WBS30012B1**	Date Drilling Completed **3/31/10**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

LITHOLOGY **SAMPLING DATA**

Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
	50			50-55	0.0			50
	55			55-60	0.0			55
-50	60		(60.0- 63.0) SAND: medium, Medium-Dark Gray (N4), well sorted, rounded, loose; saturated	60-65	0.0			60
			(63.0- 65.0) SILTY SAND: very fine, Medium Gray (N5), rounded, very dense; 5-10% coarse sand; dry					
	65		(65.0- 68.0) SAND: coarse, Medium Gray (N5), well sorted, rounded, loose; 20% silt; saturated	65-70	0.0			65
-60			(68.0- 70.0) SANDY SILT: medium-coarse, Medium Gray (N5), poorly sorted, sub-rounded, hard; wet					
	70		(70.0- 73.0) SAND: coarse, Medium Gray (N5), well sorted, rounded, loose; saturated	70-75	0.0			70
			(73.0- 75.0) SILTY SAND: very fine-medium, Medium Gray (N5), sub-rounded, very dense; 20% coarse sand; dry					
	75							75

Water level in completed well

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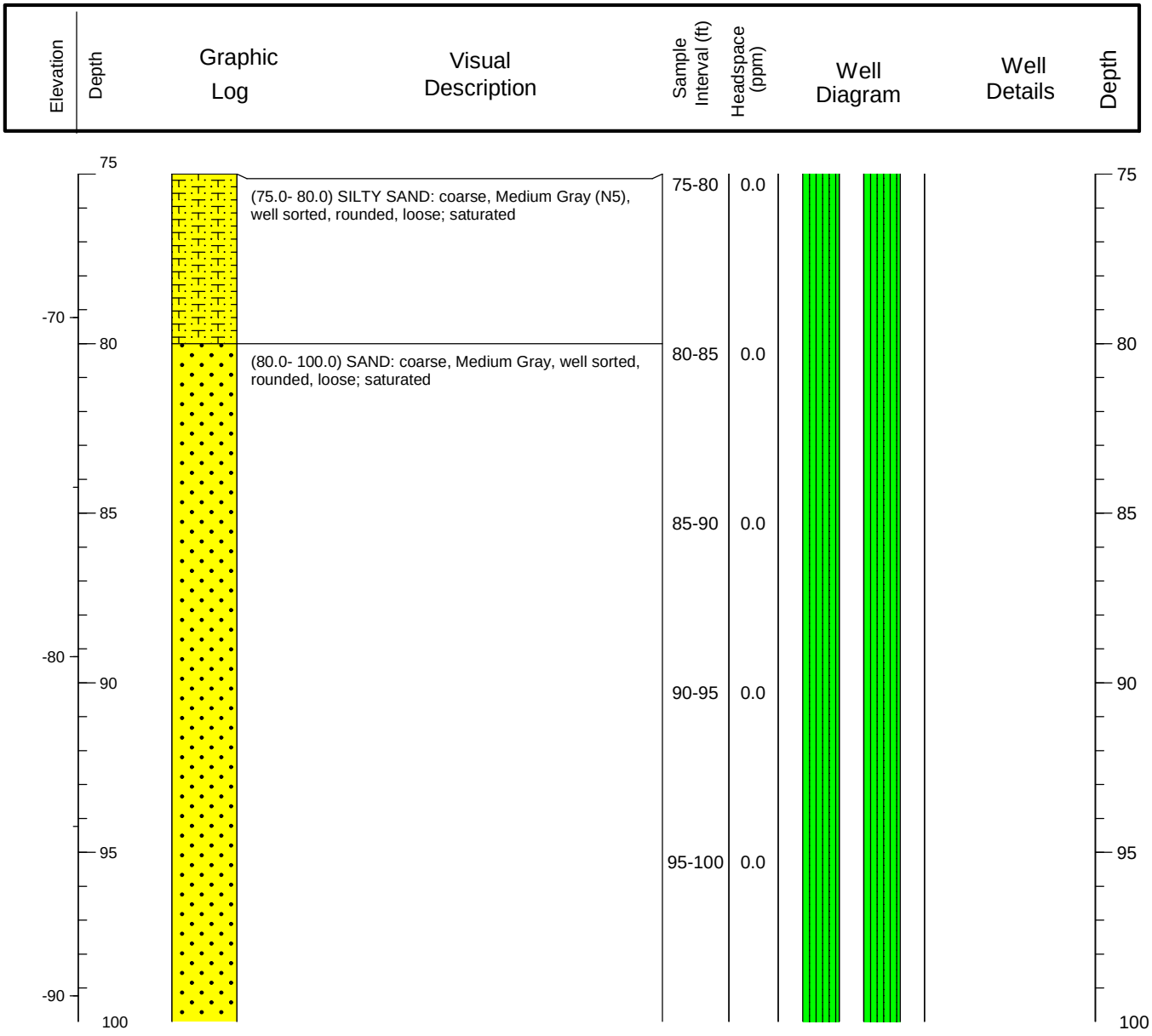
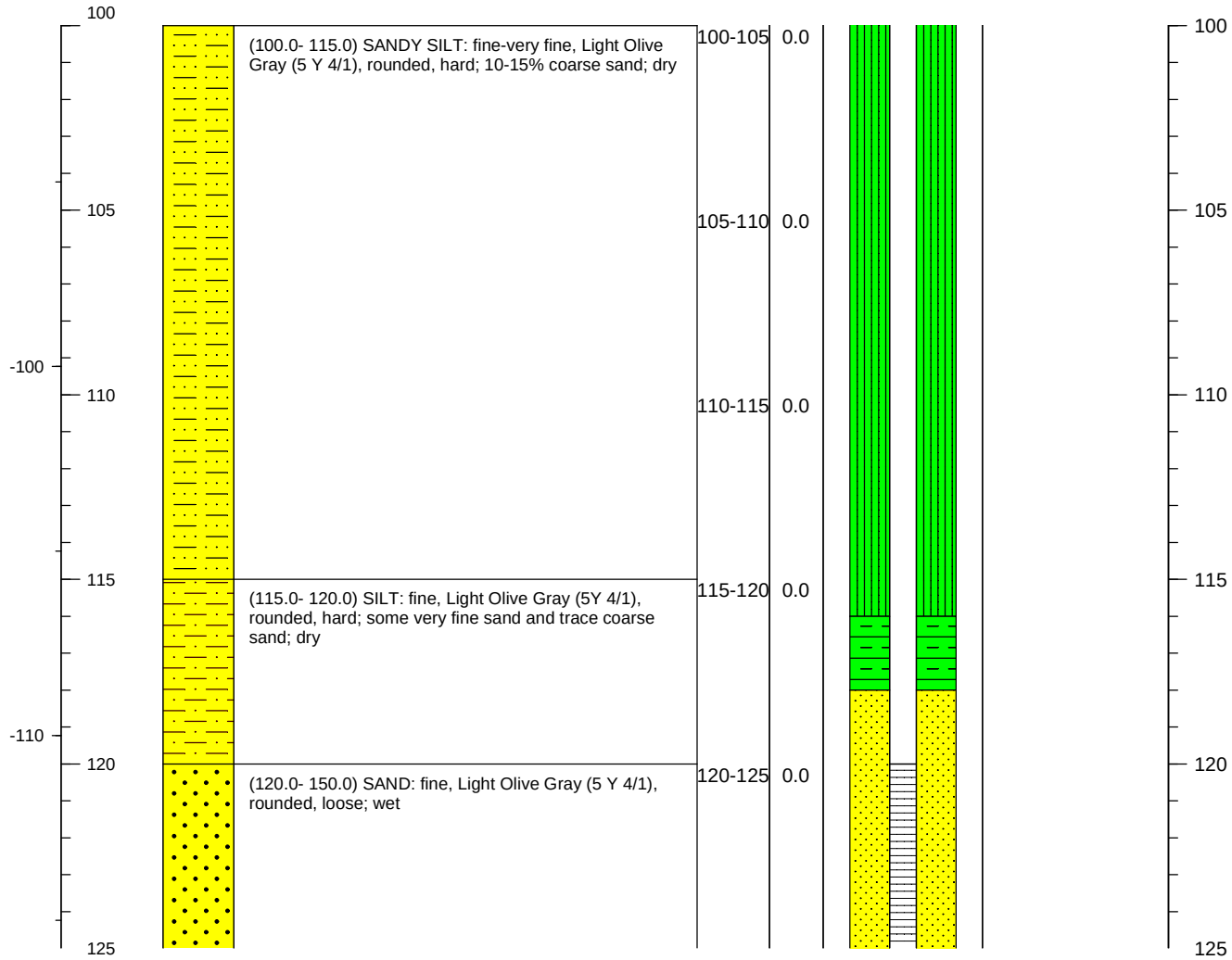
Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**MW-44D**
Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Rousie SR1 w/Detric Head**	Northing **424883.450** Easting **871751.700** Well Screen Interval **120-130 ft**	Ground Surface Elevation **9.23** Top of Well Casing Elevation **12.07**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **130 ft**
Logged By **R. McLain** Approved By **R. Cate**	Date Drilling Started **3/29/10**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **150 ft** Boring Dia. **6 in.**
Driller Name **B. Niles** Project Number **WBS30012B1**	Date Drilling Completed **3/31/10**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**



Water level in completed well

Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**MW-44D**
Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Rousie SR1 w/Detric Head**	Northing **424883.450** Easting **871751.700** Well Screen Interval **120-130 ft**	Ground Surface Elevation **9.23** Top of Well Casing Elevation **12.07**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **130 ft**
Logged By **R. McLain** Approved By **R. Cate**	Date Drilling Started **3/29/10**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **150 ft** Boring Dia. **6 in.**
Driller Name **B. Niles** Project Number **WBS30012B1**	Date Drilling Completed **3/31/10**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

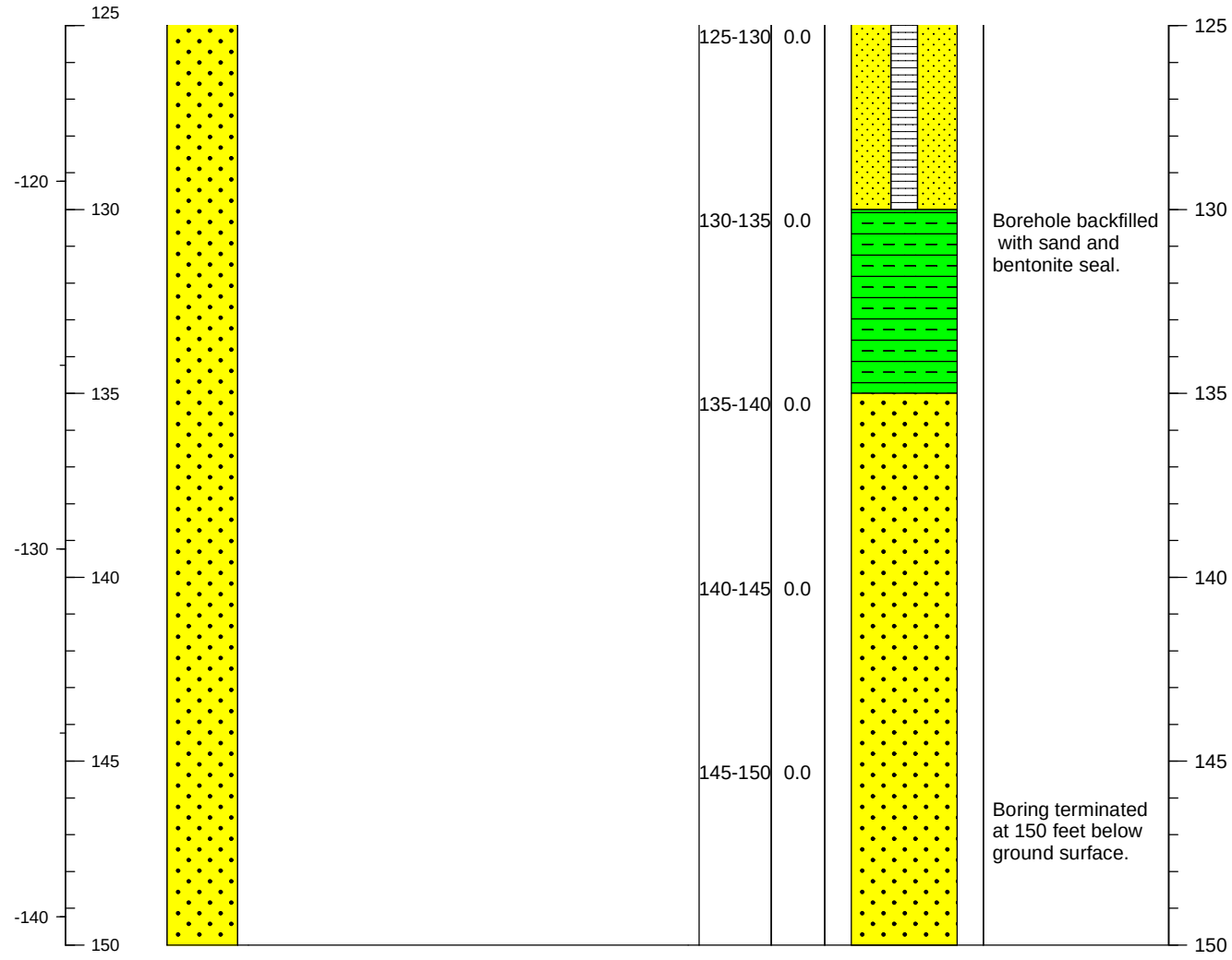
LITHOLOGY **SAMPLING DATA**



Water level in completed well

Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**MW-44D**
Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Rousie SR1 w/Detric Head**	Northing **424883.450** Easting **871751.700** Well Screen Interval **120-130 ft**	Ground Surface Elevation **9.23** Top of Well Casing Elevation **12.07**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **130 ft**
Logged By **R. McLain** Approved By **R. Cate**	Date Drilling Started **3/29/10**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **150 ft** Boring Dia. **6 in.**
Driller Name **B. Niles** Project Number **WBS30012B1**	Date Drilling Completed **3/31/10**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

LITHOLOGY **SAMPLING DATA**

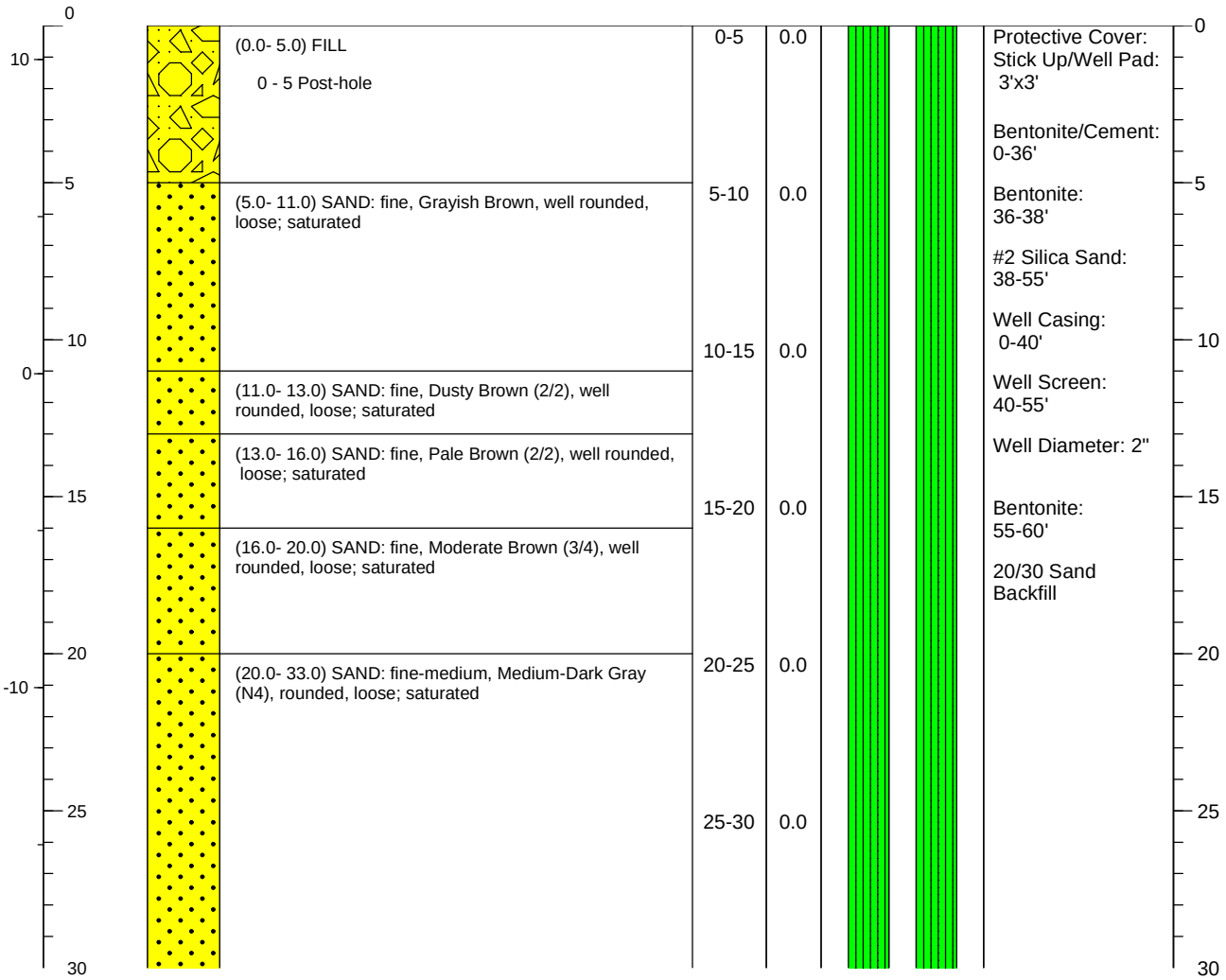


Water level in completed well

Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**MW-45I**

Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Rousie SR1 w/Detric Head**	Northing **423891.953** Easting **870162.216** Well Screen Interval **40-55 ft**	Ground Surface Elevation **11.08** Top of Well Casing Elevation **13.84**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **55 ft**
Logged By **R. McLain** Approved By **R. Cate**	Date Drilling Started **4/7/10**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **60 ft** Boring Dia. **6 in.**
Driller Name **B. Niles** Project Number **WBS30012B1**	Date Drilling Completed **4/7/10**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

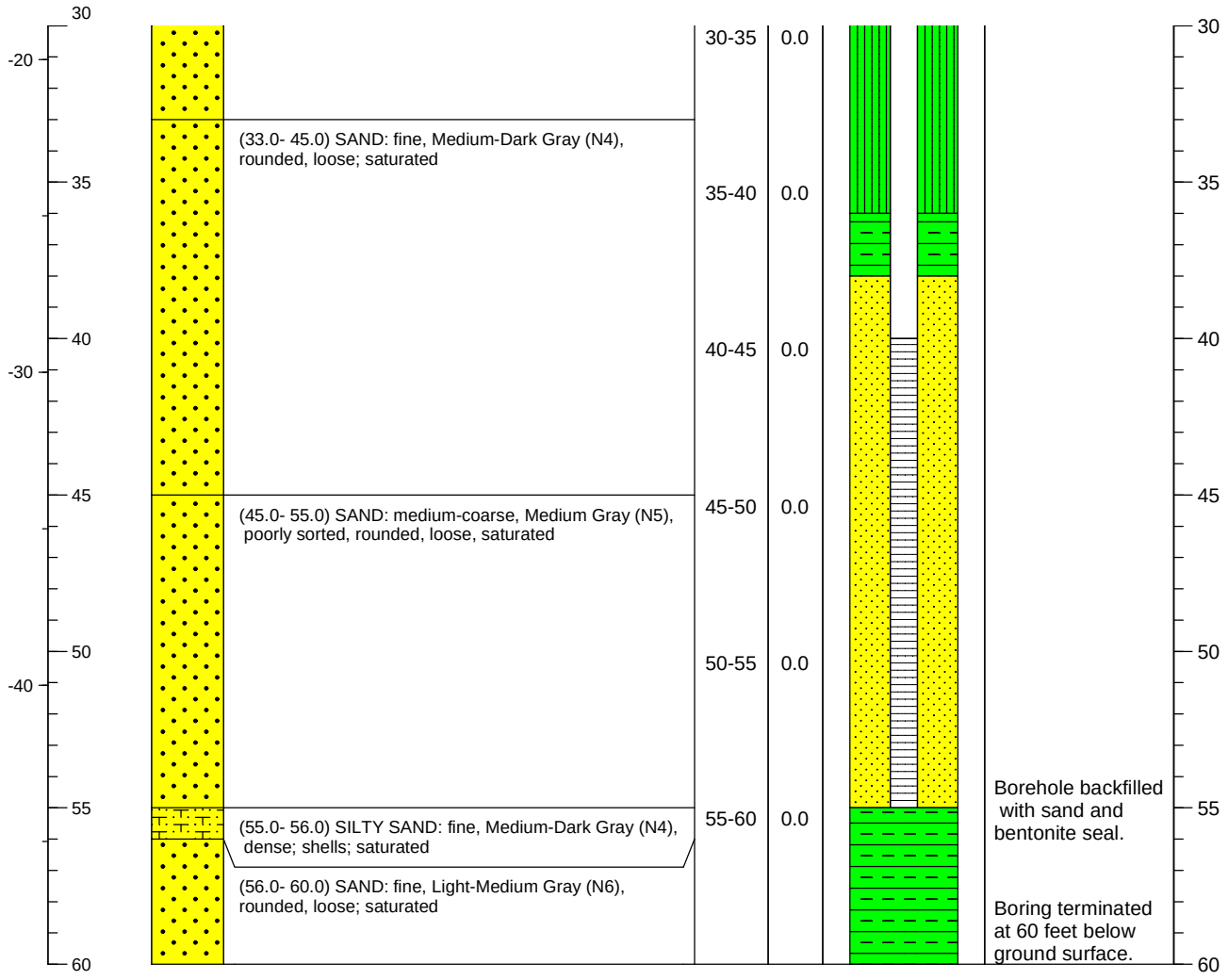
LITHOLOGY **SAMPLING DATA**



Water level in completed well

Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**MW-45I**
Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Rousie SR1 w/Detric Head**	Northing **423891.953** Easting **870162.216** Well Screen Interval **40-55 ft**	Ground Surface Elevation **11.08** Top of Well Casing Elevation **13.84**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **55 ft**
Logged By **R. McLain** Approved By **R. Cate**	Date Drilling Started **4/7/10**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **60 ft** Boring Dia. **6 in.**
Driller Name **B. Niles** Project Number **WBS30012B1**	Date Drilling Completed **4/7/10**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

LITHOLOGY **SAMPLING DATA**



Water level in completed well

Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**MW-46I**

Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Rousie SR1 w/Detric Head**	Northing **423608.107** Easting **871022.739** Well Screen Interval **40-55 ft**	Ground Surface Elevation **8.34** Top of Well Casing Elevation **10.94**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **55 ft**
Logged By **R. McLain** Approved By **R. Cate**	Date Drilling Started **4/6/10**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **60 ft** Boring Dia. **6 in.**
Driller Name **B. Niles** Project Number **WBS30012B1**	Date Drilling Completed **4/6/10**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

LITHOLOGY **SAMPLING DATA**

Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
	0		(0.0- 5.0) FILL 0 - 5 Post-hole	0-5	0.0		Protective Cover: Stick Up/Well Pad: 3'x3'	0
	5		(5.0- 11.0) SAND: fine, Grayish Brown, well rounded, loose; saturated	5-10	7.4		Bentonite/Cement: 0-36'	5
0	10		(11.0- 13.0) SAND: fine, Dusty Brown (2/2), well rounded, loose; saturated	10-15	3.0		Bentonite: 36-38'	10
	15		(13.0- 16.0) SAND: fine, Pale Brown (2/2), well rounded, loose; saturated	15-20	70.0		#2 Silica Sand: 38-55'	15
-10	20		(16.0- 20.0) SAND: fine, Moderate Brown (3/4), well rounded, loose; saturated	20-25	14.4		Well Casing: 0-40'	20
	25		(20.0- 33.0) SAND: fine-medium, Medium-Dark Gray (N4), rounded, loose; saturated	25-30	2.5		Well Screen: 40-55'	25
-20	30						Well Diameter: 2"	30
							Bentonite: 55-60'	
							20/30 Sand Backfill	

Water level in completed well

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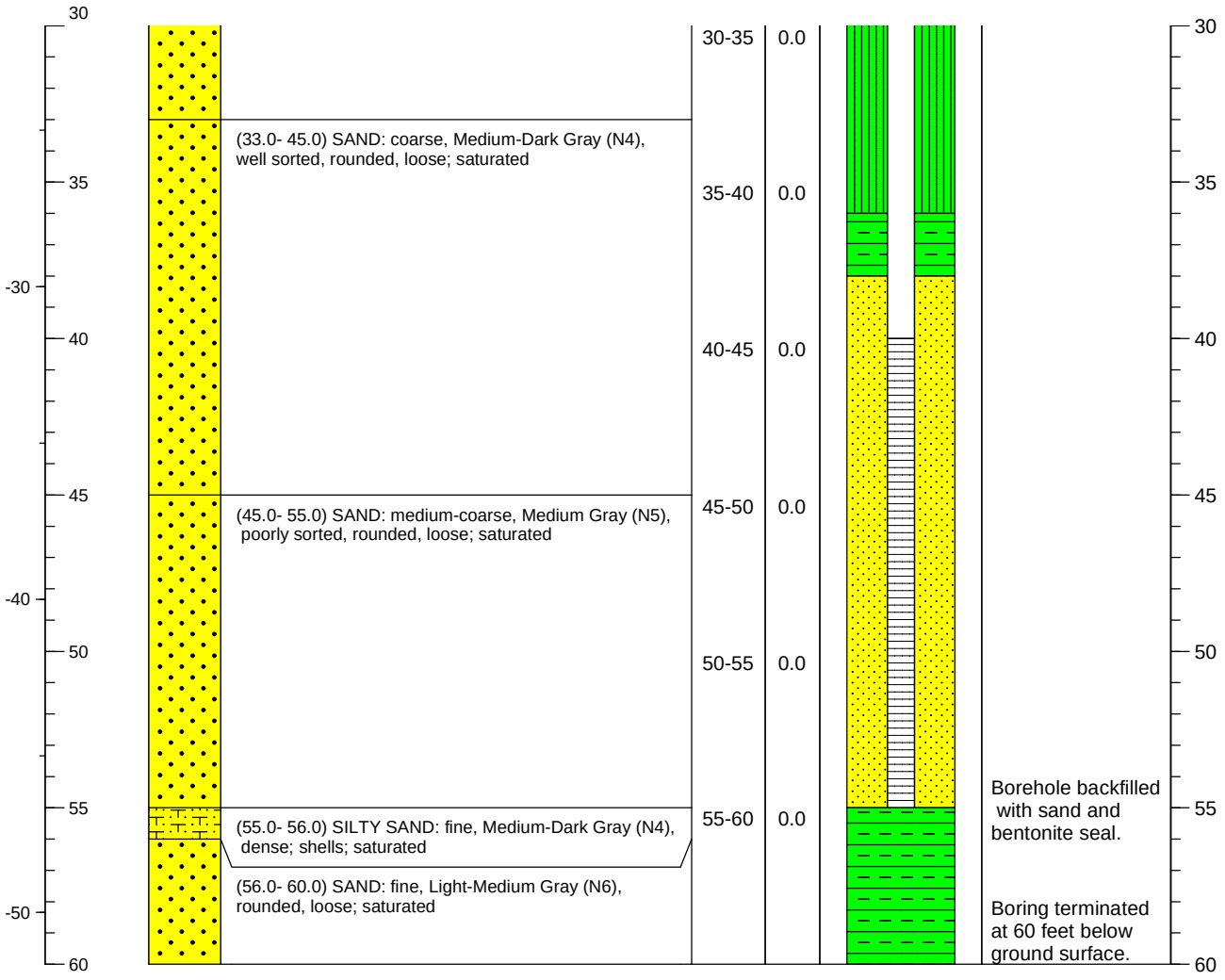
Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**MW-46I**

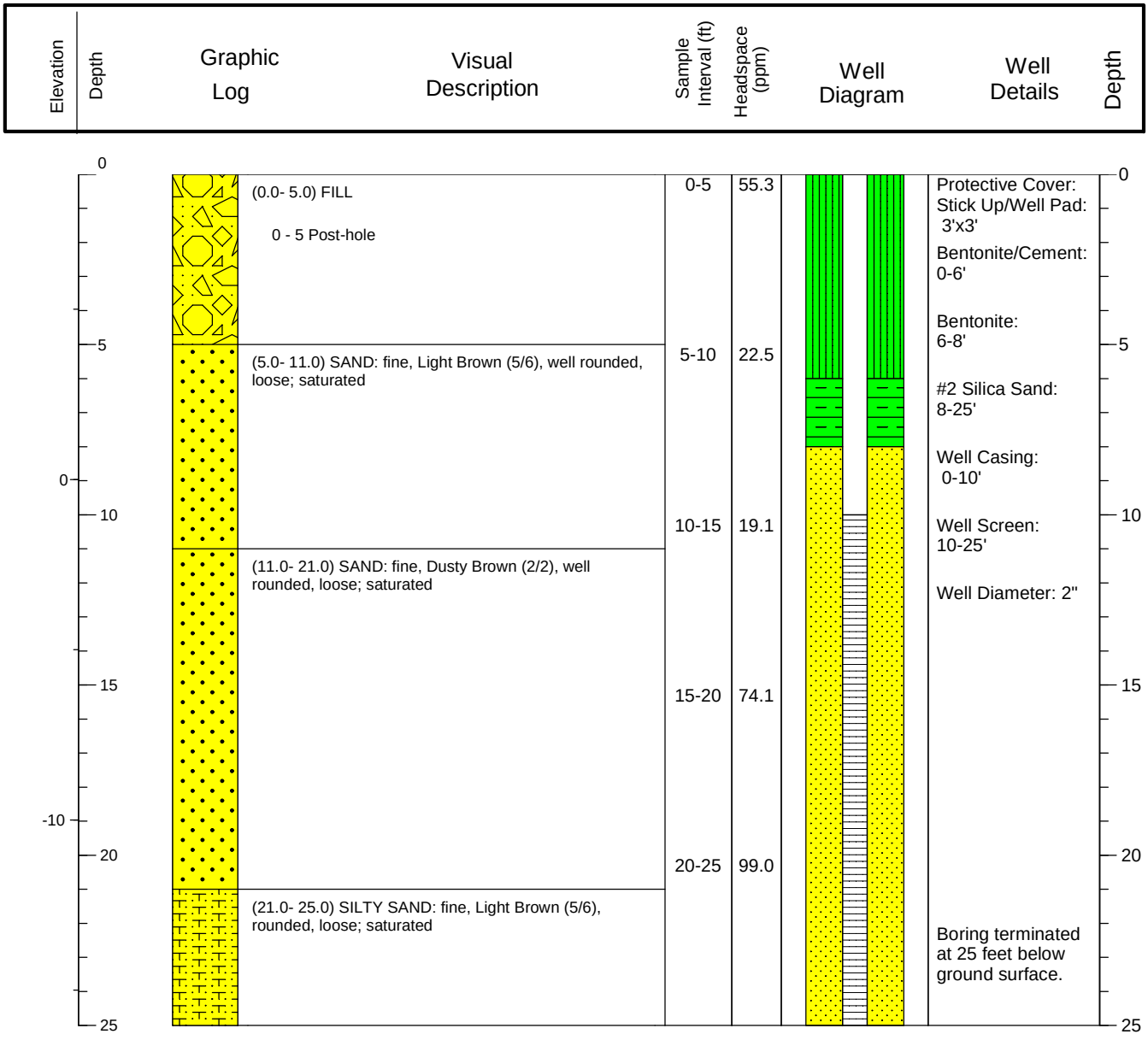
Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Rousie SR1 w/Detric Head**	Northing **423608.107** Easting **871022.739** Well Screen Interval **40-55 ft**	Ground Surface Elevation **8.34** Top of Well Casing Elevation **10.94**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **55 ft**
Logged By **R. McLain** Approved By **R. Cate**	Date Drilling Started **4/6/10**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **60 ft** Boring Dia. **6 in.**
Driller Name **B. Niles** Project Number **WBS30012B1**	Date Drilling Completed **4/6/10**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

LITHOLOGY **SAMPLING DATA**



Water level in completed well

Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**MW-48S**
Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Rousie SR1 w/Detric Head**	Northing **424383.285** Easting **870157.589** Well Screen Interval **10-25 ft**	Ground Surface Elevation **8.96** Top of Well Casing Elevation **11.15**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **25 ft**
Logged By **R. McLain** Approved By **R. Cate**	Date Drilling Started **4/8/10**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **25 ft** Boring Dia. **6 in.**
Driller Name **B. Niles** Project Number **WBS30012B1**	Date Drilling Completed **4/9/10**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**



Water level in completed well

Project Name	Monitoring Well Construction Log	Well Number
Ashland Brunswick Georgia		**MW-48I**

Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Rousie SR1 w/Detric Head**	Northing **424390.920** Easting **870164.910** Well Screen Interval **40-55 ft**	Ground Surface Elevation **9.14** Top of Well Casing Elevation **11.12**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **55 ft**
Logged By **R. McLain** Approved By **R. Cate**	Date Drilling Started **4/12/10**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **55 ft** Boring Dia. **6 in.**
Driller Name **B. Niles** Project Number **WBS30012B1**	Date Drilling Completed **4/12/10**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

LITHOLOGY **SAMPLING DATA**

Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
0	0		(0.0- 5.0) FILL 0 - 5 Post-hole	0-5	55.3		Protective Cover: Stick Up/Well Pad: 3'x3' Bentonite/Cement: 0-36' Bentonite: 36-38' #2 Silica Sand: 38-55' Well Casing: 0-40' Well Screen: 40-55' Well Diameter: 2"	0
	5		(5.0- 11.0) SAND: fine, Light Brown (5/6), well rounded, loose; saturated	5-10	22.5			5
0	10		(11.0- 21.0) SAND: fine, Dusty Brown (2/2), well rounded, loose; saturated	10-15	19.1			10
	15			15-20	74.1			15
-10	20		(21.0- 26.0) SILTY SAND: fine, Light Brown (5/6), rounded, loose; saturated	20-25	99.0			20
	25		(26.0- 40.0) SILTY SAND: fine, Dark Yellowish-Brown (10YR 4/2), rounded, loose; saturated	25-30	30.0			25

▼ Water level in completed well

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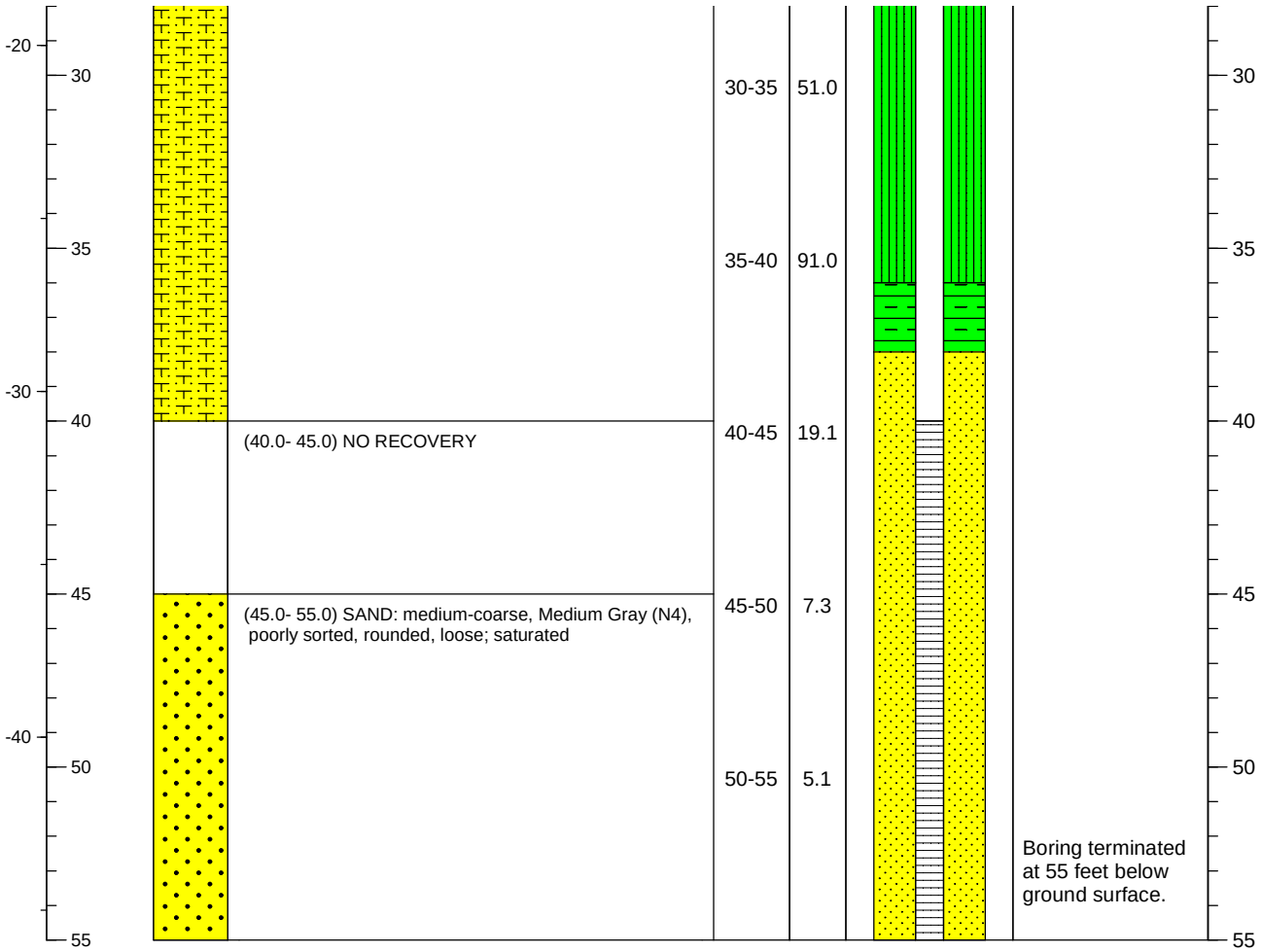
Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**MW-48I**
Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Rousie SR1 w/Detric Head**	Northing **424390.920** Easting **870164.910** Well Screen Interval **40-55 ft**	Ground Surface Elevation **9.14** Top of Well Casing Elevation **11.12**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **55 ft**
Logged By **R. McLain** Approved By **R. Cate**	Date Drilling Started **4/12/10**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **55 ft** Boring Dia. **6 in.**
Driller Name **B. Niles** Project Number **WBS30012B1**	Date Drilling Completed **4/12/10**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

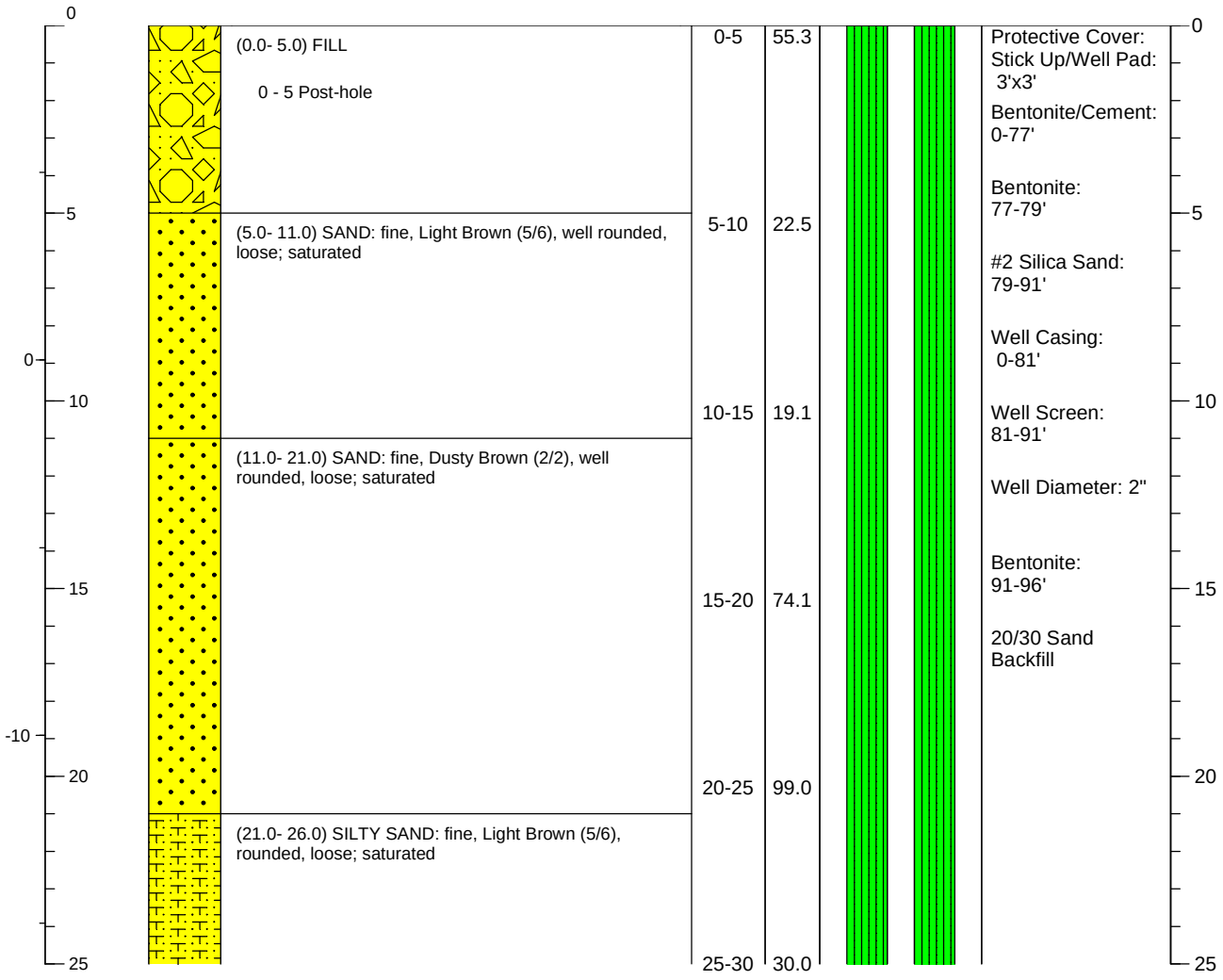
LITHOLOGY **SAMPLING DATA**



Water level in completed well

Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**MW-48D**
Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Rousie SR1 w/Detric Head**	Northing **424392.800** Easting **870154.611** Well Screen Interval **81-91 ft**	Ground Surface Elevation **8.91** Top of Well Casing Elevation **11.12**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **91 ft**
Logged By **R. McLain** Approved By **R. Cate**	Date Drilling Started **4/8/10**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **100 ft** Boring Dia. **6 in.**
Driller Name **B. Niles** Project Number **WBS30012B1**	Date Drilling Completed **4/9/10**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

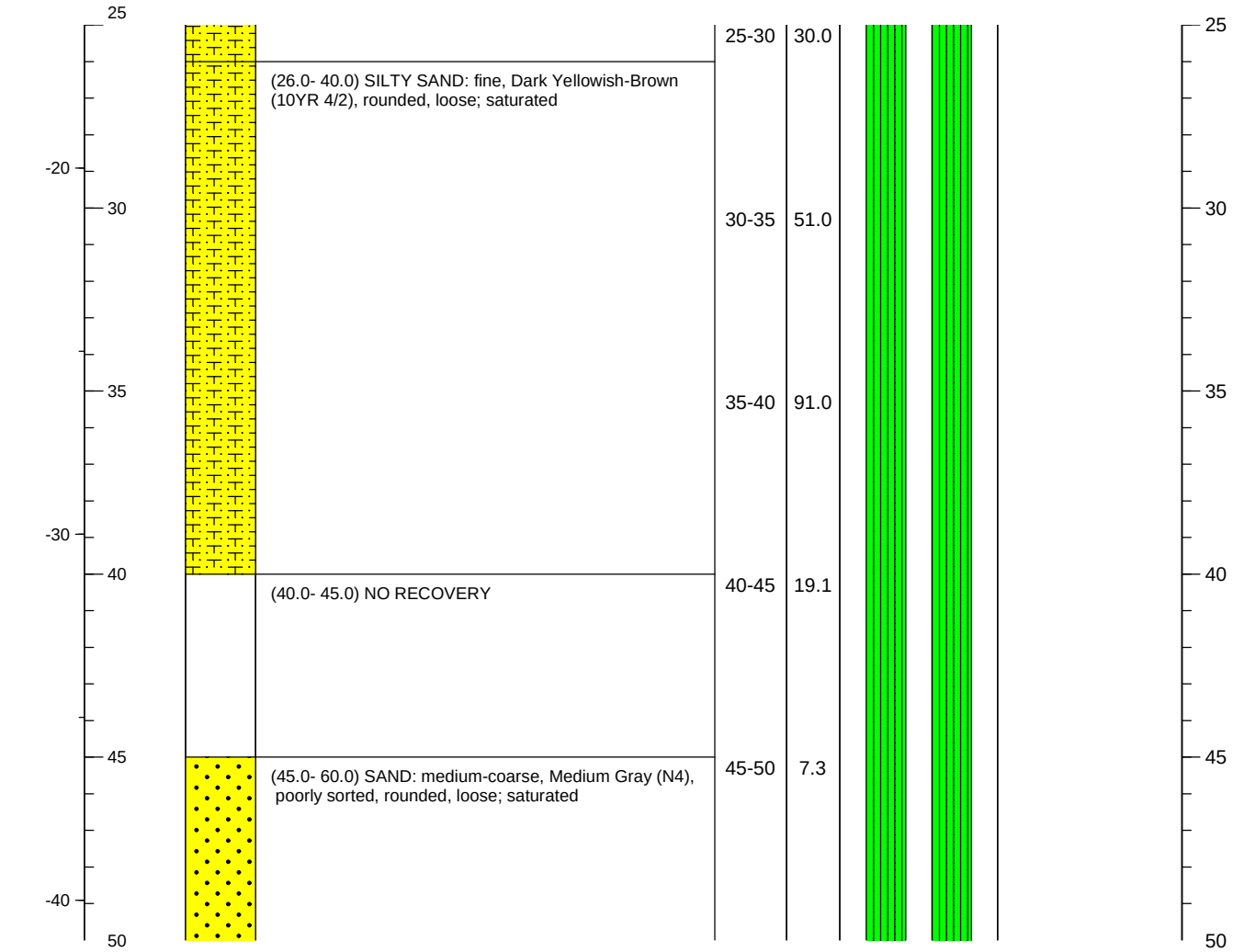
LITHOLOGY **SAMPLING DATA**



Water level in completed well

Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**MW-48D**
Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Rousie SR1 w/Detric Head**	Northing **424392.800** Easting **870154.611** Well Screen Interval **81-91 ft**	Ground Surface Elevation **8.91** Top of Well Casing Elevation **11.12**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **91 ft**
Logged By **R. McLain** Approved By **R. Cate**	Date Drilling Started **4/8/10**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **100 ft** Boring Dia. **6 in.**
Driller Name **B. Niles** Project Number **WBS30012B1**	Date Drilling Completed **4/9/10**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

LITHOLOGY **SAMPLING DATA**

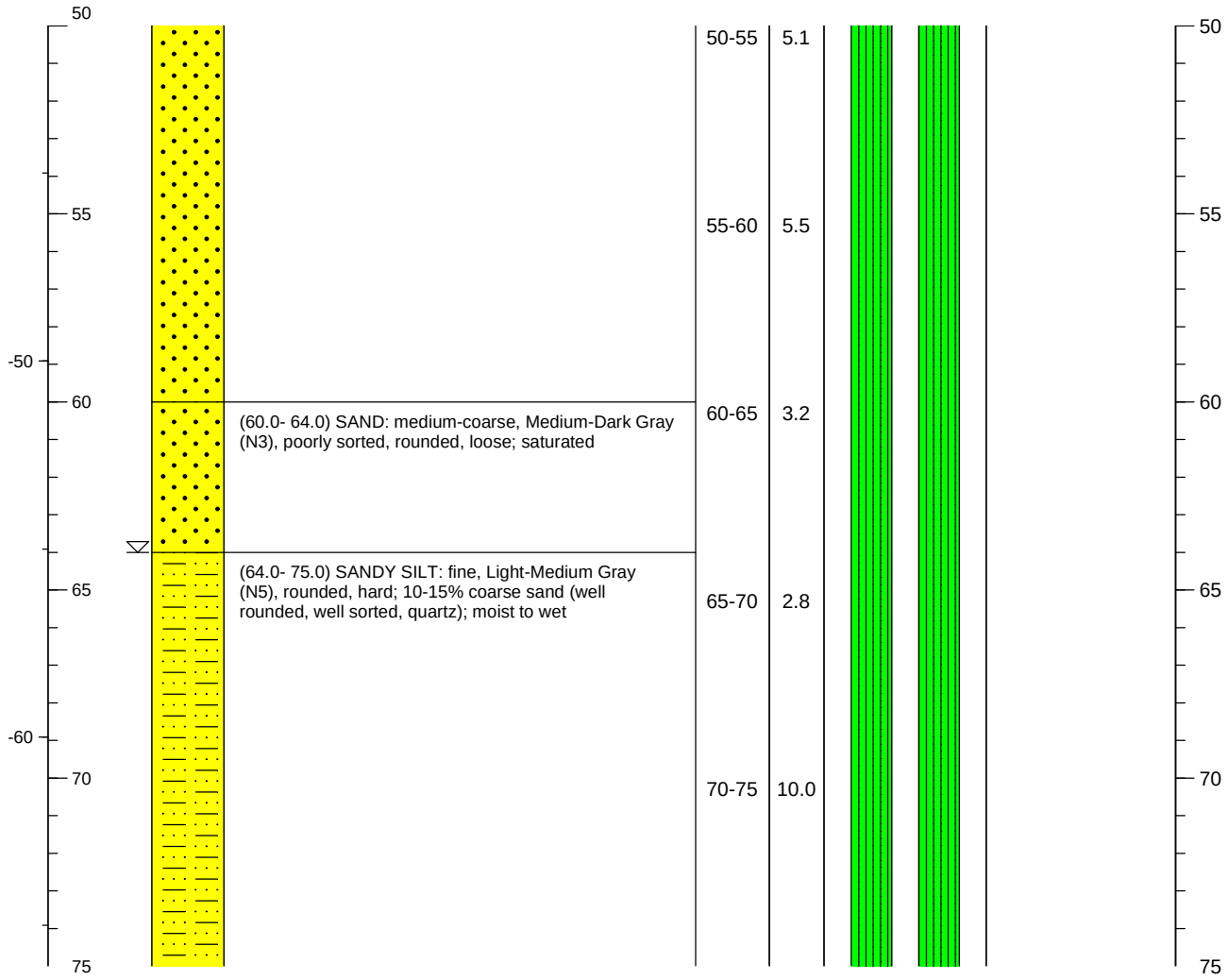


Water level in completed well

Project Name	Monitoring Well Construction Log	Well Number
Ashland Brunswick Georgia		**MW-48D**

Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Rousie SR1 w/Detric Head**	Northing **424392.800** Easting **870154.611** Well Screen Interval **81-91 ft**	Ground Surface Elevation **8.91** Top of Well Casing Elevation **11.12**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **91 ft**
Logged By **R. McLain** Approved By **R. Cate**	Date Drilling Started **4/8/10**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **100 ft** Boring Dia. **6 in.**
Driller Name **B. Niles** Project Number **WBS30012B1**	Date Drilling Completed **4/9/10**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

LITHOLOGY **SAMPLING DATA**

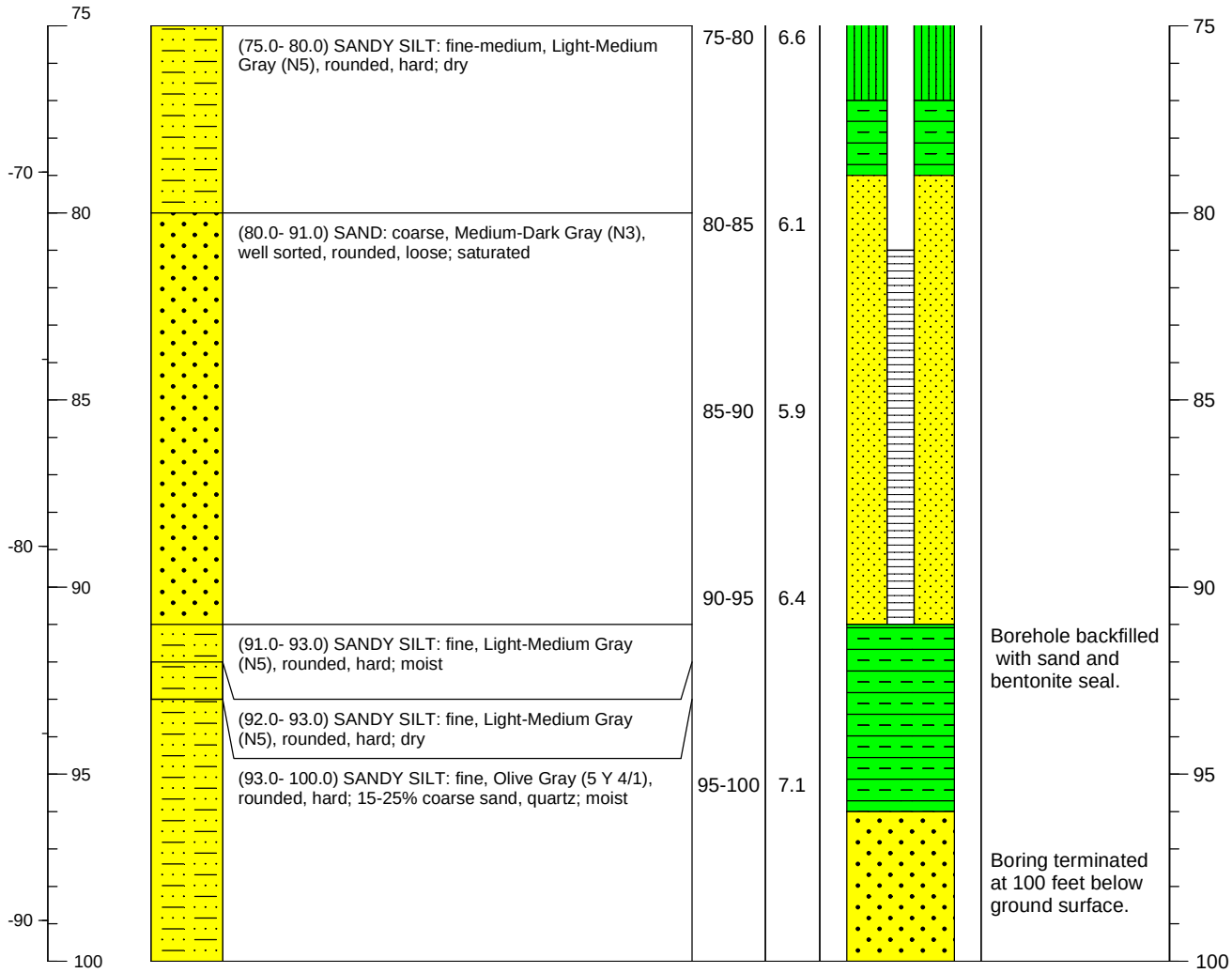


Water level in completed well

Project Name	Monitoring Well Construction Log	Well Number
Ashland Brunswick Georgia		**MW-48D**

Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Rousie SR1 w/Detric Head**	Northing **424392.800** Easting **870154.611** Well Screen Interval **81-91 ft**	Ground Surface Elevation **8.91** Top of Well Casing Elevation **11.12**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **91 ft**
Logged By **R. McLain** Approved By **R. Cate**	Date Drilling Started **4/8/10**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **100 ft** Boring Dia. **6 in.**
Driller Name **B. Niles** Project Number **WBS30012B1**	Date Drilling Completed **4/9/10**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

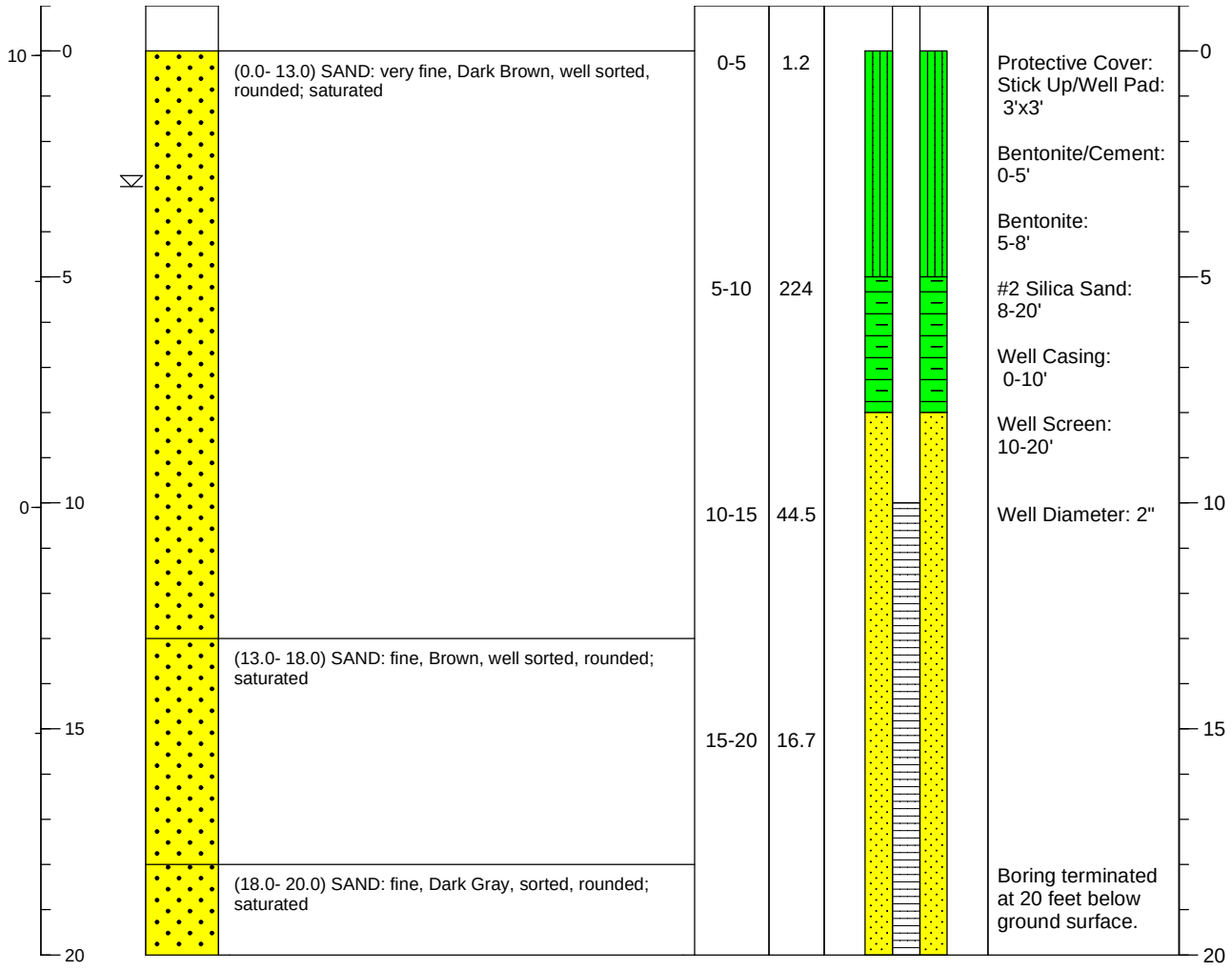
LITHOLOGY **SAMPLING DATA**



Water level in completed well

Project Name	Monitoring Well Construction Log	Well Number
Former Hercules Brunswick Facility Georgia		MW-49S

Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Boart Longyear** Drilling Equipment **Boart Big Rig**	Northing **424230.9** Easting **870730.9** Well Screen Interval **10 - 20 ft**	Ground Surface Elevation **10.10** Top of Well Casing Elevation **10.00**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **20 ft**
Logged By **R. McLain** Approved By **D. Salisbury**	Date Drilling Started **3/29/12**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **20 ft.** Boring Dia. **4 in. / 6 in.**
Driller Name **J. Sousa** Project Number **WBS30012B1**	Date Drilling Completed **3/29/12**	Sampling Method **4" Continuous Cores**	Headspace Monitoring Device **PID**



Water level in completed well

Project Name	Monitoring Well Construction Log	Well Number
Former Hercules Brunswick Facility Georgia		MW-49I

Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Boart Longyear** Drilling Equipment **Mini Sonic**	Northing **424229.7** Easting **870726.5** Well Screen Interval **57 - 67 ft**	Ground Surface Elevation **10.10** Top of Well Casing Elevation **9.85**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **67 ft**
Logged By **R. McLain** Approved By **D. Salisbury**	Date Drilling Started **3/29/12**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **67 ft.** Boring Dia. **4 in. / 6 in.**
Driller Name **J. Sousa** Project Number **WBS30012B1**	Date Drilling Completed **3/29/12**	Sampling Method **4" Continuous Cores**	Headspace Monitoring Device **PID**

LITHOLOGY **SAMPLING DATA**

Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
10	0		(0.0- 13.0) SAND: very fine, Dark Brown, well sorted, rounded; saturated	0-5	1.2		Protective Cover: Stick Up/Well Pad: 3'x3'	0
	5			5-10	224		Bentonite/Cement: 0-51'	5
0	10			10-15	44.5			10
	15		(13.0- 18.0) SAND: fine, Brown, well sorted, rounded; saturated	15-20	16.7		Bentonite: 51-55'	15
-10	20		(18.0- 29.0) SAND: fine, Dark Gray, sorted, rounded; saturated	20-25	0.0		#2 Silica Sand: 55-67'	20
	25			25-30	0.0		Well Casing: 0-57'	25
-20	30		(29.0- 31.0) CLAY: Dark Gray; saturated	30-35	0.0		Well Screen: 57-67'	30
	35		(31.0- 38.0) SAND: fine-medium, Gray, sorted, rounded; saturated	35-40	0.0		Well Diameter: 2"	35
-30	40		(38.0- 57.0) SAND: medium, Light Gray, well sorted, rounded; saturated	40-45	4.2			40
	45			45-50	13.1			45
-40	50			50-55	0.0			50
	55			55-60	0.0			55
-50	60		(57.0- 61.0) SAND: medium-coarse, Dark Gray, sorted, rounded; saturated	60-65	0.3			60
	65		(61.0- 67.0) SAND: coarse, Dark Gray, well sorted, rounded; saturated	65-67	0.0		Boring terminated at 67 feet below ground surface.	65

▼ Water level in completed well

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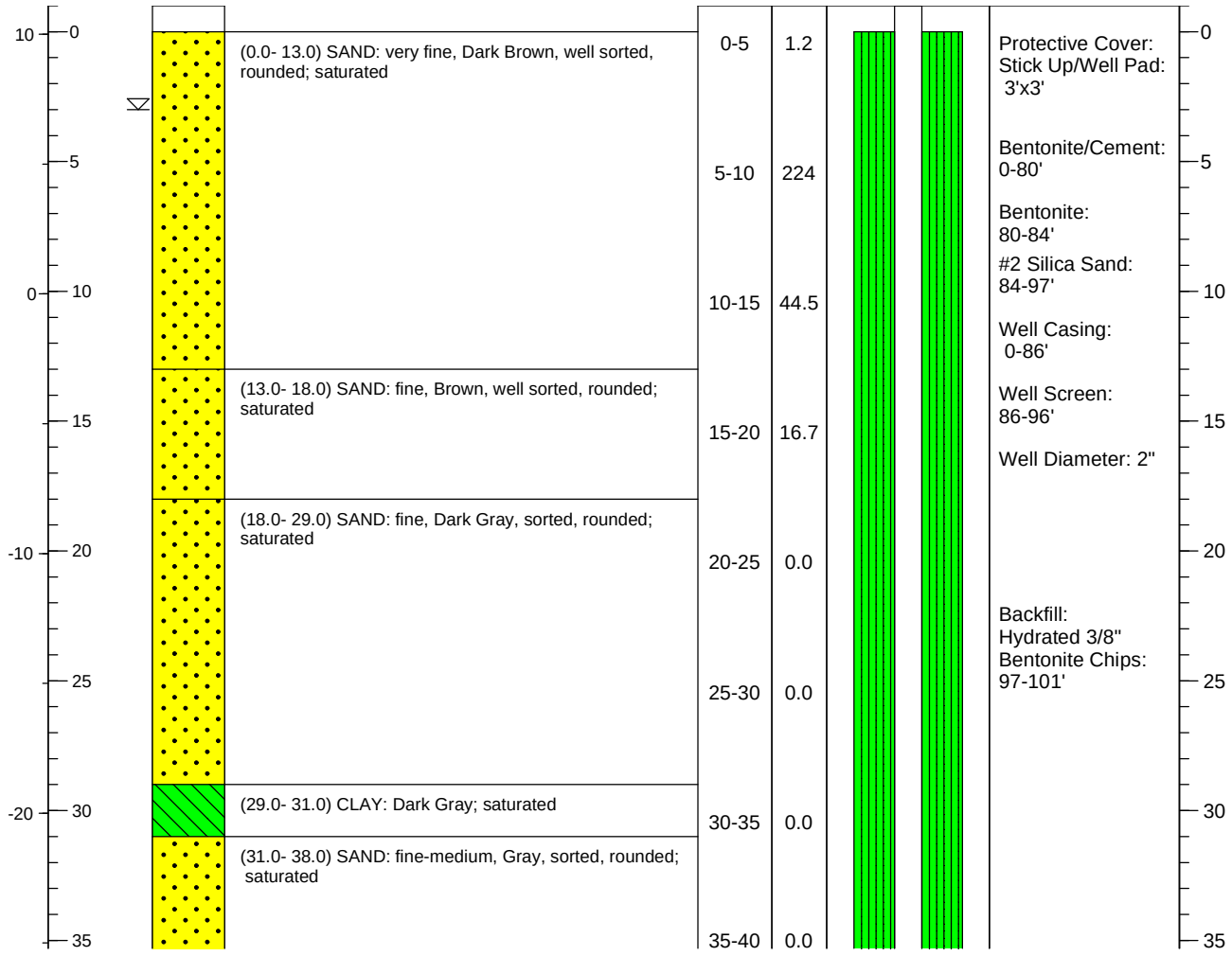
Project Name	Monitoring Well Construction Log	Well Number
Former Hercules Brunswick Facility Georgia		MW-49D

Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Boart Longyear** Drilling Equipment **Boart Big Rig**	Northing **424232.1** Easting **870735.1** Well Screen Interval **86 - 96 ft**	Ground Surface Elevation **10.10** Top of Well Casing Elevation **9.79**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **96 ft**
Logged By **R. McLain** Approved By **D. Salisbury**	Date Drilling Started **3/29/12**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **103 ft.** Boring Dia. **4 in. / 6 in.**
Driller Name **J. Sousa** Project Number **WBS30012B1**	Date Drilling Completed **3/29/12**	Sampling Method **4" Continuous Cores**	Headspace Monitoring Device **PID**

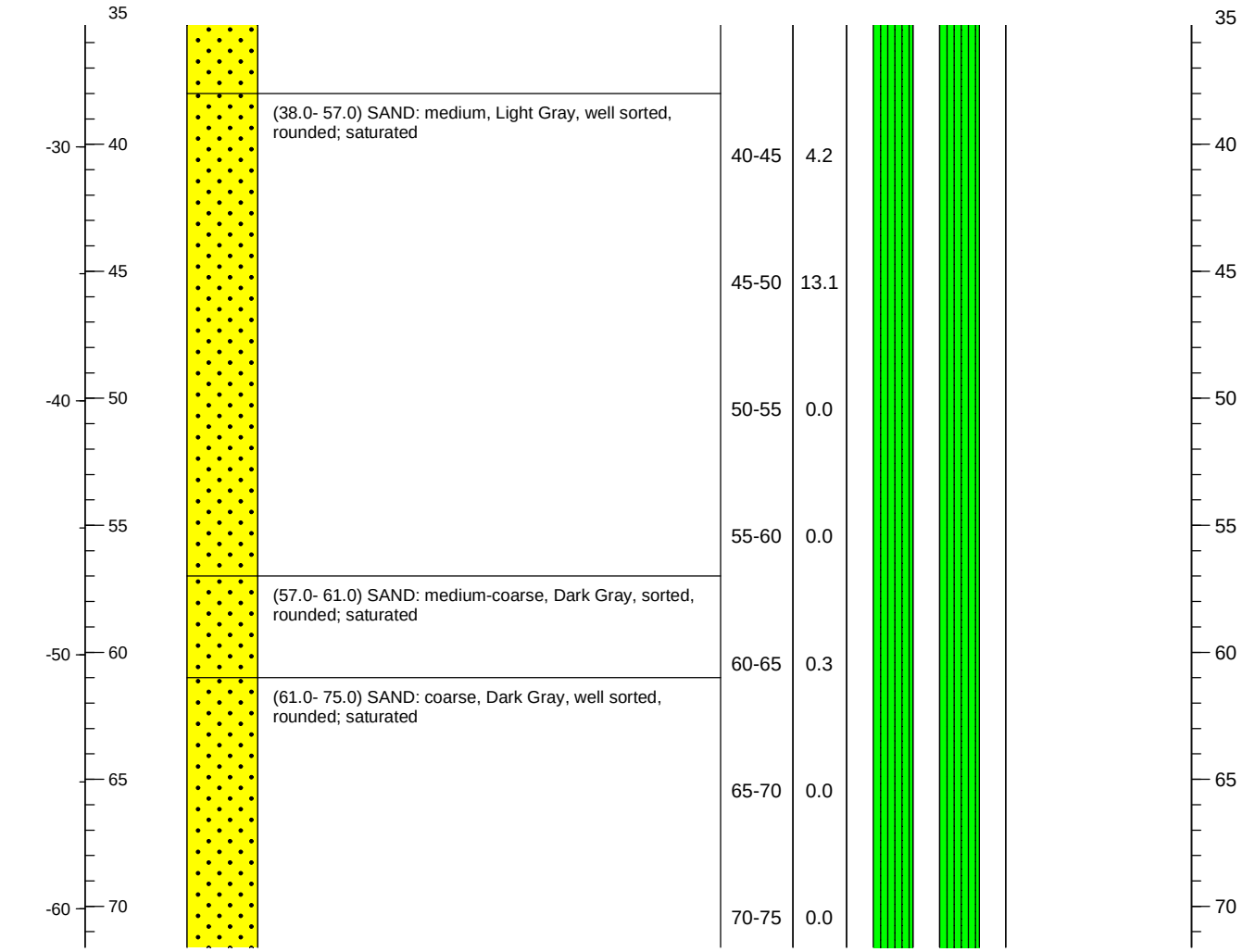


Water level in completed well

Project Name	Monitoring Well Construction Log	Well Number
Former Hercules Brunswick Facility Georgia		MW-49D

Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Boart Longyear** Drilling Equipment **Boart Big Rig**	Northing **424232.1** Easting **870735.1** Well Screen Interval **86 - 96 ft**	Ground Surface Elevation **10.10** Top of Well Casing Elevation **9.79**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **96 ft**
Logged By **R. McLain** Approved By **D. Salisbury**	Date Drilling Started **3/29/12**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **103 ft.** Boring Dia. **4 in. / 6 in.**
Driller Name **J. Sousa** Project Number **WBS30012B1**	Date Drilling Completed **3/29/12**	Sampling Method **4" Continuous Cores**	Headspace Monitoring Device **PID**

LITHOLOGY **SAMPLING DATA**



Water level in completed well

Project Name	Monitoring Well Construction Log	Well Number
Former Hercules Brunswick Facility Georgia		MW-49D

Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Boart Longyear** Drilling Equipment **Boart Big Rig**	Northing **424232.1** Easting **870735.1** Well Screen Interval **86 - 96 ft**	Ground Surface Elevation **10.10** Top of Well Casing Elevation **9.79**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **96 ft**
Logged By **R. McLain** Approved By **D. Salisbury**	Date Drilling Started **3/29/12**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **103 ft.** Boring Dia. **4 in. / 6 in.**
Driller Name **J. Sousa** Project Number **WBS30012B1**	Date Drilling Completed **3/29/12**	Sampling Method **4" Continuous Cores**	Headspace Monitoring Device **PID**

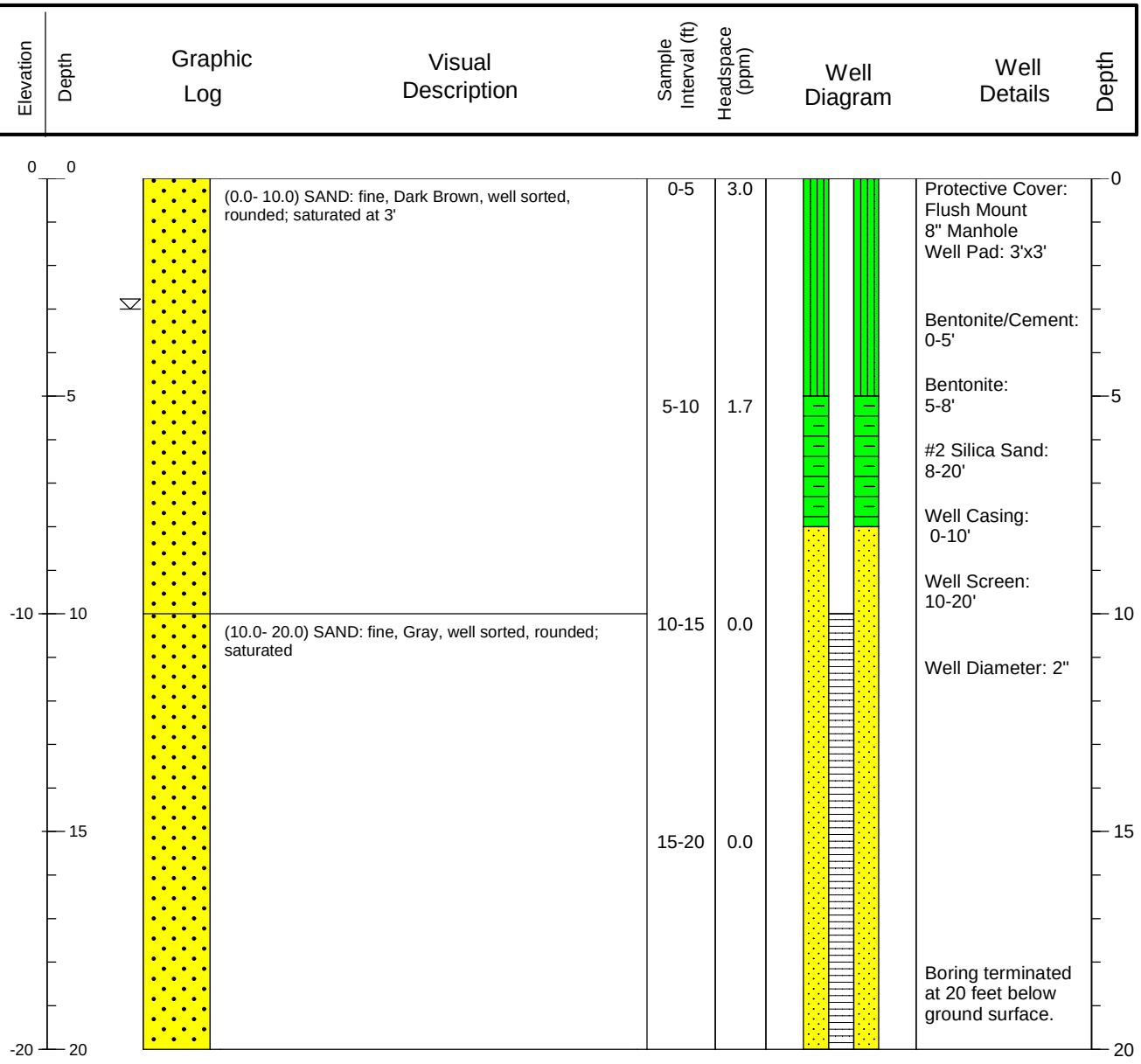
LITHOLOGY **SAMPLING DATA**

Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
	75		(75.0- 81.0) SAND: coarse, Gray, sorted, rounded; <10% pebbles; saturated	75-80	0.0			75
-70	80			80-85	0.0			80
			(81.0- 97.0) SAND: coarse, Gray, well sorted, rounded; saturated					
	85			85-90	0.0			85
-80	90			90-95	0.0			90
	95							95
			(97.0- 99.0) CLAYEY SAND: fine-medium, Gray, poorly sorted, rounded; moist	97-98	0.7			
				98-99	0.5			
				99-100	0.1			
-90	100		(99.0- 103.0) SANDY CLAY: fine, Dark Gray, poorly sorted, rounded; 10-15% gravel; dry	100-101	0.0		Boring terminated at 101 feet below ground surface. Shelby Tube collected from 101-103 ft bgs.	100

Water level in completed well

Project Name	Monitoring Well Construction Log	Well Number
Former Hercules Brunswick Facility Georgia		MW-50S

Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Boart Longyear** Drilling Equipment **Mini Sonic**	Northing **422953.1** Easting **872360.3** Well Screen Interval **10 - 20 ft**	Ground Surface Elevation **7.80** Top of Well Casing Elevation **7.82**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **20 ft**
Logged By **R. McLain** Approved By **D. Salisbury**	Date Drilling Started **3/14/12**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **20 ft** Boring Dia. **4 in. / 6 in.**
Driller Name **J. Sousa** Project Number **WBS30012B1**	Date Drilling Completed **3/15/12**	Sampling Method **4" Continuous Cores**	Headspace Monitoring Device **PID**

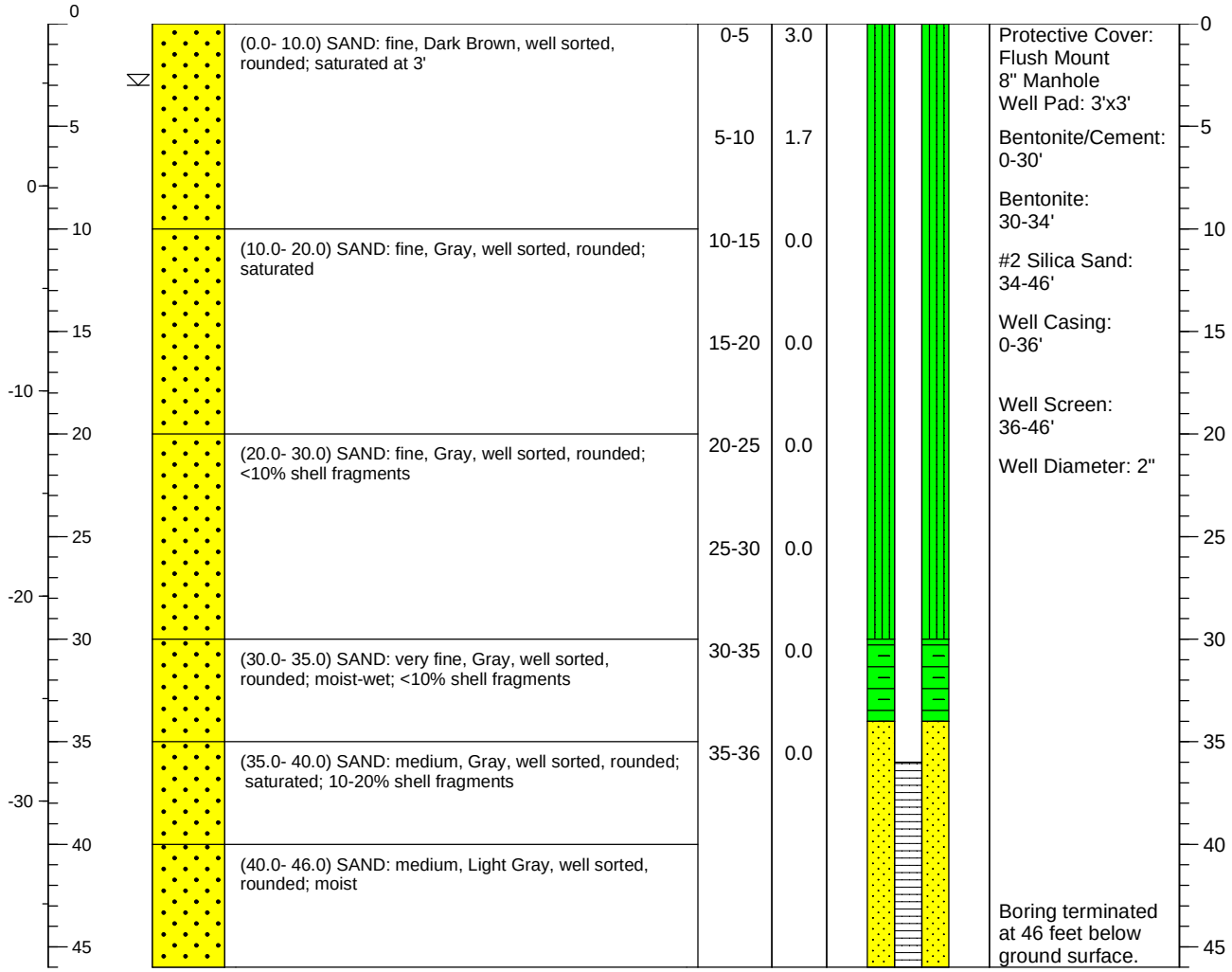


Water level in completed well

Project Name	Monitoring Well Construction Log	Well Number
Former Hercules Brunswick Facility Georgia		MW-50I

Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Boart Longyear** Drilling Equipment **Mini Sonic**	Northing **422952.7** Easting **872366.4** Well Screen Interval **36 - 46 ft**	Ground Surface Elevation **7.90** Top of Well Casing Elevation **7.88**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **46 ft**
Logged By **R. McLain** Approved By **D. Salisbury**	Date Drilling Started **3/14/12**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **46 ft** Boring Dia. **4 in. / 6 in.**
Driller Name **J. Sousa** Project Number **WBS30012B1**	Date Drilling Completed **3/15/12**	Sampling Method **4" Continuous Cores**	Headspace Monitoring Device **PID**

LITHOLOGY **SAMPLING DATA**

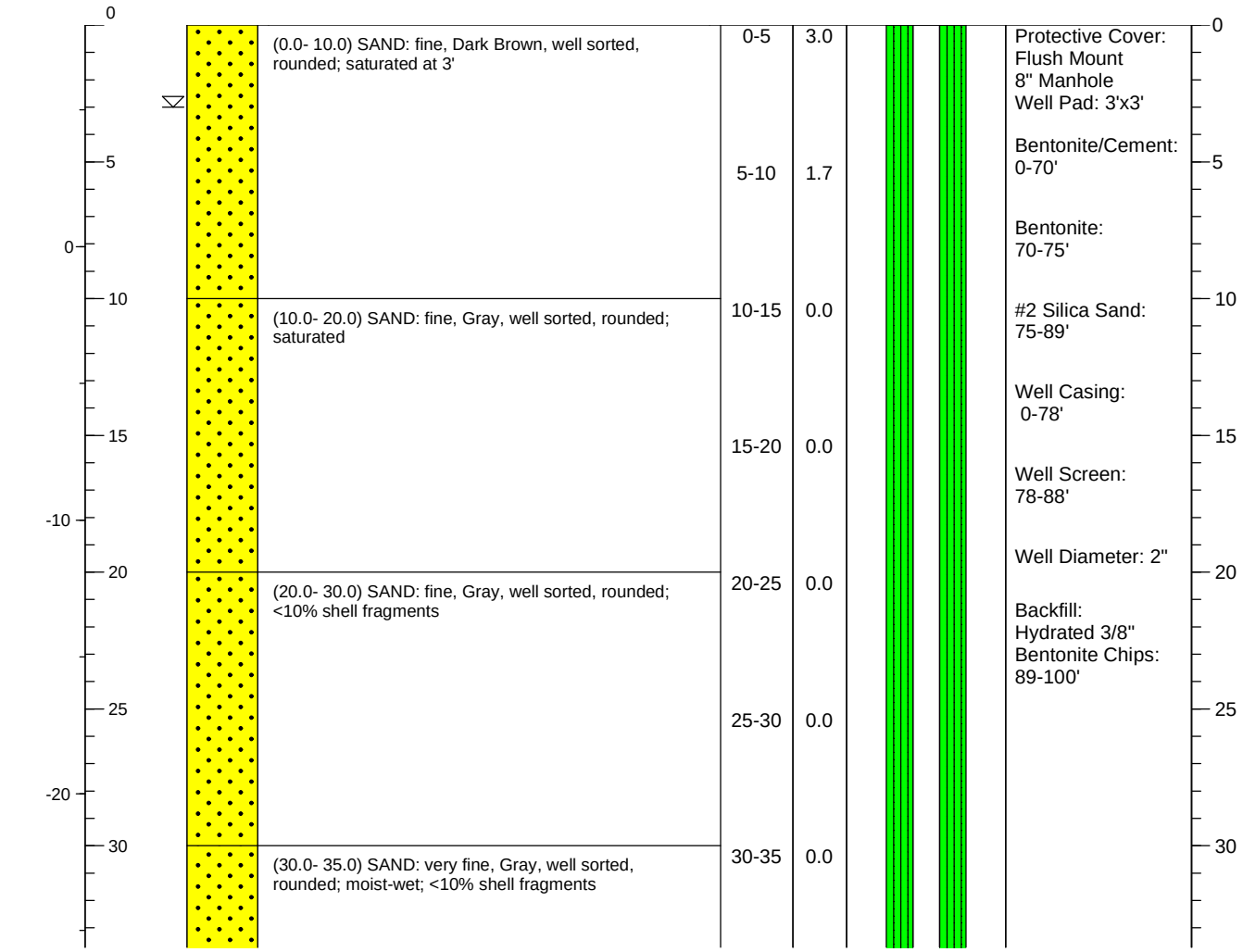


Water level in completed well

Project Name	Monitoring Well Construction Log	Well Number
Former Hercules Brunswick Facility Georgia		MW-50D

Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Boart Longyear** Drilling Equipment **Mini Sonic**	Northing **422952.2** Easting **872372.5** Well Screen Interval **78 - 88 ft**	Ground Surface Elevation **8.10** Top of Well Casing Elevation **8.01**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **88 ft**
Logged By **R. McLain** Approved By **D. Salisbury**	Date Drilling Started **3/14/12**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **100 ft** Boring Dia. **4 in. / 6 in.**
Driller Name **J. Sousa** Project Number **WBS30012B1**	Date Drilling Completed **3/15/12**	Sampling Method **4" Continuous Cores**	Headspace Monitoring Device **PID**

LITHOLOGY **SAMPLING DATA**



Water level in completed well

Project Name	Monitoring Well Construction Log	Well Number
Former Hercules Brunswick Facility Georgia		MW-50D

Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Boart Longyear** Drilling Equipment **Mini Sonic**	Northing **422952.2** Easting **872372.5** Well Screen Interval **78 - 88 ft**	Ground Surface Elevation **8.10** Top of Well Casing Elevation **8.01**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **88 ft**
Logged By **R. McLain** Approved By **D. Salisbury**	Date Drilling Started **3/14/12**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **100 ft** Boring Dia. **4 in. / 6 in.**
Driller Name **J. Sousa** Project Number **WBS30012B1**	Date Drilling Completed **3/15/12**	Sampling Method **4" Continuous Cores**	Headspace Monitoring Device **PID**

LITHOLOGY **SAMPLING DATA**

Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
	35							35
			(35.0- 40.0) SAND: medium, Gray, well sorted, rounded; saturated; 10-20% shell fragments	35-40	0.0			
-30	40							40
			(40.0- 47.0) SAND: medium, Light Gray, well sorted, rounded; moist	40-45	0.0			
	45			45-50	0.0			45
-40			(47.0- 54.0) CLAY: Light Gray, hard; dry					
	50			50-55	0.0			50
	55		(54.0- 56.0) SAND: fine-medium, Dark Gray; saturated	55-60	0.0			55
-50			(56.0- 56.3) CLAY: Dark Gray (56.3- 60.0) SAND: fine-medium, Dark Gray; saturated					
	60		(60.0- 60.3) CLAY: Dark Gray	60-65	0.0			60
			(60.3- 62.0) SAND: fine-medium, Dark Gray; saturated (62.0- 62.3) CLAY: Dark Gray					
	65		(62.3- 66.0) SAND: fine-medium, Dark Gray; saturated	65-70	0.0			65
			(66.0- 66.3) CLAY: Dark Gray					

▼ Water level in completed well

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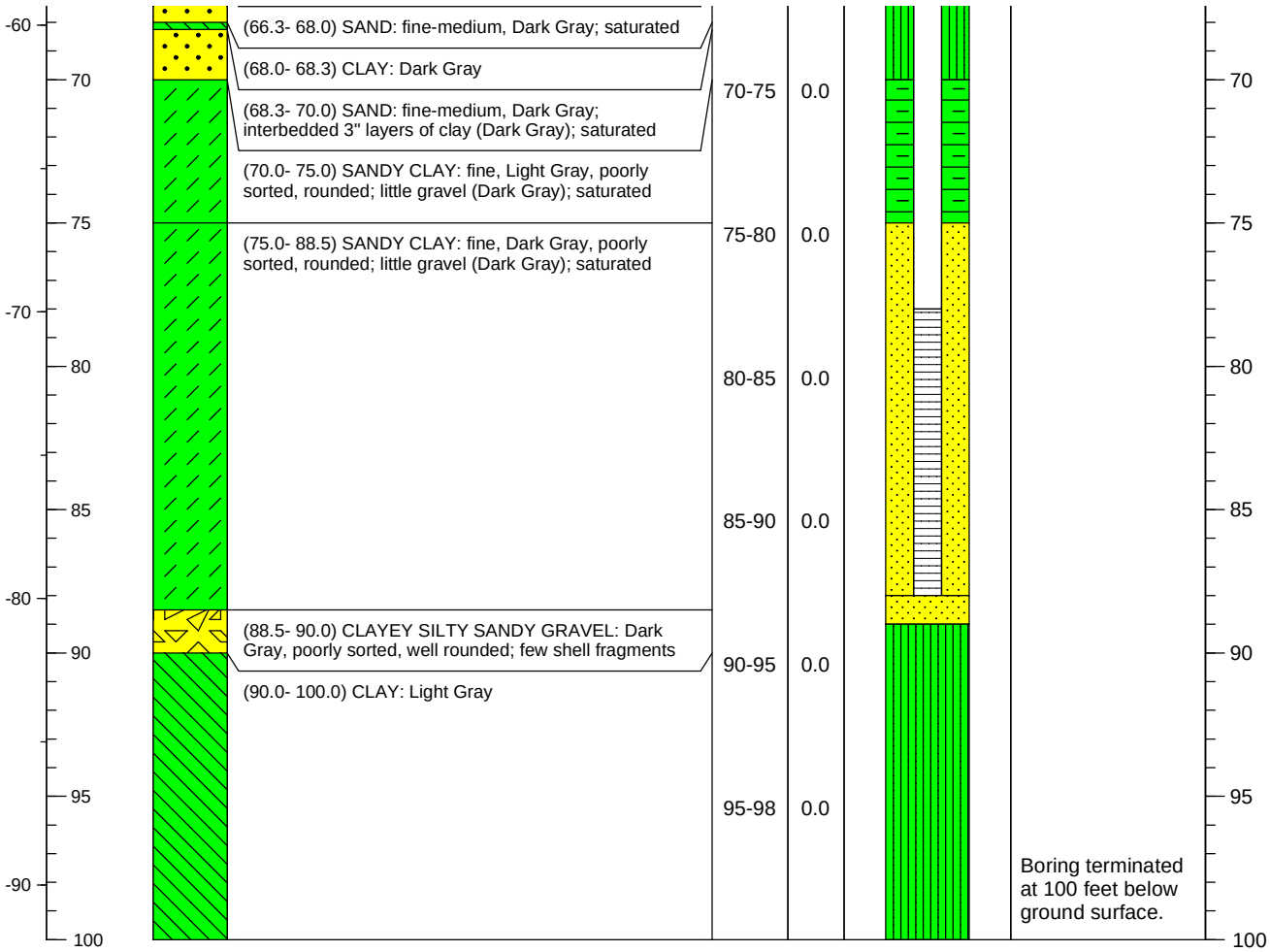
Project Name	Monitoring Well Construction Log	Well Number
Former Hercules Brunswick Facility Georgia		MW-50D

Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Boart Longyear** Drilling Equipment **Mini Sonic**	Northing **422952.2** Easting **872372.5** Well Screen Interval **78 - 88 ft**	Ground Surface Elevation **8.10** Top of Well Casing Elevation **8.01**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **88 ft**
Logged By **R. McLain** Approved By **D. Salisbury**	Date Drilling Started **3/14/12**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **100 ft** Boring Dia. **4 in. / 6 in.**
Driller Name **J. Sousa** Project Number **WBS30012B1**	Date Drilling Completed **3/15/12**	Sampling Method **4" Continuous Cores**	Headspace Monitoring Device **PID**

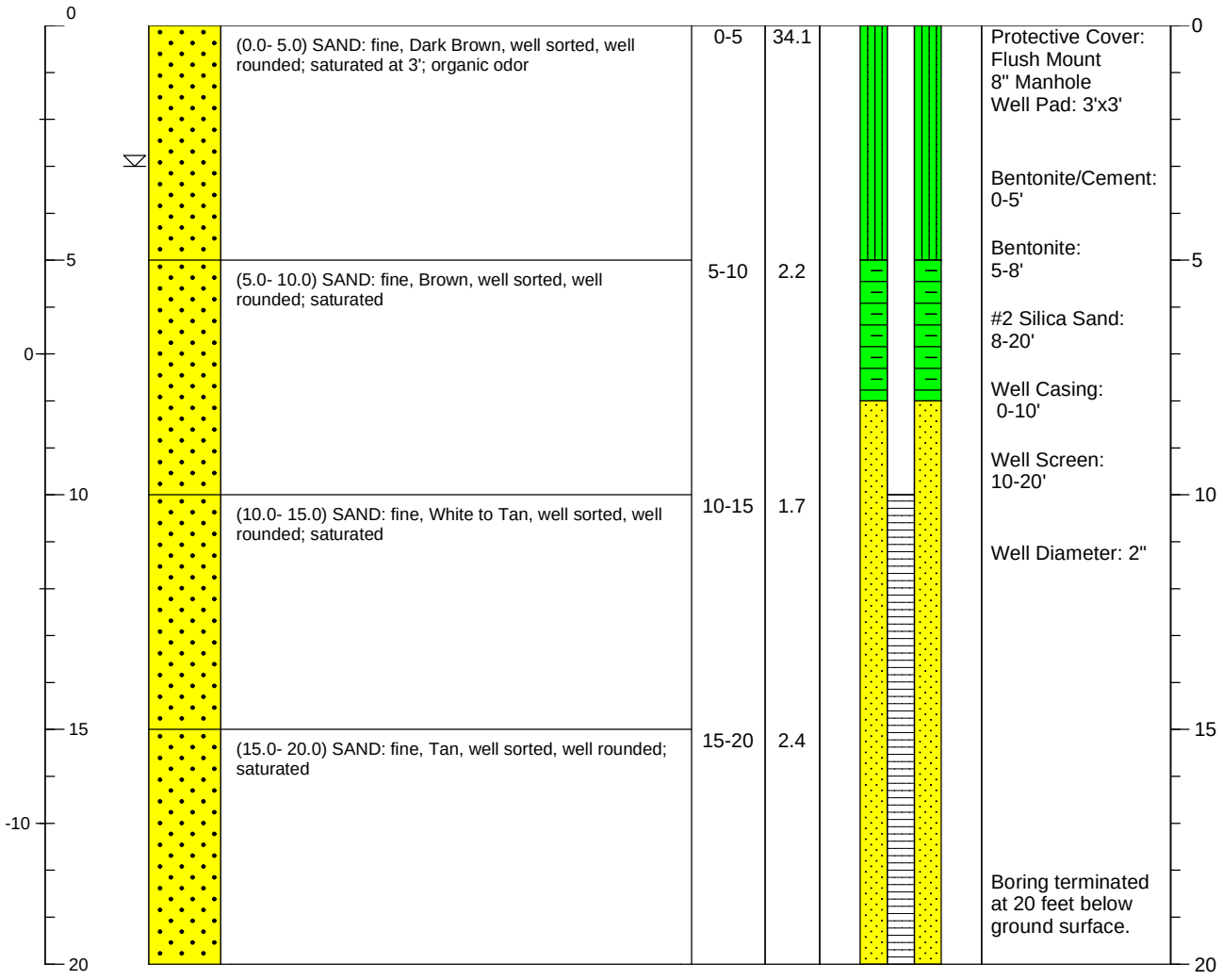
LITHOLOGY **SAMPLING DATA**



Water level in completed well

Project Name	Monitoring Well Construction Log	Well Number
Former Hercules Brunswick Facility Georgia		MW-51S

Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Boart Longyear** Drilling Equipment **Mini Sonic**	Northing **423424.6** Easting **8723733.4** Well Screen Interval **10-20 ft**	Ground Surface Elevation **7.00** Top of Well Casing Elevation **6.71**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **20 ft**
Logged By **R. McLain** Approved By **D. Salisbury**	Date Drilling Started **3/20/12**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **20 ft** Boring Dia. **4 in / 6 in.**
Driller Name **J. Sousa** Project Number **WBS30012B1**	Date Drilling Completed **3/21/12**	Sampling Method **4" Continuous Cores**	Headspace Monitoring Device **PID**



Water level in completed well

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Xinogen

Project Name	Monitoring Well Construction Log	Well Number
Former Hercules Brunswick Facility Georgia		MW-51I

Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Boart Longyear** Drilling Equipment **Mini Sonic**	Northing **423430.1** Easting **872734.5** Well Screen Interval **40-50 ft**	Ground Surface Elevation **7.10** Top of Well Casing Elevation **6.75**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **50 ft**
Logged By **R. McLain** Approved By **D. Salisbury**	Date Drilling Started **3/20/12**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **50 ft** Boring Dia. **4 in / 6 in.**
Driller Name **J. Sousa** Project Number **WBS30012B1**	Date Drilling Completed **3/21/12**	Sampling Method **4" Continuous Cores**	Headspace Monitoring Device **PID**

LITHOLOGY **SAMPLING DATA**

Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
0	0		(0.0- 5.0) SAND: fine, Dark Brown, well sorted, well rounded; saturated at 3'; organic odor	0-5	34.1		Protective Cover: Flush Mount 8" Manhole Well Pad: 3'x3'	0
	5		(5.0- 10.0) SAND: fine, Brown, well sorted, well rounded; saturated	5-10	2.2		Bentonite/Cement: 0-34'	5
0	10		(10.0- 15.0) SAND: fine, White to Tan, well sorted, well rounded; saturated	10-15	1.7		Bentonite: 34-38'	10
	15		(15.0- 20.0) SAND: fine, Tan, well sorted, well rounded; saturated	15-20	2.4		#2 Silica Sand: 38-50'	15
-10	20		(20.0- 40.0) SAND: fine, Gray, well sorted, well rounded; saturated	20-25	1.4		Well Casing: 0-40'	20
	25			25-30	0.1		Well Screen: 40-50'	25
-20	30			30-35	0.1		Well Diameter: 2"	30
	35			35-40	0.0			35
-30	40		(40.0- 45.0) NO RECOVERY	40-45	NA			40
	45		(45.0- 50.0) SAND: medium, Gray, sorted, rounded; saturated; 10% shell fragments (~3 mm dia.)	45-50	0.0		Boring terminated at 50 feet below ground surface.	45
-40	50							50

▽ Water level in completed well

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Project Name	Monitoring Well Construction Log	Well Number
Former Hercules Brunswick Facility Georgia		MW-51D

Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Boart Longyear** Drilling Equipment **Mini Sonic**	Northing **423435.3** Easting **872735.5** Well Screen Interval **76 - 86 ft**	Ground Surface Elevation **7.10** Top of Well Casing Elevation **6.68**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **86 ft**
Logged By **R. McLain** Approved By **D. Salisbury**	Date Drilling Started **3/20/12**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **110 ft** Boring Dia. **4 in / 6 in.**
Driller Name **J. Sousa** Project Number **WBS30012B1**	Date Drilling Completed **3/21/12**	Sampling Method **4" Continuous Cores**	Headspace Monitoring Device **PID**

LITHOLOGY **SAMPLING DATA**

Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
0	0		(0.0- 5.0) SAND: fine, Dark Brown, well sorted, well rounded; saturated at 3'; organic odor	0-5	34.1		Protective Cover: Flush Mount 8" Manhole Well Pad: 3'x3'	0
	5		(5.0- 10.0) SAND: fine, Brown, well sorted, well rounded; saturated	5-10	2.2		Bentonite/Cement: 0-70'	5
0	10		(10.0- 15.0) SAND: fine, White to Tan, well sorted, well rounded; saturated	10-15	1.7		Bentonite: 70-73'	10
	15		(15.0- 20.0) SAND: fine, Tan, well sorted, well rounded; saturated	15-20	2.4		#2 Silica Sand: 73-87'	15
-10	20		(20.0- 40.0) SAND: fine, Gray, well sorted, well rounded; saturated	20-25	1.4		Well Casing: 0-76'	20
	25			25-30	0.1		Well Screen: 76-86'	25
-20	30			30-35	0.1		Well Diameter: 2"	30
	35			35-40	0.0		Backfill: Hydrated 3/8" Bentonite Chips: 87-110'	35
-30								

▽ Water level in completed well

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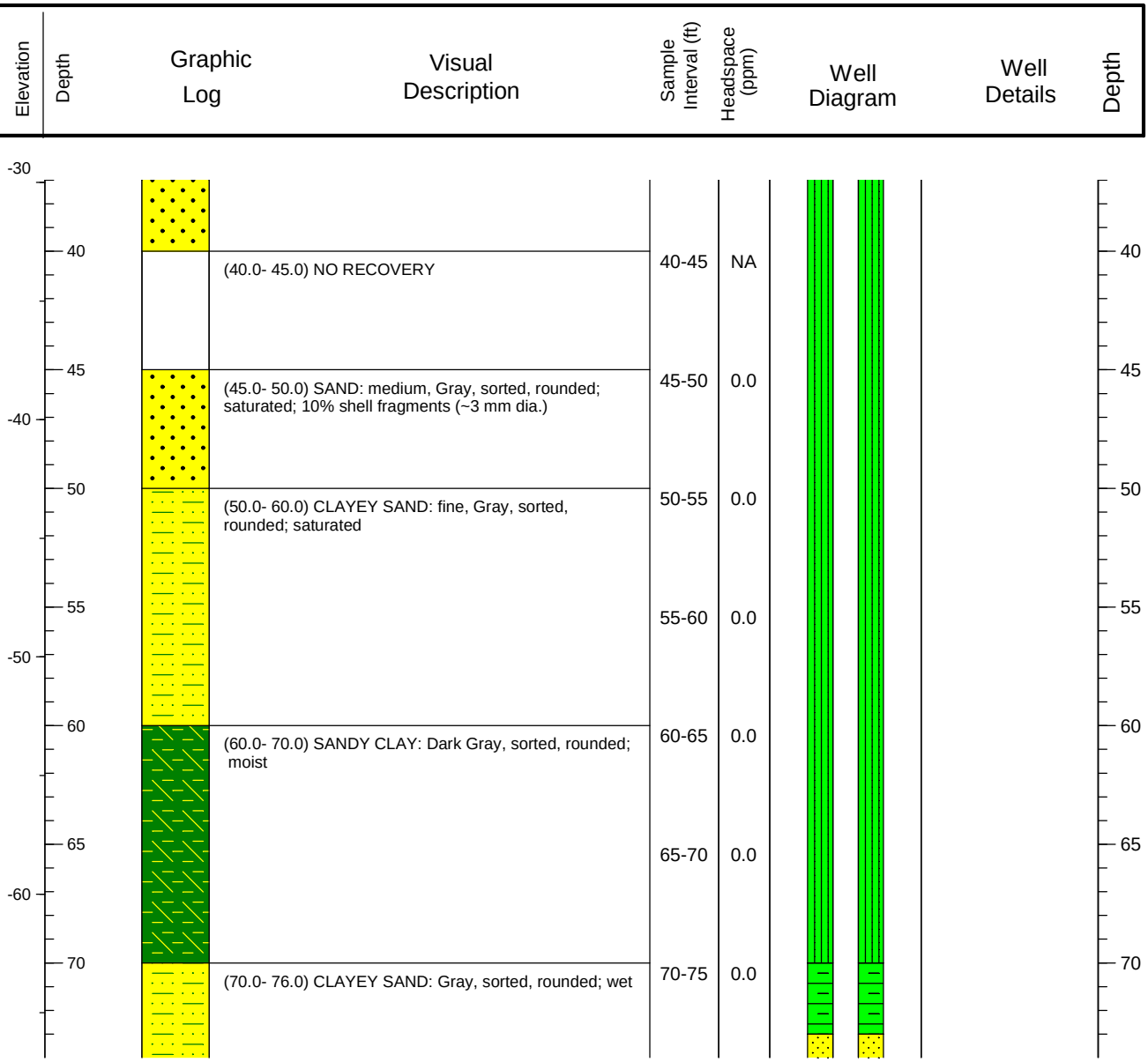
Project Name	Monitoring Well Construction Log	Well Number
Former Hercules Brunswick Facility Georgia		MW-51D

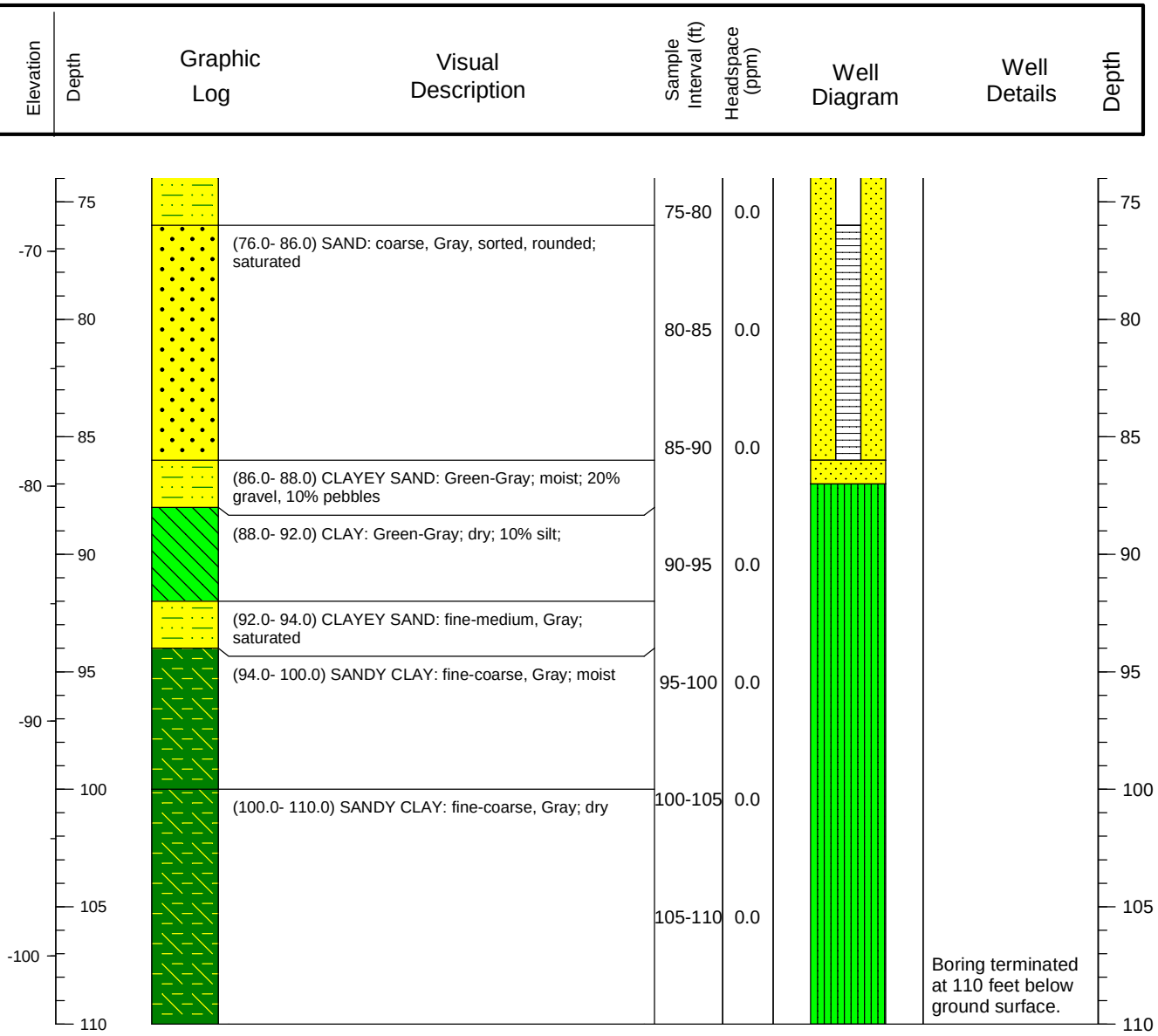
Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Boart Longyear** Drilling Equipment **Mini Sonic**	Northing **423435.3** Easting **872735.5** Well Screen Interval **76 - 86 ft**	Ground Surface Elevation **7.10** Top of Well Casing Elevation **6.68**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **86 ft**
Logged By **R. McLain** Approved By **D. Salisbury**	Date Drilling Started **3/20/12**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **110 ft** Boring Dia. **4 in / 6 in.**
Driller Name **J. Sousa** Project Number **WBS30012B1**	Date Drilling Completed **3/21/12**	Sampling Method **4" Continuous Cores**	Headspace Monitoring Device **PID**



Water level in completed well

Project Name	Monitoring Well Construction Log	Well Number
Former Hercules Brunswick Facility Georgia		MW-51D

Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Boart Longyear** Drilling Equipment **Mini Sonic**	Northing **423435.3** Easting **872735.5** Well Screen Interval **76 - 86 ft**	Ground Surface Elevation **7.10** Top of Well Casing Elevation **6.68**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **86 ft**
Logged By **R. McLain** Approved By **D. Salisbury**	Date Drilling Started **3/20/12**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **110 ft** Boring Dia. **4 in / 6 in.**
Driller Name **J. Sousa** Project Number **WBS30012B1**	Date Drilling Completed **3/21/12**	Sampling Method **4" Continuous Cores**	Headspace Monitoring Device **PID**

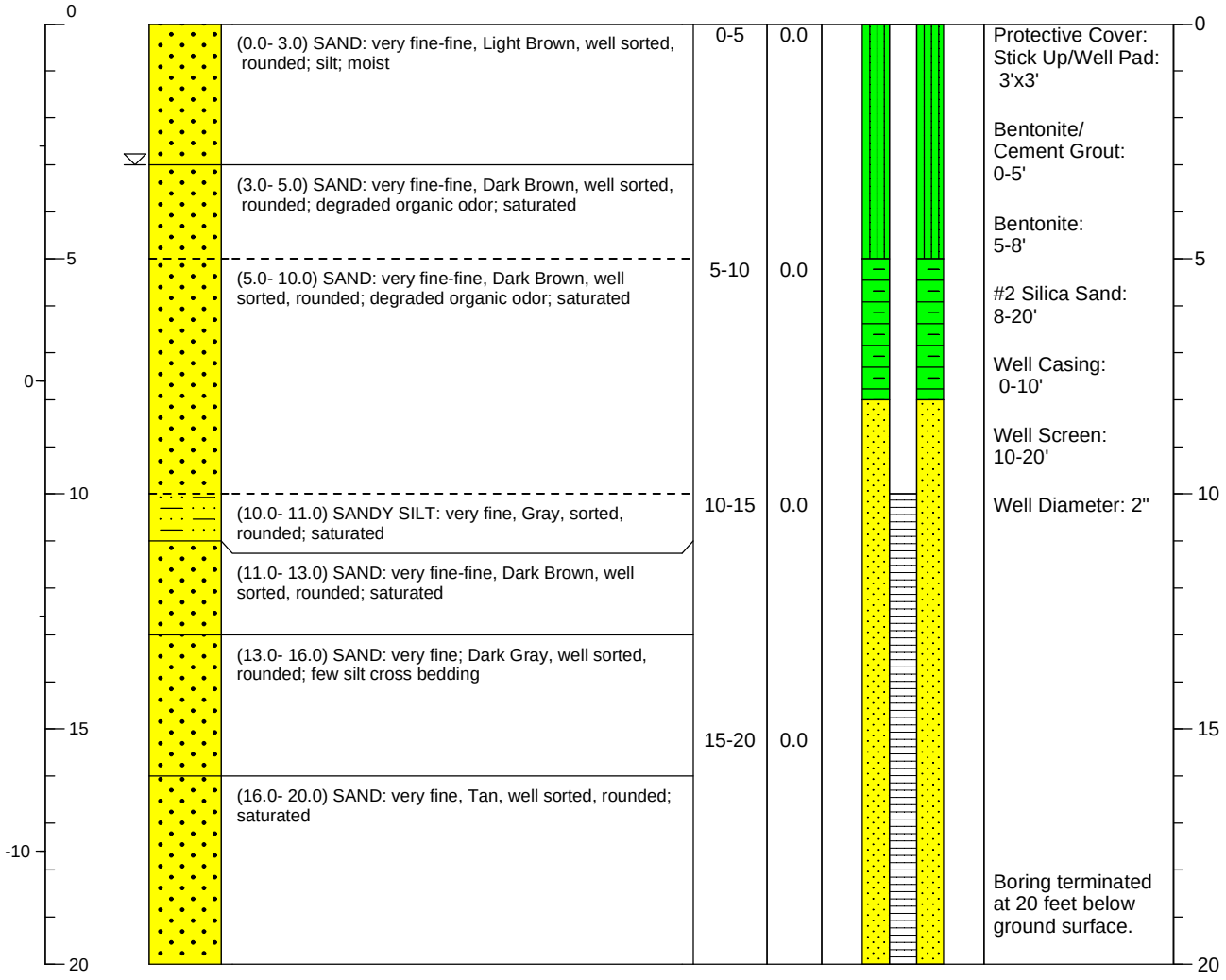


Water level in completed well

Project Name	Monitoring Well Construction Log	Well Number
Former Hercules Brunswick Facility Georgia		MW-52S

Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Boart Longyear** Drilling Equipment **Mini Sonic**	Northing **425611.9** Easting **872662.5** Well Screen Interval **10 - 20 ft**	Ground Surface Elevation **7.60** Top of Well Casing Elevation **7.26**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **20 ft**
Logged By **R. McLain** Approved By **D. Salisbury**	Date Drilling Started **3/15/12**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **20 ft** Boring Dia. **4 in. / 6 in.**
Driller Name **J. Sousa** Project Number **WBS30012B1**	Date Drilling Completed **3/15/12**	Sampling Method **4" Continuous Cores**	Headspace Monitoring Device **PID**

LITHOLOGY **SAMPLING DATA**

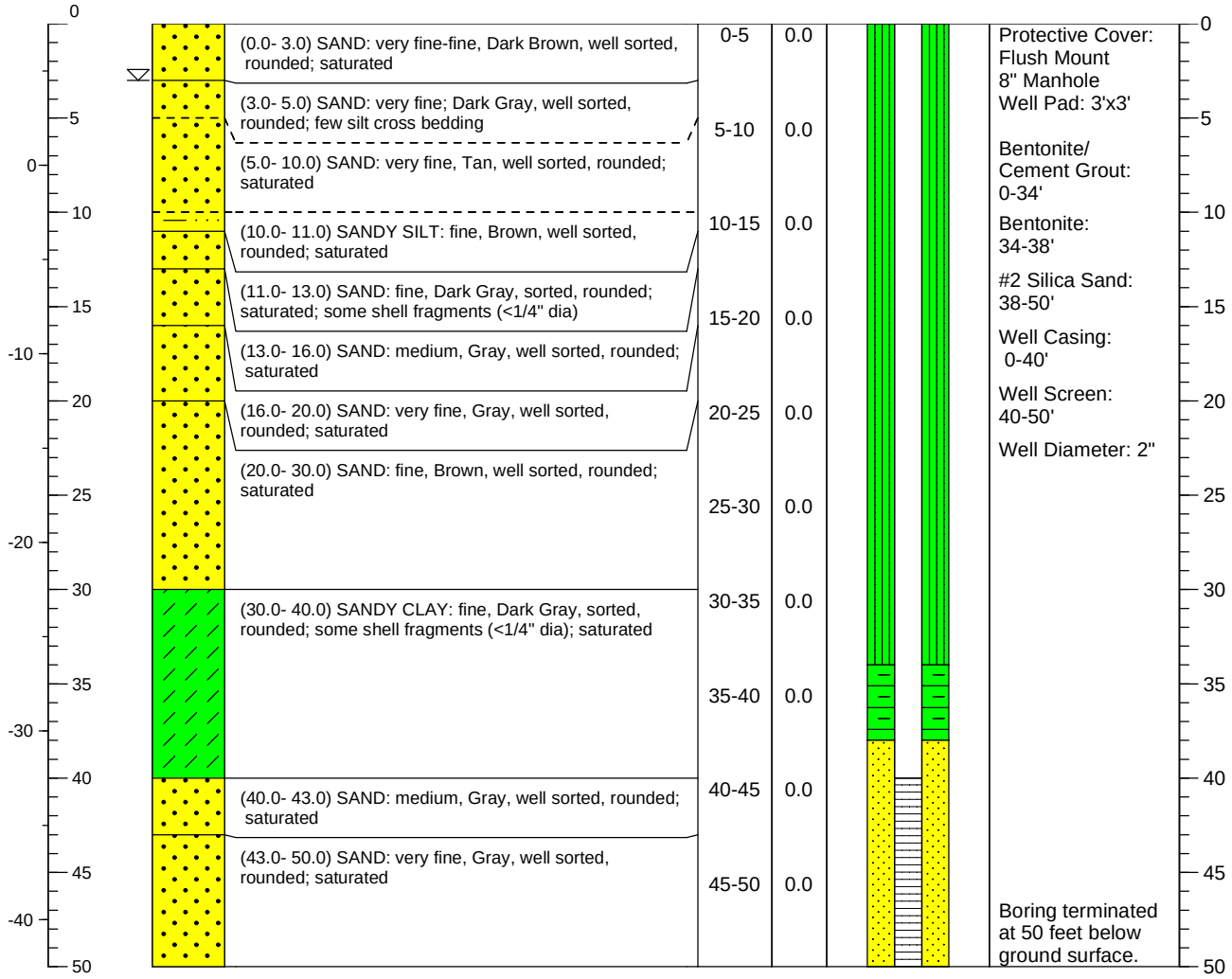


Water level in completed well

Project Name	Monitoring Well Construction Log	Well Number
Former Hercules Brunswick Facility Georgia		MW-52I

Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Boart Longyear** Drilling Equipment **Mini Sonic**	Northing **425604.1** Easting **872662.9** Well Screen Interval **40 - 50 ft**	Ground Surface Elevation **7.50** Top of Well Casing Elevation **7.33**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **50 ft**
Logged By **R. McLain** Approved By **D. Salisbury**	Date Drilling Started **3/15/12**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **50 ft** Boring Dia. **4 in. / 6 in.**
Driller Name **J. Sousa** Project Number **WBS30012B1**	Date Drilling Completed **3/16/12**	Sampling Method **4" Continuous Cores**	Headspace Monitoring Device **PID**

LITHOLOGY **SAMPLING DATA**

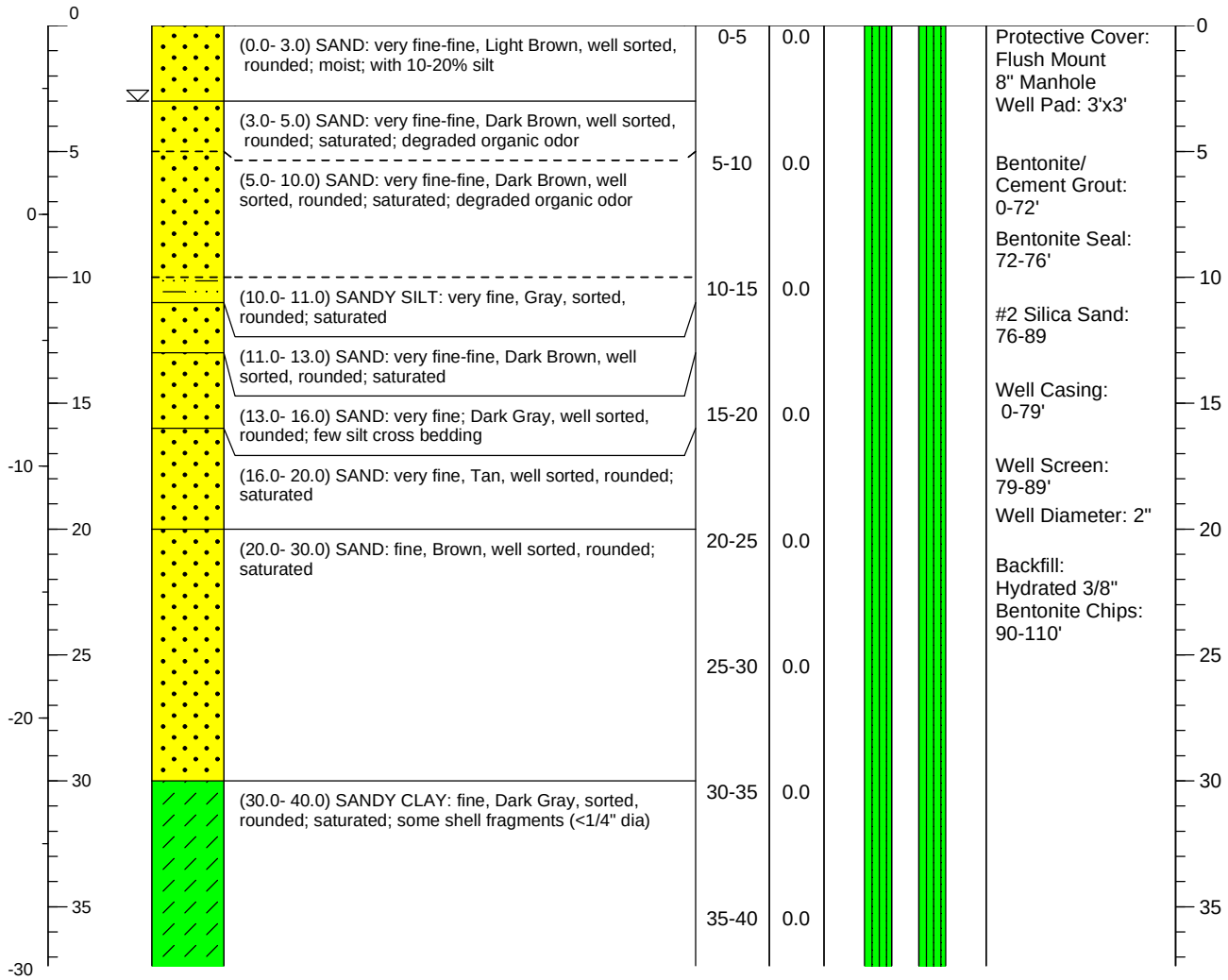


Water level in completed well

Project Name	Monitoring Well Construction Log	Well Number
Former Hercules Brunswick Facility Georgia		MW-52D

Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Boart Longyear** Drilling Equipment **Mini Sonic**	Northing **425608.4** Easting **872668.8** Well Screen Interval **79 - 89 ft**	Ground Surface Elevation **7.50** Top of Well Casing Elevation **7.41**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **89 ft**
Logged By **R. McLain** Approved By **D. Salisbury**	Date Drilling Started **3/15/12**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **110 ft** Boring Dia. **4 in. / 6 in.**
Driller Name **J. Sousa** Project Number **WBS30012B1**	Date Drilling Completed **3/16/12**	Sampling Method **4" Continuous Cores**	Headspace Monitoring Device **PID**

LITHOLOGY **SAMPLING DATA**

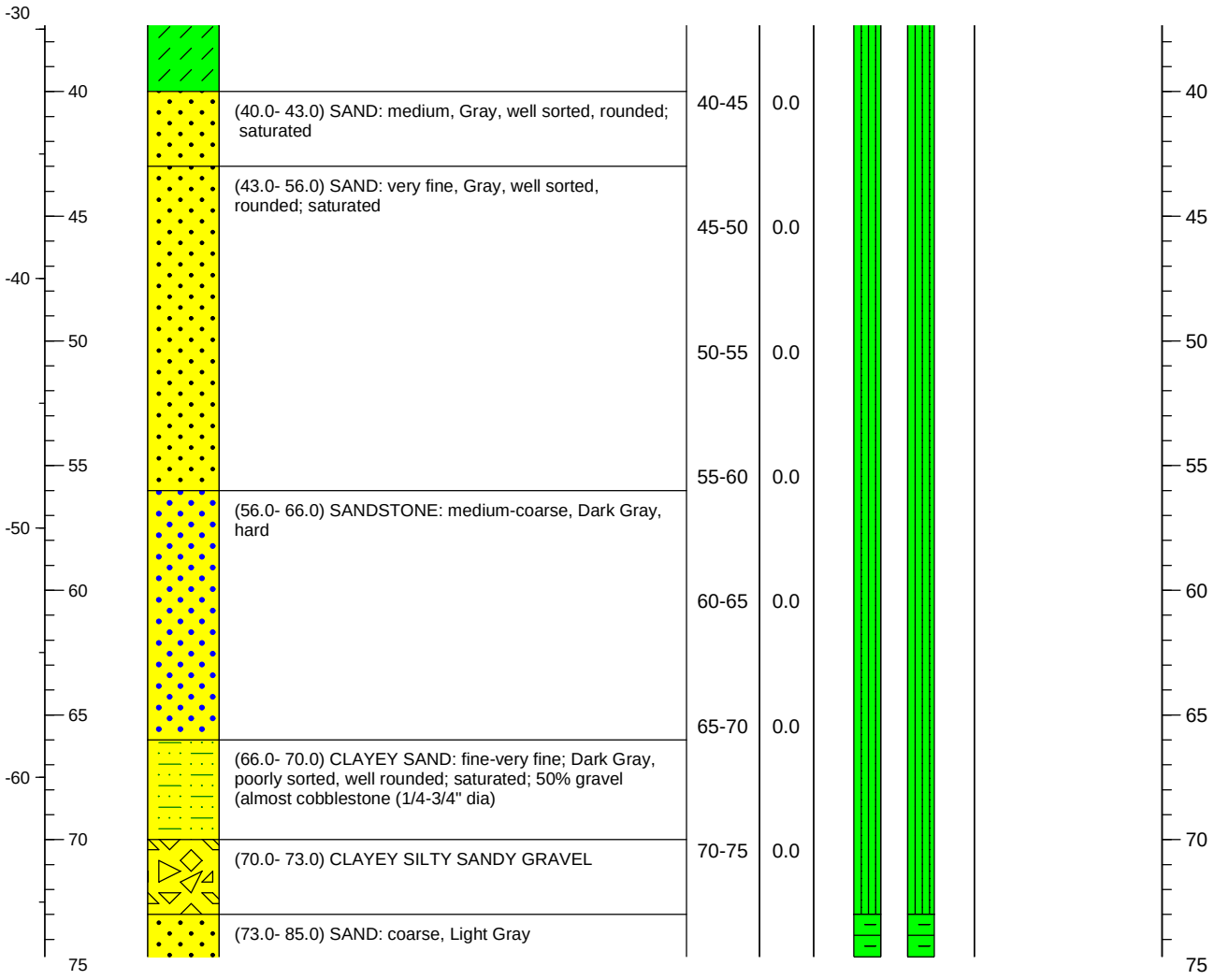


Water level in completed well

Project Name	Monitoring Well Construction Log	Well Number
Former Hercules Brunswick Facility Georgia		MW-52D

Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Boart Longyear** Drilling Equipment **Mini Sonic**	Northing **425608.4** Easting **872668.8** Well Screen Interval **79 - 89 ft**	Ground Surface Elevation **7.50** Top of Well Casing Elevation **7.41**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **89 ft**
Logged By **R. McLain** Approved By **D. Salisbury**	Date Drilling Started **3/15/12**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **110 ft** Boring Dia. **4 in. / 6 in.**
Driller Name **J. Sousa** Project Number **WBS30012B1**	Date Drilling Completed **3/16/12**	Sampling Method **4" Continuous Cores**	Headspace Monitoring Device **PID**

LITHOLOGY **SAMPLING DATA**

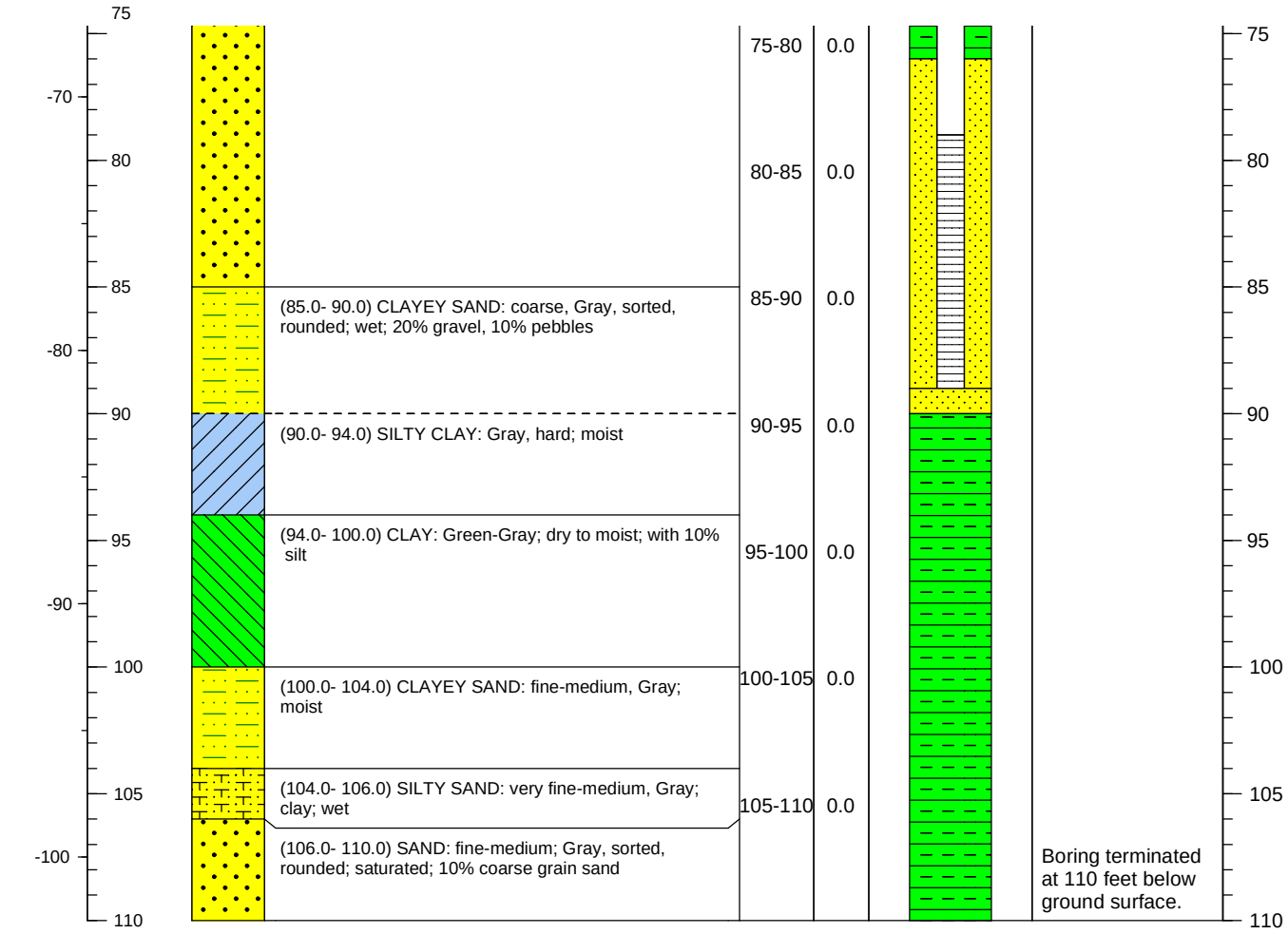


Water level in completed well

Project Name	Monitoring Well Construction Log	Well Number
Former Hercules Brunswick Facility Georgia		MW-52D

Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Boart Longyear** Drilling Equipment **Mini Sonic**	Northing **425608.4** Easting **872668.8** Well Screen Interval **79 - 89 ft**	Ground Surface Elevation **7.50** Top of Well Casing Elevation **7.41**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **89 ft**
Logged By **R. McLain** Approved By **D. Salisbury**	Date Drilling Started **3/15/12**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **110 ft** Boring Dia. **4 in. / 6 in.**
Driller Name **J. Sousa** Project Number **WBS30012B1**	Date Drilling Completed **3/16/12**	Sampling Method **4" Continuous Cores**	Headspace Monitoring Device **PID**

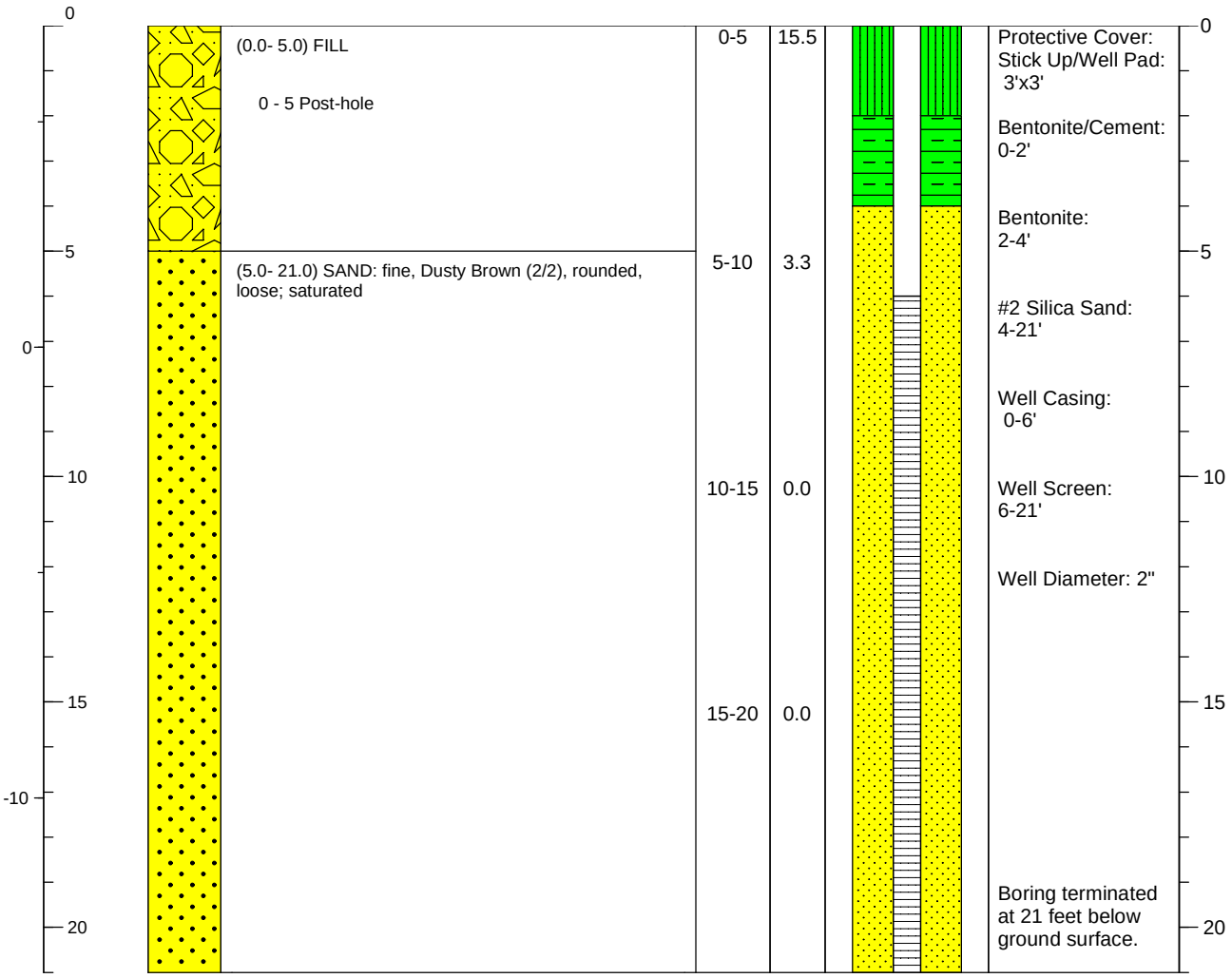
LITHOLOGY **SAMPLING DATA**



Water level in completed well

Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**MW-53S**
Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Rousie SR1 w/Detric Head**	Northing **424165.610** Easting **871731.447** Well Screen Interval **6-21 ft**	Ground Surface Elevation **7.13** Top of Well Casing Elevation **10.14**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **21 ft**
Logged By **R. McLain** Approved By **R. Cate**	Date Drilling Started **4/7/10**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **21 ft** Boring Dia. **6 in.**
Driller Name **B. Niles** Project Number **WBS30012B1**	Date Drilling Completed **4/7/10**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

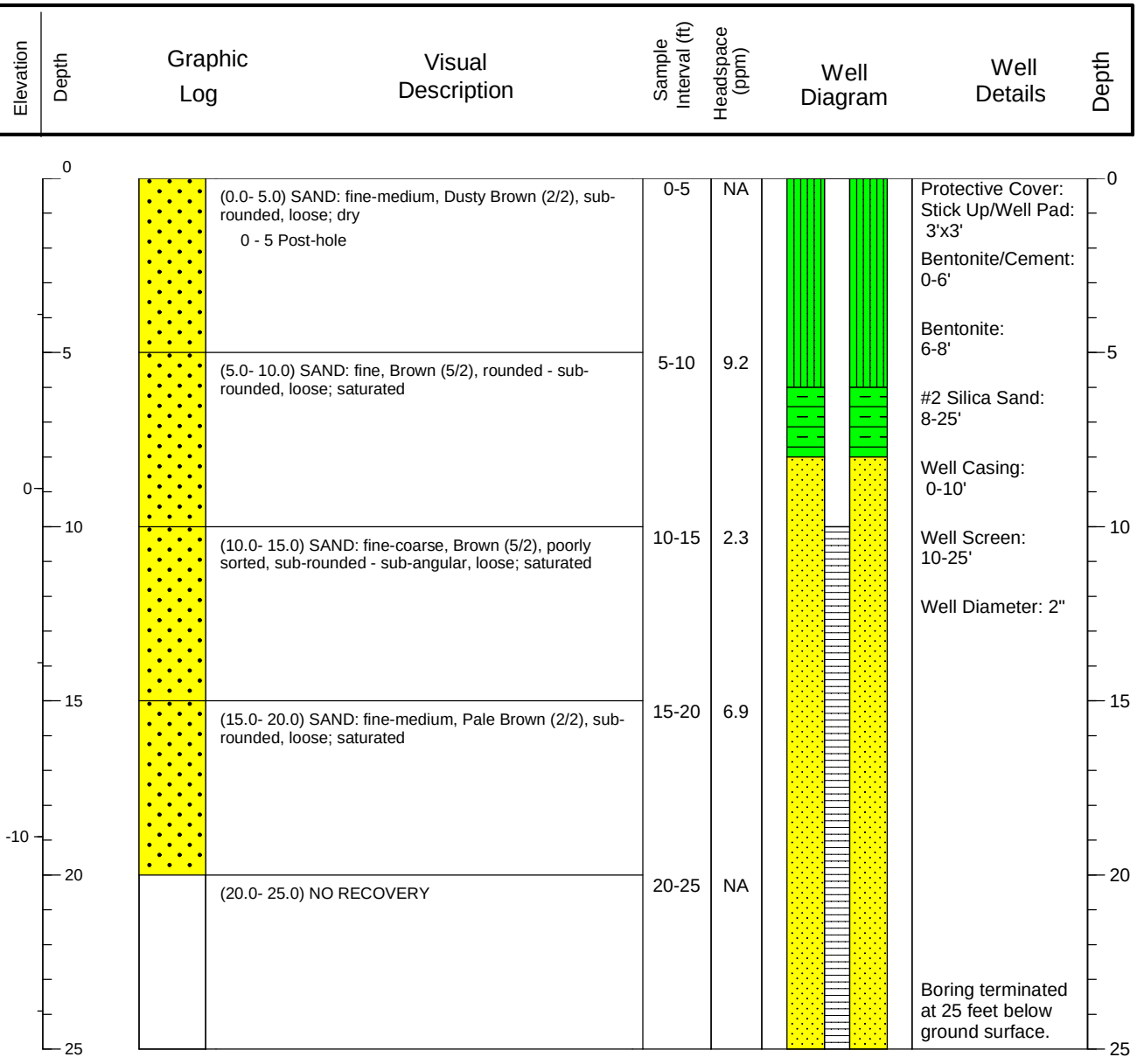
LITHOLOGY **SAMPLING DATA**



Page 1 of 1

Water level in completed well

Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**MW-54S**
Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Rousie SR1 w/Detric Head**	Northing **424965.830** Easting **870896.370** Well Screen Interval **10-25 ft**	Ground Surface Elevation **8.90** Top of Well Casing Elevation **11.24**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **25 ft**
Logged By **J. Soban** Approved By **R. Cate**	Date Drilling Started **4/13/10**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **25 ft** Boring Dia. **6 in.**
Driller Name **B. Niles** Project Number **WBS30012B1**	Date Drilling Completed **4/13/10**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**



Water level in completed well

Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**MW-54I**
Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Rousie SR1 w/Detric Head**	Northing **424962.340** Easting **870897.820** Well Screen Interval **40-55 ft**	Ground Surface Elevation **8.92** Top of Well Casing Elevation **11.23**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **55 ft**
Logged By **J. Soban** Approved By **R. Cate**	Date Drilling Started **4/13/10**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **55 ft** Boring Dia. **6 in.**
Driller Name **B. Niles** Project Number **WBS30012B1**	Date Drilling Completed **4/13/10**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

LITHOLOGY **SAMPLING DATA**

Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
0	0		(0.0- 5.0) SAND: fine-medium, Dusty Brown (2/2), sub-rounded, loose; dry 0 - 5 Post-hole	0-5	NA		Protective Cover: Stick Up/Well Pad: 3'x3' Bentonite/Cement: 0-36' Bentonite: 36-38' #2 Silica Sand: 38-55' Well Casing: 0-40' Well Screen: 40-55' Well Diameter: 2"	0
	5		(5.0- 10.0) SAND: fine, Brown (5/2), rounded - sub-rounded, loose; saturated	5-10	9.2			5
0	10		(10.0- 15.0) SAND: fine-coarse, Brown (5/2), poorly sorted, sub-rounded - sub-angular, loose; saturated	10-15	2.3			10
	15		(15.0- 20.0) SAND: fine-medium, Pale Brown (2/2), sub-rounded, loose; saturated	15-20	6.9			15
-10	20		(20.0- 25.0) NO RECOVERY	20-25	NA			20
	25		(25.0- 30.0) SAND: fine-coarse, Medium Gray (N4), poorly sorted, sub-rounded - sub-angular; saturated	25-30	18.5			25

▼ Water level in completed well

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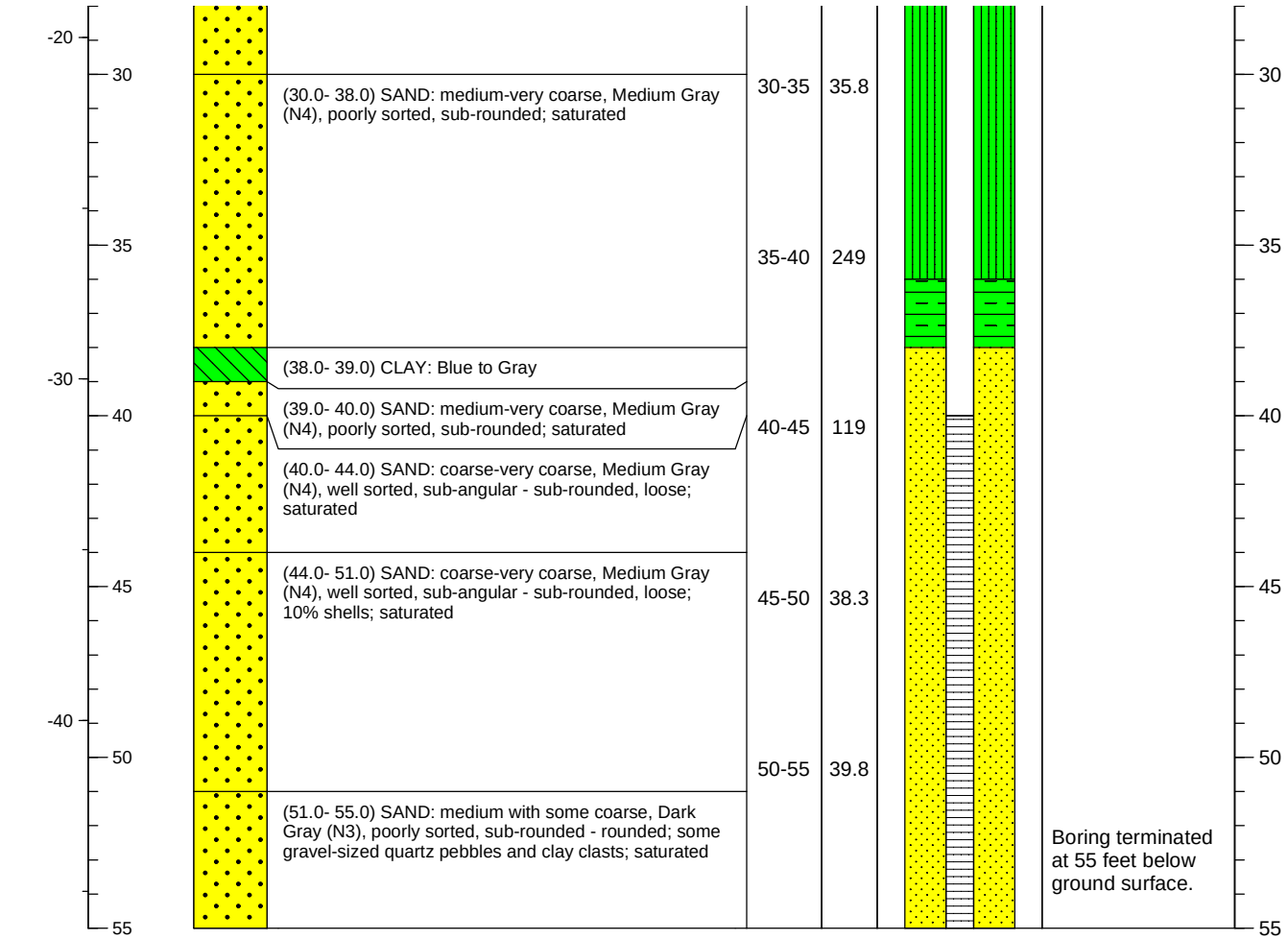
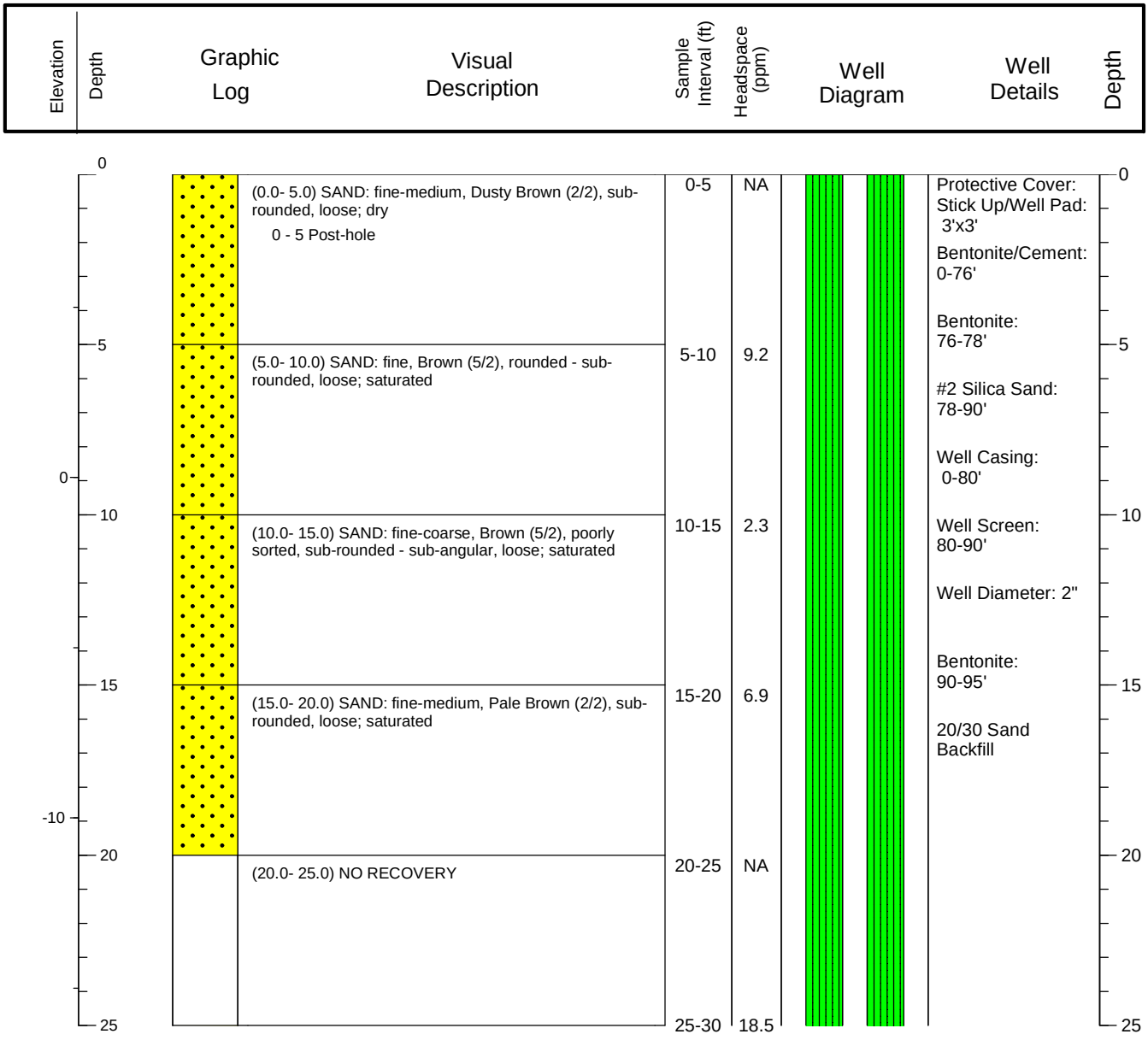
Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**MW-54I**
Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Rousie SR1 w/Detric Head**	Northing **424962.340** Easting **870897.820** Well Screen Interval **40-55 ft**	Ground Surface Elevation **8.92** Top of Well Casing Elevation **11.23**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **55 ft**
Logged By **J. Soban** Approved By **R. Cate**	Date Drilling Started **4/13/10**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **55 ft** Boring Dia. **6 in.**
Driller Name **B. Niles** Project Number **WBS30012B1**	Date Drilling Completed **4/13/10**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

LITHOLOGY **SAMPLING DATA**



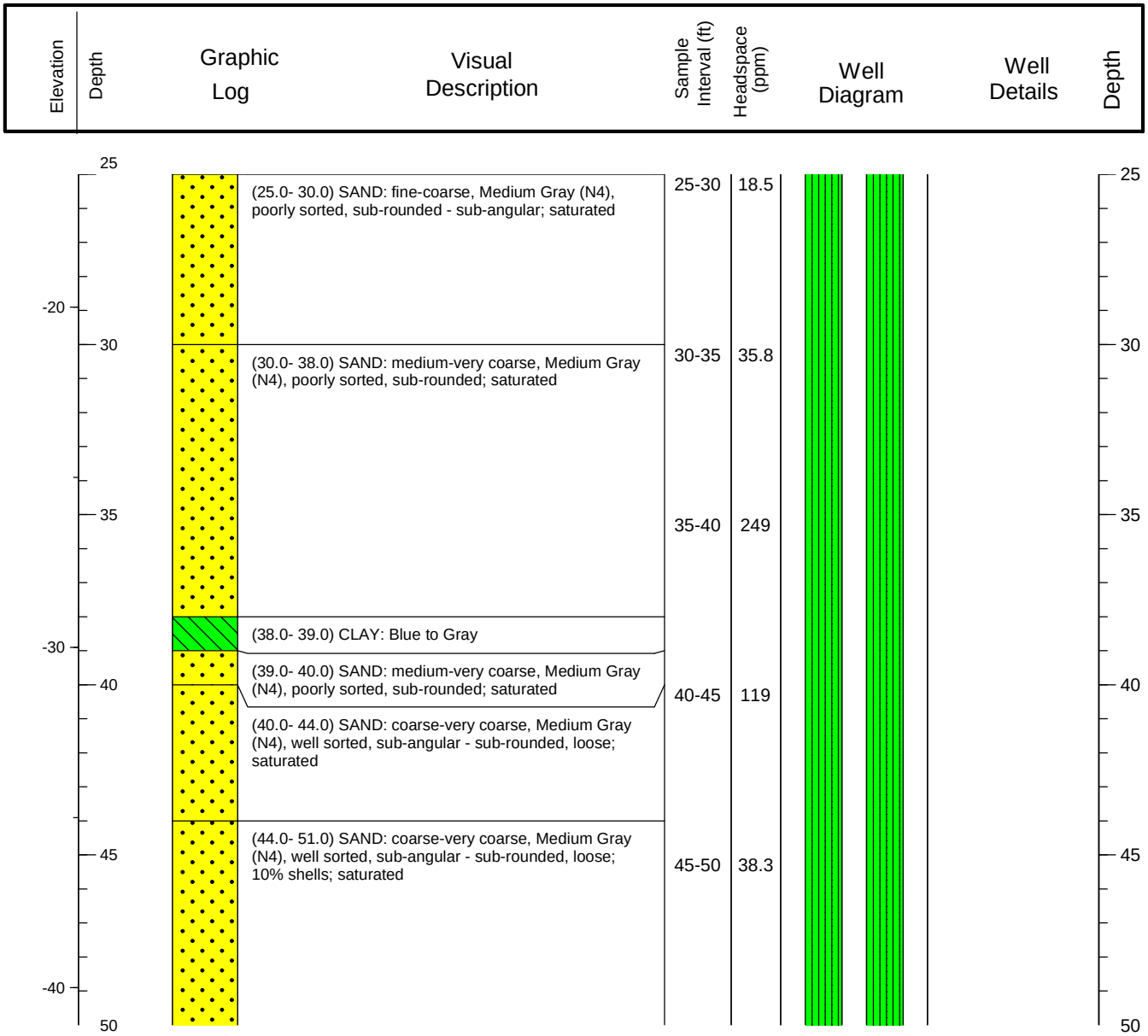
Water level in completed well

Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**MW-54D**
Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Rousie SR1 w/Detric Head**	Northing **424957.870** Easting **870899.810** Well Screen Interval **81-91 ft**	Ground Surface Elevation **8.90** Top of Well Casing Elevation **11.20**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **90 ft**
Logged By **J. Soban** Approved By **R. Cate**	Date Drilling Started **4/13/10**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **100 ft** Boring Dia. **6 in.**
Driller Name **B. Niles** Project Number **WBS30012B1**	Date Drilling Completed **4/13/10**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**



Water level in completed well

Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**MW-54D**
Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Rousie SR1 w/Detric Head**	Northing **424957.870** Easting **870899.810** Well Screen Interval **81-91 ft**	Ground Surface Elevation **8.90** Top of Well Casing Elevation **11.20**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **90 ft**
Logged By **J. Soban** Approved By **R. Cate**	Date Drilling Started **4/13/10**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **100 ft** Boring Dia. **6 in.**
Driller Name **B. Niles** Project Number **WBS30012B1**	Date Drilling Completed **4/13/10**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**



Water level in completed well

Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**MW-54D**
Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Rousie SR1 w/Detric Head**	Northing **424957.870** Easting **870899.810** Well Screen Interval **81-91 ft**	Ground Surface Elevation **8.90** Top of Well Casing Elevation **11.20**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **90 ft**
Logged By **J. Soban** Approved By **R. Cate**	Date Drilling Started **4/13/10**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **100 ft** Boring Dia. **6 in.**
Driller Name **B. Niles** Project Number **WBS30012B1**	Date Drilling Completed **4/13/10**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

LITHOLOGY **SAMPLING DATA**

Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
	50			50-55	39.8			50
			(51.0- 57.0) SAND: medium with some coarse, Dark Gray (N3), poorly sorted, sub-rounded - rounded; some gravel-sized quartz pebbles and clay clasts; saturated					
	55			55-60	34.7			55
-50			(57.0- 60.0) SANDY CLAY: Dark Gray (N3); some fine-medium sand; saturated					
	60		(60.0- 65.0) SAND: medium-coarse, Medium Gray (N4), poorly sorted, sub-rounded - rounded; few gravel-sized rounded quartz pebbles; saturated	60-65	24.9			60
	65		(65.0- 68.0) SAND: medium-very coarse, Medium Gray (N4), poorly sorted, sub-rounded - rounded, loose; few gravel-sized rounded quartz pebbles; saturated	65-70	25.7			65
-60			(68.0- 70.0) SAND: medium-very coarse, Medium Gray (N4), poorly sorted, sub-rounded - rounded, loose; some clay (clayey sand), few gravel-sized rounded quartz pebbles; saturated					
	70		(70.0- 73.0) SAND: fine-coarse, Light Gray (N6), poorly sorted, sub-angular - sub-rounded; some clay (clayey sand); saturated	70-75	8.9			70
			(73.0- 76.0) SAND: medium-coarse, Medium Gray (N4), poorly sorted, sub-rounded-rounded; saturated					
	75							75

Water level in completed well

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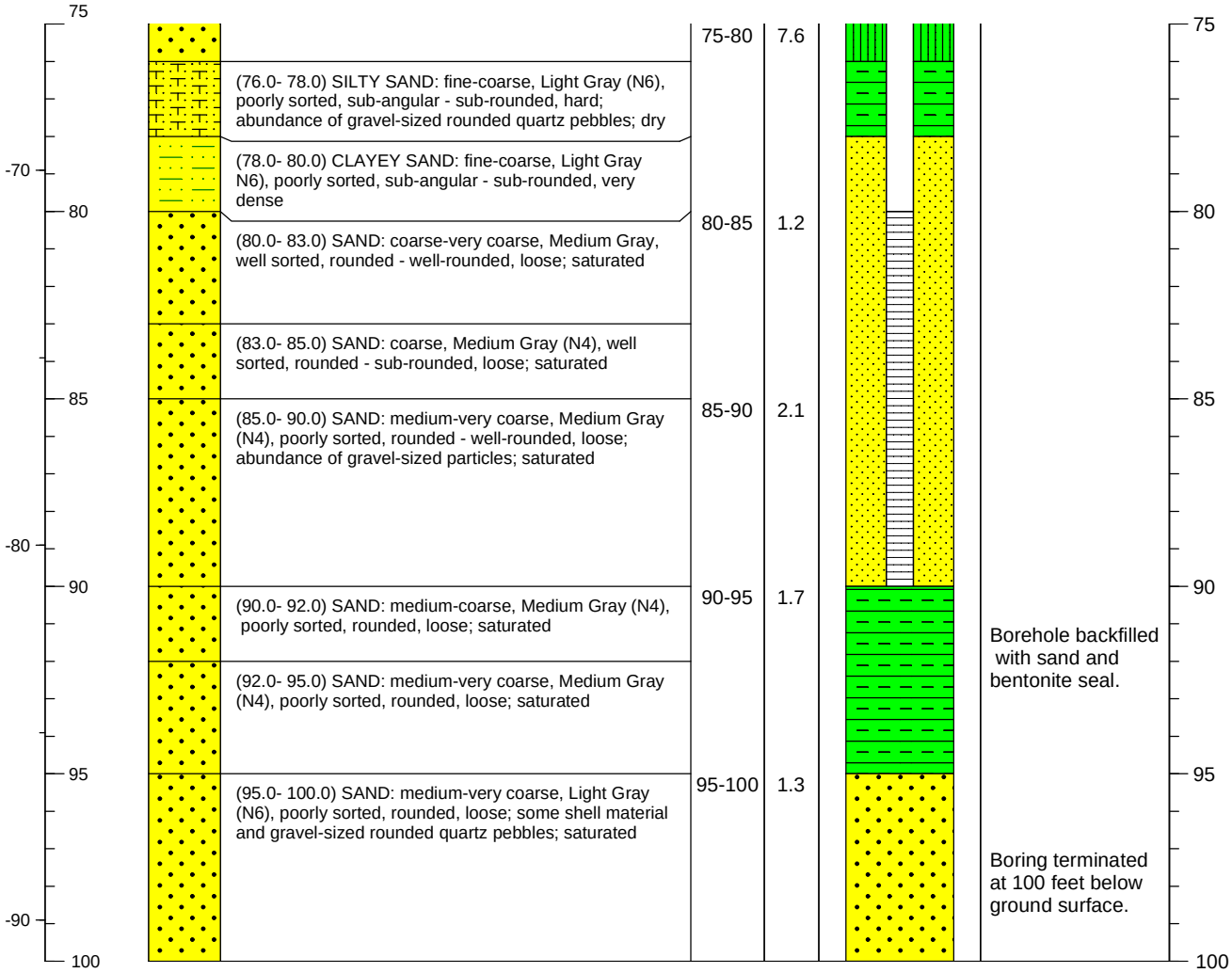
Xinogen

Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**MW-54D**
Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Rousie SR1 w/Detric Head**	Northing **424957.870** Easting **870899.810** Well Screen Interval **81-91 ft**	Ground Surface Elevation **8.90** Top of Well Casing Elevation **11.20**
GA EPD Number **GAD004065520**	Drilling Method **Sonic Drilling**	Well Screen Slot Size **0.01 inch**	Total Well Depth **90 ft**
Logged By **J. Soban** Approved By **R. Cate**	Date Drilling Started **4/13/10**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **100 ft** Boring Dia. **6 in.**
Driller Name **B. Niles** Project Number **WBS30012B1**	Date Drilling Completed **4/13/10**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

LITHOLOGY **SAMPLING DATA**



▼ Water level in completed well

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anteagroup	Boring No. HP-III-59		Page 1 of 4
			Drilling Method:
	Contractor: Boart Longyear		Roto sonic
			Drill Rig: PS Sonic
Project Name and Location: **Ashland/Pinova Brunswick, GA**	Drill Crew: Tommy Ardito		
	Date Started: 11/29/2013		Date Finished: 11/29/2013
	Logged by: Hartford Hight		Protective cover: N/A

Well Construction Information:	N/A				
Packer Interval (feet bgs):	89 - 99	Screen Set:	N/A	Water level while drilling (feet bgs):	
Filter pack interval (feet bgs):	N/A	Riser:	N/A	Not Measured	
Seal interval (feet bgs):	N/A	Seal type:	N/A	Water level at completion (feet bgs):	
Grout Interval (feet bgs):	N/A	Filter pack:	N/A	Boring Abandoned After Drilling	

DEPTH	SAMPLE INTERVAL	PID (PPM)	Recovery inches	Lithology	SAMPLE DESCRIPTION SAND[1], silty[2], fine to medium grained[3], brownish grey[4], loose[5], wet[6]
2					AK to 7 feet, rod probed to 11 feet. Clearance took place prior to arrival of driller 0-6 ft. no recovery.
4					Groundwater estimated 4-5 ft.
6		2.8	0/60		sand, fine grained, well sorted, some silt, organic, black-dark grey.
8		2.4			
10		3.5			
12		3.1			sand, fine grained, abundant shell fragments, angular, poorly sorted, trace silt. Dark Gray.
14		2.3			
16		1.7	64/120		sand fine grained, abundant shell fragments, angular <2mm. Poorly sorted, some silt, dark gray.
18		1.8			
20		2.2			
22		2.0			21-21.5 sandy clay fine grained, dark gray, stiff. 21.5-21.8 clay, some sand, fine grained, stiff. Dark gray. 21.8-28 sand fine grained well sorted, trace clay, dark gray.
24		1.8			

			Boring No. HP-III-59		Page 2 of 4
DEPTH	SAMPLE INTERVAL	PID (PPM)	Recovery	Lithology	Sample Description / Depths are in Feet Below Ground Surface SAND[1], silty[2], fine to medium grained[3], brownish grey[4], loose[5], wet[6]
26		2.9	120/120		
28		2.8			29-29.8 clay, some sand, fine grained, sand is <15%, dark gray.
30		2.6			29.8-31.8 sandy clay, fine grained, dark gray.
32		1.9			31.8-35.7 Sand, med. To fine grained, sub rounded. Shell fragments <2mm approx. 15%. Dark gray.
34		2.8			
36		4.7	120/120		35.7-36.8 sandy clay, fine grained. Dark Gray
38		3.9			36.8-40.7 Sand, med. To fine grained shell fragments <15%. Dark Gray.
40		3.2			
42		2.6			40.7-41 sandy clay, fine grained. Dark gray. Sand, med. To fine grained, shell fragments, angular, <1mm, 15%, trace clay. Dark gray.
44		2.2			
46		2.2	120/120		Sand, med. To fine grained, poorly sorted, shell fragments, angular 25%. Dark gray.
48		1.2			

				Boring No. HP-III-59	Page 3 of 4
DEPTH	SAMPLE INTERVAL	PID (PPM)	Recovery	Lithology	SAMPLE DESCRIPTION SAND[1], silty[2], fine to medium grained[3], brownish grey[4], loose[5], wet[6]
50		2.8			Sand, med. To fine grained, well sorted, some shell fragments <10%. Gray.
52		6.4			
54		3.4			
56		3.2	120/120		Sand fine grained, trace clay. Gray
58		1.6			Sand becomes coarser. becomes, sand, med. to fine grained, poorly sorted. Gray.
60		3.7			
62		6.4			
64		3.2			Sand, med. To fine grained, poorly sorted, pea gravel, rounded 1-3 mm, <10%, trace clay. Gray.
66		3.7	120/120		Sand, med. To fine grained, poorly sorted, pea gravel, rounded 1-3mm, <10%, trace clay. There were some sandy clay clumps 1-inch diameter. Gray.
68		0.1			Sand, med. To fine grained, sorted, trace shell fragments, occasional pea gravel rounded 1-3 mm. Gray.
70		0.0			
72		0.0			72-72.5 sand, fine grained, well sorted, trace clay. Gray.

				Boring No. HP-III-59	Page 4 of 4
DEPTH	SAMPLE INTERVAL	PID (PPM)	Recovery	Lithology	SAMPLE DESCRIPTION SAND[1], silty[2], fine to medium grained[3], brownish grey[4], loose[5], wet[6]
74		0 0			Sand, fine grained well sorted. Little clay, gray.
76		0.2	120/120		Sand, med. To fine grained, sub angular, occasional pea gravel 1-3mm. Gray.
78		0.6			Sand, med. To fine grained well sorted, sub rounded, occasional pea gravel rounded, 1-3mm, trace clay. Gray.
80		0.6			
82		2.4			
84		2.1			
86		2.4			
88	89-99	4.8			Changes to lighter gray densely packed sand, medium to fine grained occasional pea gravel, rounded 1-3mm, clay content is increasing.
90		13.2	154/168		90-94.7 sand med-fine grained, well sorted sub-rounded, trace clay.
92		4.9			
94		5.7			Clay, very stiff, dry, gray.
96		1.6			96.7-97.4 Sand, fine grained, some clay. Gray.
98		0.8			Clay, sand fine grained <10%, stiff, gray.
100		2.0	96/120		Refusal at 99 feet. Boring terminated.

anteagroup	Boring No. HP-III-60		Page 1 of 4
			Drilling Method:
	Contractor: Boart Longyear		Roto sonic
			Drill Rig: PS Sonic
Project Name and Location: **Ashland/Pinova Brunswick, GA**	Drill Crew: Tommy Ardito		
	Date Started: 1/30/2013		Date Finished: 1/30/2013
	Logged by: Hartford Hight		Protective cover: N/A

Well Construction Information:	N/A			
1rst Packer Interval (feet bgs):	20 - 26	Screen Set:	N/A	Water level while drilling (feet bgs):
2nd Packer Interval (feet bgs):	50 - 56	Riser:	N/A	Not Measured
3rd Packer Interval (feet bgs):	75 - 86	Seal type:	N/A	Water level at completion (feet bgs):
Grout Interval (feet bgs):	N/A	Filter pack:	N/A	Boring Abandoned After Drilling

DEPTH	SAMPLE INTERVAL	PID (PPM)	Recovery inches	Lithology	Sample Description / Depths are in Feet Below Ground Surface SAND[1], silty[2], fine to medium grained[3], brownish grey[4], loose[5], wet[6]
2					No recovery 0-6.
4					
6		12.0	0/60		Organic silt, roots, trace clay, very fine grained sand, strong sulfur odor, black.
8		20.8			Becomes silty sandy clay, fine grained. Strong sulfur odor. Gray/black.
10		16.0			
12		11.9			Clay, sand, fine grained, some silt. Gray/green
14		6.7			
16		3.1	106/120		
18		0.8			Sandy clay, fine grained, shell fragments <1mm, 15%, sorted, Gray.
20	20-26	0.6			Becomes clayey sand, fine grained, shell fragments <1mm. Gray.
22		0.8			22-26 drill bit blocked off, no recovery.
24					

			Boring No. HP-III-60		Page 2 of 4
DEPTH	SAMPLE INTERVAL	PID (PPM)	Recovery	Lithology	SAMPLE DESCRIPTION SAND[1], silty[2], fine to medium grained[3], brownish grey[4], loose[5], wet[6]
26			62/120		
28		3.7			Sandy clay, med. To fine grained, shell fragments <1mm, angular, 25%. soft. Gray.
30		4.0			Becomes sand, fine grained, sorted, clay 30%, shell fragments <1mm, 15%.
32		3.9			
34		4.4			
36		3.9	107/120		Sandy clay, med. To fine grained, poorly sorted, abundant shells whole shells to fragments >4mm to <1mm, stiff. Gray.
38		8.4			Sand, poorly sorted, coarse to fine grained, abundant gravel 1-4 inch dia., some clay<105, trace shell fragments. Gray.
40		6.6			
42		6.1			
44					Bit blocked off by rock fragment, no recovery.
46		1.5	60/120		Clayey sand, med. To fine grained, few rocks 2-4 inch dia., trace clay. Gray.
48		1.8			

				Boring No. HP-III-60	Page 3 of 4
DEPTH	SAMPLE INTERVAL	PID (PPM)	Recovery	Lithology	SAMPLE DESCRIPTION SAND[1], silty[2], fine to medium grained[3], brownish grey[4], loose[5], wet[6]
50	50-56	3.1			Sand, med. To fine grained, sorted, little to no clay. Gray.
52		4.8			
54		4.7			
56		5.3	120/120		
58		7.0			Sand med. To fine grained, some pea gravel <3mm, rounded, trace clay. Gray.
60		6.8			sand med. To fine grained, abundant gravel 1-inch dia., rounded. Some clay. Light gray.
62		11.4			sand, med. To fine grained, rock fragments >2 inch dia., angular, trace clay Black/gray.
64		7.2			
66		7.7	120/120		Sand, med. To fine grained well sorted. Little to no clay. Gray.
68		11.9			Sand, med. To fine grained, some pea gravel rounded, trace clay.
70		35.4			
72		38.6			

				Boring No. HP-III-60	Page 4 of 4
DEPTH	SAMPLE INTERVAL	PID (PPM)	Recovery	Lithology	SAMPLE DESCRIPTION SAND[1], silty[2], fine to medium grained[3], brownish grey[4], loose[5], wet[6]
74		44.7			
76	75-86	49.7			76-84, finished run to 76 ft. rod dropped to 84 ft. continued run to 86 ft.
78					No recovery 76-84 ft. Driller said it was very soft material not a void.
80					
82					
84					
86		17.2	131/240		Sand med. To fine grained, sub rounded, well sorted. Little to no clay. Gray.
88	89-99	19.7			Sand, med. To coarse grained, some gravel, angular, some clay.
90		49.2			Sand, med. To fine grained, sorted, some pea gravel, rounded, 15%, no clay.
92		21.2			
94		16.9			
96		17.4			Clay, trace sand, stiff, bottom of run. Gray.
98		19.2			No recovery 96-97 feet. Refusal 97 feet.
100			140/144		

Project Name	Monitoring Well Construction Log	Well Number
Ashland Brunswick Georgia		**MW-55S**

Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Geoprobe 8140LS**	Northing **424924.42** Easting **873353.35** Well Screen Interval **75-85 ft.**	Ground Surface Elevation **5.30** Top of Well Casing Elevation **8.07**
GA EPD Number **GAD004065520**	Drilling Method **Roto Sonic**	Well Screen Slot Size **0.01 inch**	Total Well Depth **25 ft.**
Logged By **H. Hight** Approved By **C. Weaver**	Date Drilling Started **12/2/13**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **85 ft.** Boring Dia. **6 in.**
Driller Name **B. Moss** Project Number **WBS2014B2**	Date Drilling Completed **12/3/13**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

LITHOLOGY **SAMPLING DATA**

Elevation	Depth	Graphic Log	Visual Description	USCS	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
0	0		(0.0- 5.0) SANDY SILT: Black sandy silt, strong sulfur odor 0 - 5 Post-hole	SM	0-5	NA		Protective Cover: Stick Up/Well Pad: 3'x3' Cement Grout: 1-6' Well Casing: 0-10' Fine Sand: 6-8' Well Diameter: 2" #2 Silica Sand: 8-25' Well Screen: 10-25'	0
	5		(5.0- 6.5) SILTY SAND: Dark gray silty sand, fine grained, roots, shells, strong sulfur odor	SM	5-10				5
			(6.5- 10.5) SANDY CLAY: Dark gray silty sandy clay, fine grained	SC					
	10		(10.5- 14.0) CLAYEY SAND: Gray fine grained sand, silt, clay	SC	10-15	12.5			10
-10	15		(14.0- 16.0) SAND: Gray sand, poorly sorted, shell fragments angular 1-4 mm	SP	15-20	2.8			15
			(16.0- 19.5) SAND: Gray sand, medium-fine grained, some large quartz gravel, rounded 1-4 mm	SP					
	20		(19.5- 20.3) SANDY CLAY: Gray sandy clay, fine grained, stiff, saturated	CL	20-25	1.4			20
			(20.3- 25.0) CLAYEY SAND: Gray sand, clay, medium-fine grained	SC					
	25								25

Sample descriptions were obtained from the boring log for MW-55D.

▽ Water level in completed well

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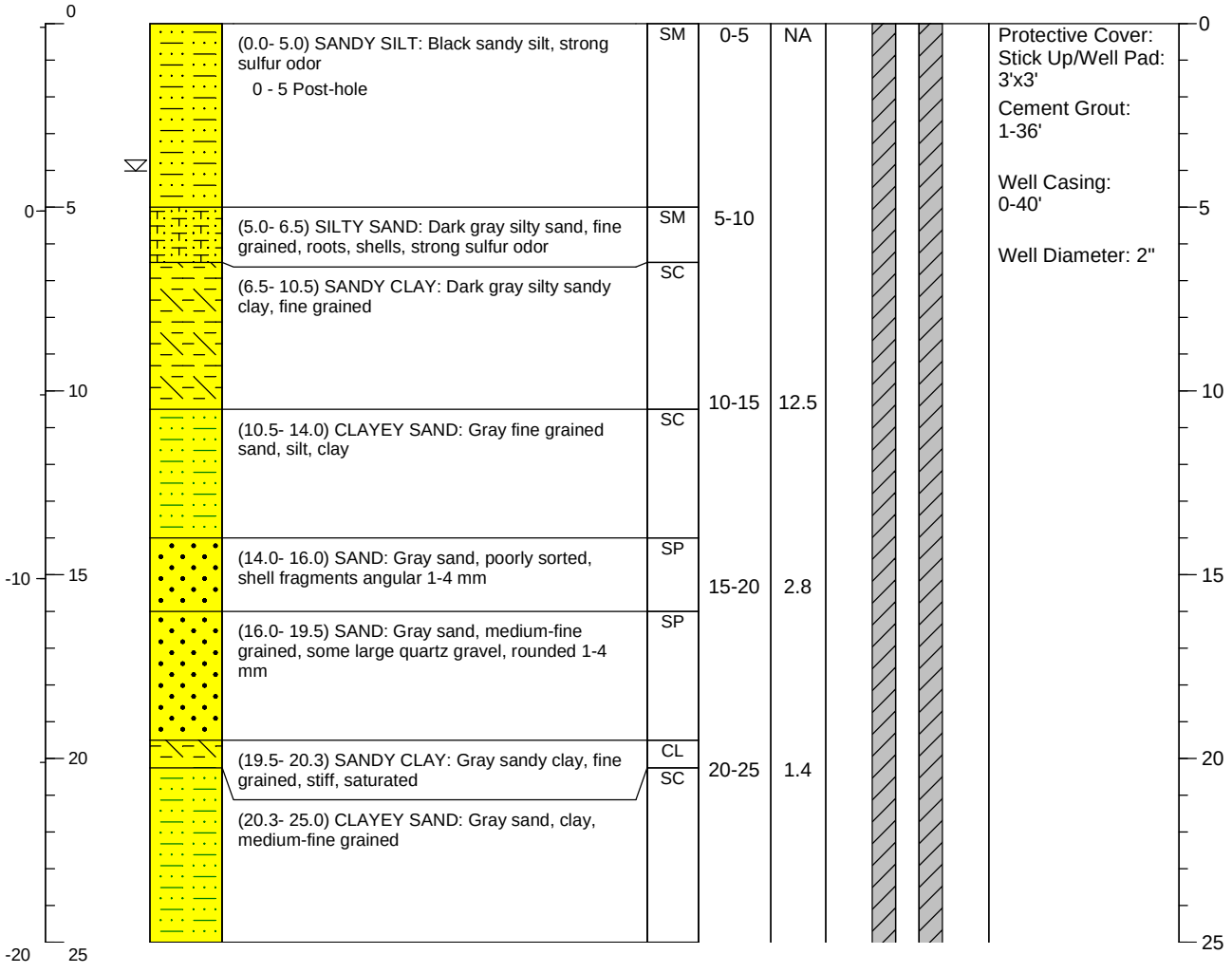
Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**MW-55I**
Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Geoprobe 8140LS**	Northing **424922.79** Easting **873363.21** Well Screen Interval **40-55 ft.**	Ground Surface Elevation **5.10** Top of Well Casing Elevation **7.92**
GA EPD Number **GAD004065520**	Drilling Method **Roto Sonic**	Well Screen Slot Size **0.01 inch**	Total Well Depth **55 ft.**
Logged By **H. Hight** Approved By **C. Weaver**	Date Drilling Started **12/2/13**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **55 ft.** Boring Dia. **6 in.**
Driller Name **B. Moss** Project Number **WBS2014B2**	Date Drilling Completed **12/3/13**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

LITHOLOGY **SAMPLING DATA**



Sample descriptions were obtained from the boring log for MW-55D.

Water level in completed well

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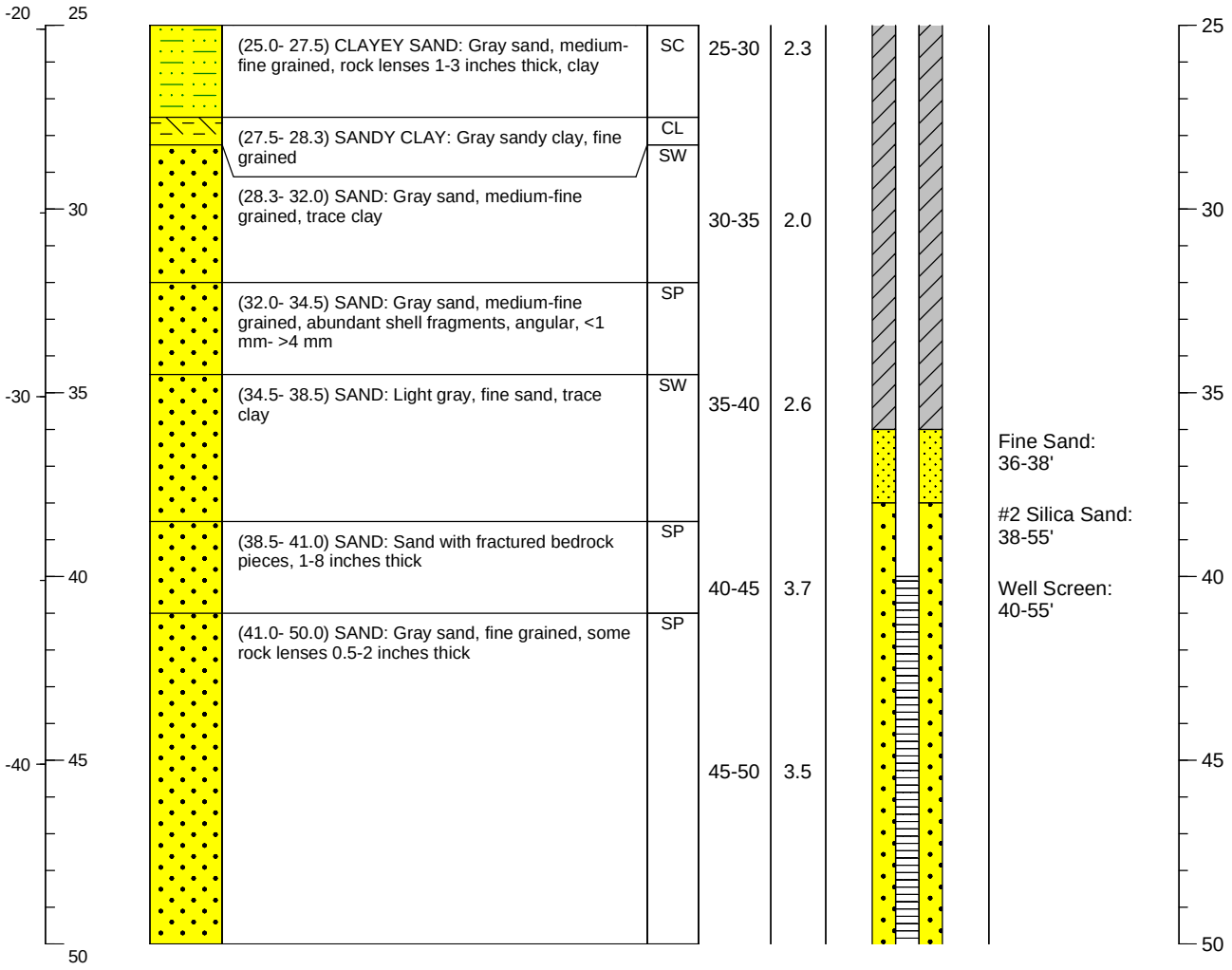
Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**MW-55I**
Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Geoprobe 8140LS**	Northing **424922.79** Easting **873363.21** Well Screen Interval **40-55 ft.**	Ground Surface Elevation **5.10** Top of Well Casing Elevation **7.92**
GA EPD Number **GAD004065520**	Drilling Method **Roto Sonic**	Well Screen Slot Size **0.01 inch**	Total Well Depth **55 ft.**
Logged By **H. Hight** Approved By **C. Weaver**	Date Drilling Started **12/2/13**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **55 ft.** Boring Dia. **6 in.**
Driller Name **B. Moss** Project Number **WBS2014B2**	Date Drilling Completed **12/3/13**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

LITHOLOGY **SAMPLING DATA**



Sample descriptions were obtained from the boring log for MW-55D.

▽ Water level in completed well

Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**MW-55I**
Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Geoprobe 8140LS**	Northing **424922.79** Easting **873363.21** Well Screen Interval **40-55 ft.**	Ground Surface Elevation **5.10** Top of Well Casing Elevation **7.92**
GA EPD Number **GAD004065520**	Drilling Method **Roto Sonic**	Well Screen Slot Size **0.01 inch**	Total Well Depth **55 ft.**
Logged By **H. Hight** Approved By **C. Weaver**	Date Drilling Started **12/2/13**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **55 ft.** Boring Dia. **6 in.**
Driller Name **B. Moss** Project Number **WBS2014B2**	Date Drilling Completed **12/3/13**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

LITHOLOGY **SAMPLING DATA**

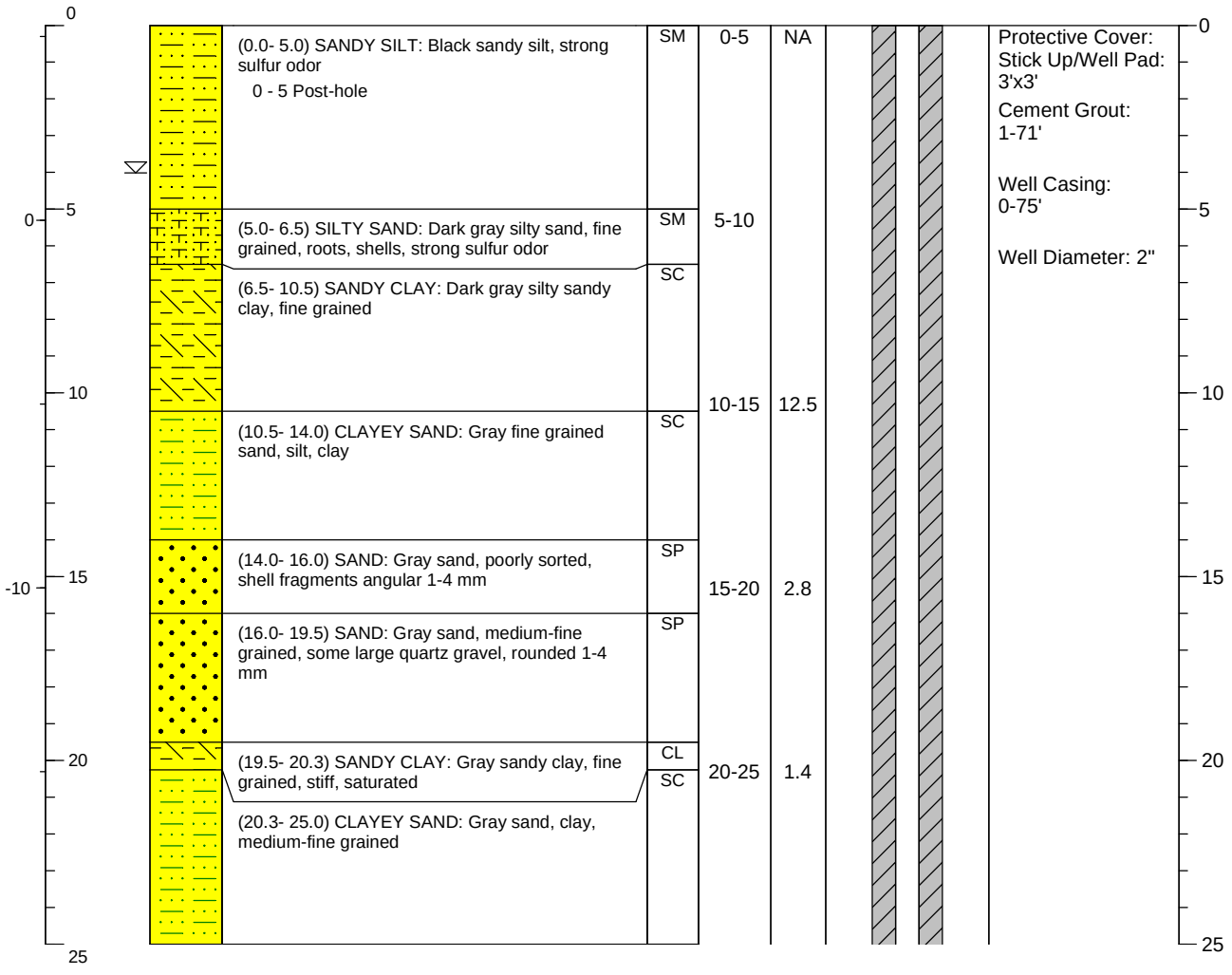
Elevation	Depth	Graphic Log	Visual Description	USCS	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
	50		(50.0- 55.0) SAND: Gray sand, medium-fine grained, trace silt, some quartz gravel, subrounded 1-6 mm	SP	50-55	3.5			50
-50	55		Boring terminated at 55 ft bgs.					Well set at 55 ft. bgs. with 15 ft of screen.	55
	60								60
-60	65								65
	70								70
	75								75

Sample descriptions were obtained from the boring log for MW-55D.

▽ Water level in completed well

Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**MW-55D**
Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Geoprobe 8140LS**	Northing **424923.59** Easting **873358.3** Well Screen Interval **75-85 ft.**	Ground Surface Elevation **5.30** Top of Well Casing Elevation **7.81**
GA EPD Number **GAD004065520**	Drilling Method **Roto Sonic**	Well Screen Slot Size **0.01 inch**	Total Well Depth **85 ft.**
Logged By **H. Hight** Approved By **C. Weaver**	Date Drilling Started **12/2/13**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **85 ft.** Boring Dia. **6 in.**
Driller Name **B. Moss** Project Number **WBS2014B2**	Date Drilling Completed **12/3/13**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

LITHOLOGY **SAMPLING DATA**



▽ Water level in completed well

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Project Name	Monitoring Well Construction Log	Well Number
Ashland Brunswick Georgia		**MW-55D**

Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Geoprobe 8140LS**	Northing **424923.59** Easting **873358.3** Well Screen Interval **75-85 ft.**	Ground Surface Elevation **5.30** Top of Well Casing Elevation **7.81**
GA EPD Number **GAD004065520**	Drilling Method **Roto Sonic**	Well Screen Slot Size **0.01 inch**	Total Well Depth **85 ft.**
Logged By **H. Hight** Approved By **C. Weaver**	Date Drilling Started **12/2/13**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **85 ft.** Boring Dia. **6 in.**
Driller Name **B. Moss** Project Number **WBS2014B2**	Date Drilling Completed **12/3/13**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

LITHOLOGY **SAMPLING DATA**

Elevation	Depth	Graphic Log	Visual Description	USCS	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
-20	25		(25.0- 27.5) CLAYEY SAND: Gray sand, medium-fine grained, rock lenses 1-3 inches thick, clay	SC	25-30	2.3			25
			(27.5- 28.3) SANDY CLAY: Gray sandy clay, fine grained	CL					
	30		(28.3- 32.0) SAND: Gray sand, medium-fine grained, trace clay	SW	30-35	2.0			30
			(32.0- 34.5) SAND: Gray sand, medium-fine grained, abundant shell fragments, angular, <1 mm- >4 mm	SP					
-30	35		(34.5- 38.5) SAND: Light gray, fine sand, trace clay	SW	35-40	2.6			35
			(38.5- 41.0) SAND: Sand with fractured bedrock pieces, 1-8 inches thick	SP					
	40				40-45	3.7			40
			(41.0- 50.0) SAND: Gray sand, fine grained, some rock lenses 0.5-2 inches thick	SP					
-40	45				45-50	3.5			45
	50								50

▽ Water level in completed well

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Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**MW-55D**
Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Geoprobe 8140LS**	Northing **424923.59** Easting **873358.3** Well Screen Interval **75-85 ft.**	Ground Surface Elevation **5.30** Top of Well Casing Elevation **7.81**
GA EPD Number **GAD004065520**	Drilling Method **Roto Sonic**	Well Screen Slot Size **0.01 inch**	Total Well Depth **85 ft.**
Logged By **H. Hight** Approved By **C. Weaver**	Date Drilling Started **12/2/13**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **85 ft.** Boring Dia. **6 in.**
Driller Name **B. Moss** Project Number **WBS2014B2**	Date Drilling Completed **12/3/13**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

LITHOLOGY **SAMPLING DATA**

Elevation	Depth	Graphic Log	Visual Description	USCS	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
	50								50
-50	55		(50.0- 60.0) SAND: Gray sand, medium-fine grained, trace silt, some quartz gravel, subrounded 1-6 mm same as above, with shell fragments (had trouble with having sands coming into drill casing.)	SP	50-55 55-60	3.5 3.4			55
	60		(60.0- 70.0) SAND: Light gray sand, medium-fine grained, well sorted, subrounded quartz grains	SW	60-65	4.8			60
-60	65				65-70	5.9			65
	70		(70.0- 74.5) SAND: Gray sand, medium-fine grained, moderate odor like degraded paint thinner	SW	70-75	17.7		Fine Sand: 71-73' #2 Silica Sand: 73-85'	70
	75			SC					75

▽ Water level in completed well

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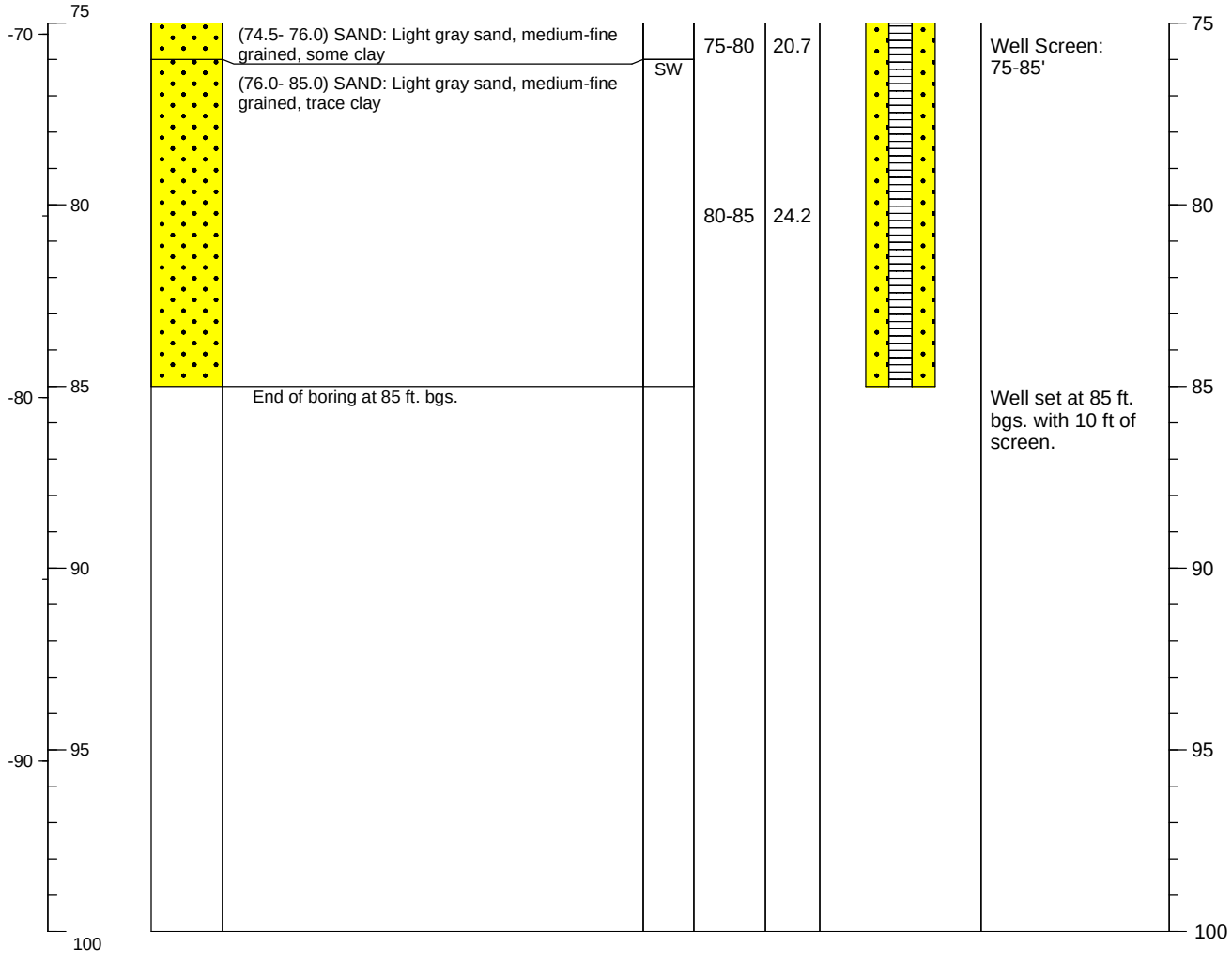
Project Name	Monitoring Well Construction Log	Well Number
Ashland Brunswick Georgia		**MW-55D**

Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Geoprobe 8140LS**	Northing **424923.59** Easting **873358.3** Well Screen Interval **75-85 ft.**	Ground Surface Elevation **5.30** Top of Well Casing Elevation **7.81**
GA EPD Number **GAD004065520**	Drilling Method **Roto Sonic**	Well Screen Slot Size **0.01 inch**	Total Well Depth **85 ft.**
Logged By **H. Hight** Approved By **C. Weaver**	Date Drilling Started **12/2/13**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **85 ft.** Boring Dia. **6 in.**
Driller Name **B. Moss** Project Number **WBS2014B2**	Date Drilling Completed **12/3/13**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

LITHOLOGY **SAMPLING DATA**



▽ Water level in completed well

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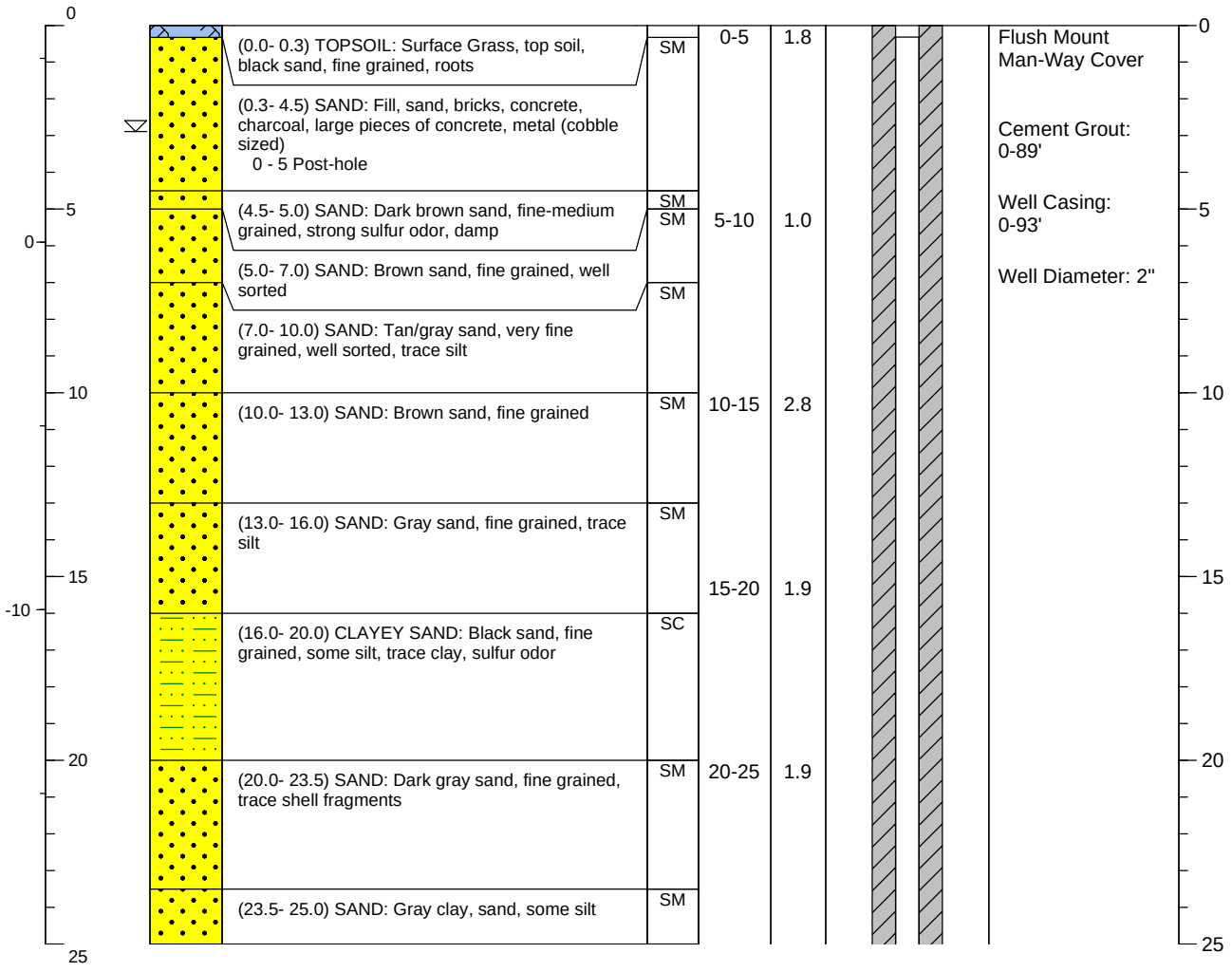
Project Name	Monitoring Well Construction Log	Well Number
Ashland Brunswick Georgia		**MW-56D**

Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Roto Sonic**	Northing **425399.45** Easting **873177.19** Well Screen Interval **93-103 ft.**	Ground Surface Elevation **5.90** Top of Well Casing Elevation **5.58**
GA EPD Number **GAD004065520**	Drilling Method **Roto Sonic**	Well Screen Slot Size **0.01 inch**	Total Well Depth **103 ft.**
Logged By **H. Hight** Approved By **C. Weaver**	Date Drilling Started **7/8/14**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **105 ft.** Boring Dia. **6 in.**
Driller Name **A. Hak** Project Number **WBS2014B2**	Date Drilling Completed **7/8/14**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**



Water level in completed well

Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**MW-56D**
Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Roto Sonic**	Northing **425399.45** Easting **873177.19** Well Screen Interval **93-103 ft.**	Ground Surface Elevation **5.90** Top of Well Casing Elevation **5.58**
GA EPD Number **GAD004065520**	Drilling Method **Roto Sonic**	Well Screen Slot Size **0.01 inch**	Total Well Depth **103 ft.**
Logged By **H. Hight** Approved By **C. Weaver**	Date Drilling Started **7/8/14**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **105 ft.** Boring Dia. **6 in.**
Driller Name **A. Hak** Project Number **WBS2014B2**	Date Drilling Completed **7/8/14**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

LITHOLOGY **SAMPLING DATA**

Elevation	Depth	Graphic Log	Visual Description	USCS	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
-20	25		(25.0- 30.8) SANDY CLAY: Gray clay, sand, silt	CL	25-30	2.0			25
	30		(30.8- 33.0) SAND: Gray sand, fine grained	SM	30-35	2.7			30
			(33.0- 34.0) SAND: Gray sand medium-fine grained, some shell fragments (30%), angular	SM					
-30	35		(34.0- 36.0) CLAYEY SAND: Gray sand, medium-fine grained, some shell fragments, some clay	SC	35-40	1.8			35
			(36.0- 36.3) ROCK: 3-inches of rock	SM					
			(36.3- 40.0) SAND: Gray sand, medium-fine grained, few pieces of rock, gravel size.						
	40		(40.0- 52.0) SAND: Gray sand, fine grained	SM	40-45	0.9			40
-40	45				45-50	0.4			45
	50								50

▽ Water level in completed well

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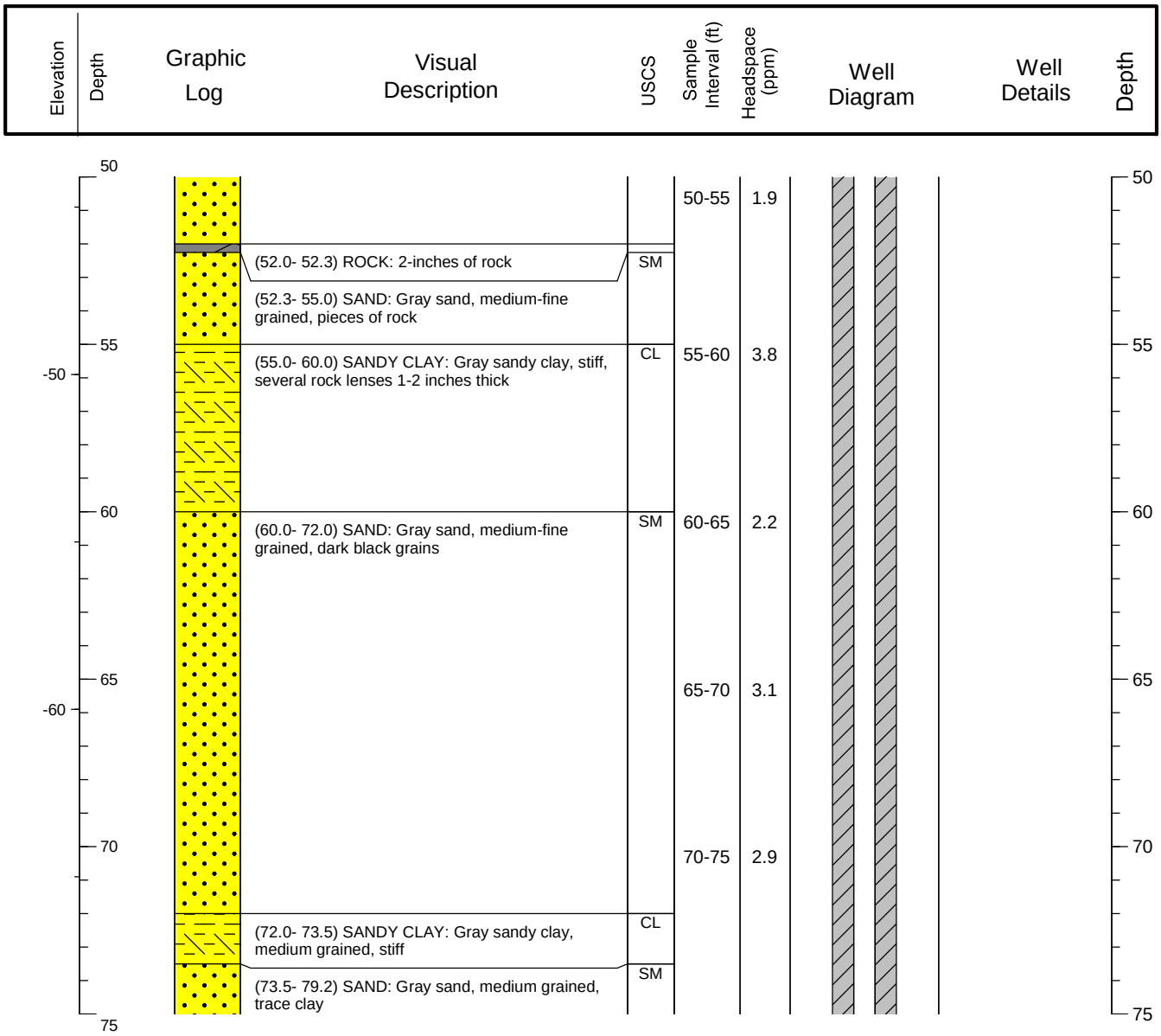
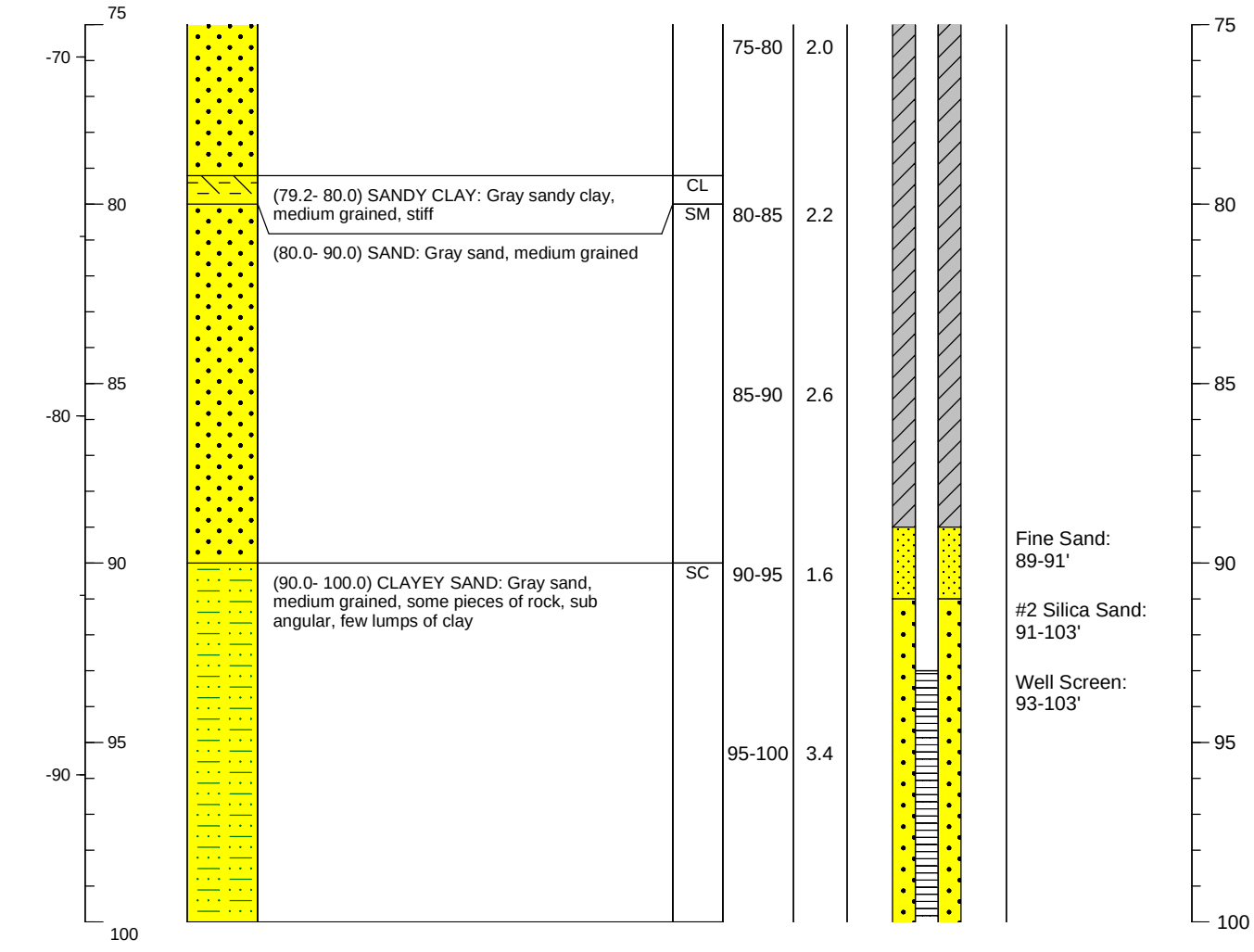
Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**MW-56D**
Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Roto Sonic**	Northing **425399.45** Easting **873177.19** Well Screen Interval **93-103 ft.**	Ground Surface Elevation **5.90** Top of Well Casing Elevation **5.58**
GA EPD Number **GAD004065520**	Drilling Method **Roto Sonic**	Well Screen Slot Size **0.01 inch**	Total Well Depth **103 ft.**
Logged By **H. Hight** Approved By **C. Weaver**	Date Drilling Started **7/8/14**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **105 ft.** Boring Dia. **6 in.**
Driller Name **A. Hak** Project Number **WBS2014B2**	Date Drilling Completed **7/8/14**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**



Water level in completed well

Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**MW-56D**
Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Roto Sonic**	Northing **425399.45** Easting **873177.19** Well Screen Interval **93-103 ft.**	Ground Surface Elevation **5.90** Top of Well Casing Elevation **5.58**
GA EPD Number **GAD004065520**	Drilling Method **Roto Sonic**	Well Screen Slot Size **0.01 inch**	Total Well Depth **103 ft.**
Logged By **H. Hight** Approved By **C. Weaver**	Date Drilling Started **7/8/14**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **105 ft.** Boring Dia. **6 in.**
Driller Name **A. Hak** Project Number **WBS2014B2**	Date Drilling Completed **7/8/14**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

LITHOLOGY **SAMPLING DATA**



▽ Water level in completed well

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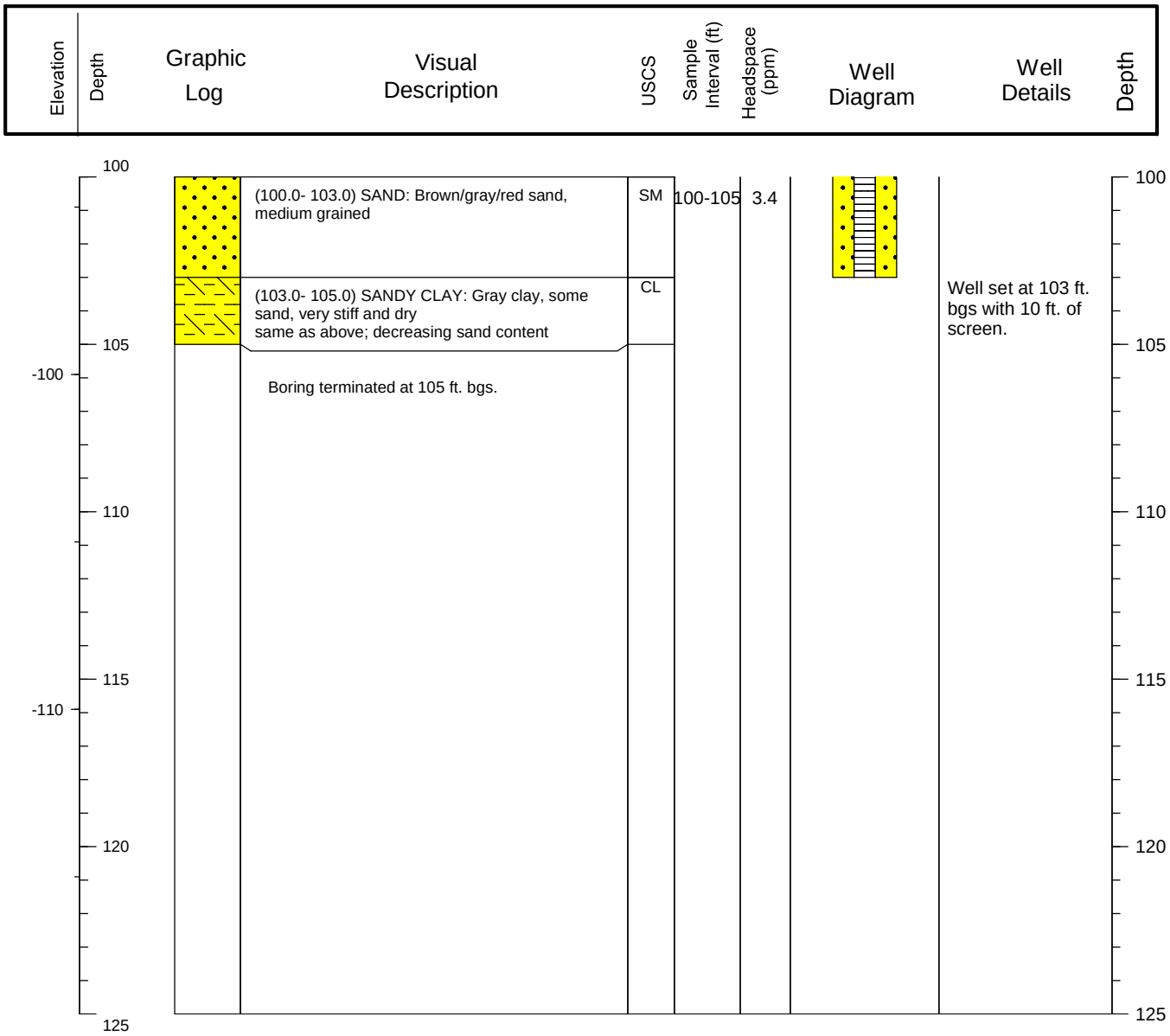
Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**MW-56D**
Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Roto Sonic**	Northing **425399.45** Easting **873177.19** Well Screen Interval **93-103 ft.**	Ground Surface Elevation **5.90** Top of Well Casing Elevation **5.58**
GA EPD Number **GAD004065520**	Drilling Method **Roto Sonic**	Well Screen Slot Size **0.01 inch**	Total Well Depth **103 ft.**
Logged By **H. Hight** Approved By **C. Weaver**	Date Drilling Started **7/8/14**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **105 ft.** Boring Dia. **6 in.**
Driller Name **A. Hak** Project Number **WBS2014B2**	Date Drilling Completed **7/8/14**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**



▽ Water level in completed well

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Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**MW-57D**
Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Roto Sonic**	Northing **425877.55** Easting **872717.34** Well Screen Interval **82-92 ft.**	Ground Surface Elevation **7.30** Top of Well Casing Elevation **6.90**
GA EPD Number **GAD004065520**	Drilling Method **Roto Sonic**	Well Screen Slot Size **0.01 inch**	Total Well Depth **92 ft.**
Logged By **H. Hight** Approved By **C. Weaver**	Date Drilling Started **7/9/14**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **95 ft.** Boring Dia. **7/8/14**
Driller Name **A. Hak** Project Number **WBS2014B2**	Date Drilling Completed **7/9/14**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

LITHOLOGY **SAMPLING DATA**

Elevation	Depth	Graphic Log	Visual Description	USCS	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
0	0		(0.0- 1.0) TOPSOIL: Surface grass, 2 inches top soil, black sand, fine grained, roots	SM	0-5	2.1		Flush Mounted Man-Way Cover	0
			(1.0- 3.8) SAND: Black sand, fine grained, trace silt 0 - 5 Post-hole					Cement Grout: 0-78'	
	5		(3.8- 5.0) SILTY SAND: Black/brown sand fine grained, moist	SM				Well Casing: 0-82'	5
0			(5.0- 8.0) SAND: Brown sand, fine grained, saturated	SM	5-10	2.1		Well Diameter: 2"	
			(8.0- 9.0) SAND: Dark brown sand fine grained, trace silt	SM					
	10		(9.0- 10.0) SAND: Brown sand, fine grained	SM	10-15	4.1			10
			(10.0- 15.0) SAND: Light brown/tan sand, fine grained.						
	15		(15.0- 20.0) SAND: Dark brown/gray sand fine grained, trace silt, sulfur odor	SM	15-20	1.9			15
-10	20		(20.0- 24.0) SAND: Gray/brown fine sand	SM	20-25	0.7			20
	25		(24.0- 25.0) SANDY CLAY: Gray sandy clay, fine	CL					25

▽ Water level in completed well

anteagroup INOGEN

Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**MW-57D**
Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Roto Sonic**	Northing **425877.55** Easting **872717.34** Well Screen Interval **82-92 ft.**	Ground Surface Elevation **7.30** Top of Well Casing Elevation **6.90**
GA EPD Number **GAD004065520**	Drilling Method **Roto Sonic**	Well Screen Slot Size **0.01 inch**	Total Well Depth **92 ft.**
Logged By **H. Hight** Approved By **C. Weaver**	Date Drilling Started **7/9/14**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **95 ft.** Boring Dia. **7/8/14**
Driller Name **A. Hak** Project Number **WBS2014B2**	Date Drilling Completed **7/9/14**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

LITHOLOGY **SAMPLING DATA**

Elevation	Depth	Graphic Log	Visual Description	USCS	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
	25		grained						25
			(25.0- 28.5) SANDY CLAY: Dark gray sandy clay, fine grained, some silt	CL	25-30	0.2			
-20			(28.5- 30.0) SANDY CLAY: Dark gray clay, fine sand, stiff	CL					
	30		(30.0- 31.0) CLAYEY SAND: Gray fine sand, some clay	SC	30-35	1.0			30
			(31.0- 33.0) SANDY CLAY: Gray sandy clay, some silt	CL					
			(33.0- 36.0) CLAYEY SAND: Gray sandy clay, fine grained	SC					
	35				35-40	0.4			35
-30			(36.0- 38.0) CLAYEY SAND: Gray fine sand, some clay	SC					
			(38.0- 40.0) SAND: Gray fine sand	SM					
	40		(40.0- 42.0) CLAYEY SAND: Gray fine-coarse sand, clay, angular gravel	SC	40-45	1.6			40
			(42.0- 43.0) CLAYEY SAND: Dark gray clay, some fine sand, stiff	SC					
			(43.0- 45.0) CLAYEY SAND: Dark gray fine sand, clay, moderately stiff	SC					
	45		(45.0- 50.0) CLAYEY SAND: Gray medium-fine sand, some clay	SC	45-50	0.7			45
-40									
	50								50

▽ Water level in completed well

anteagroup INOGEN

Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**MW-57D**
Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Roto Sonic**	Northing **425877.55** Easting **872717.34** Well Screen Interval **82-92 ft.**	Ground Surface Elevation **7.30** Top of Well Casing Elevation **6.90**
GA EPD Number **GAD004065520**	Drilling Method **Roto Sonic**	Well Screen Slot Size **0.01 inch**	Total Well Depth **92 ft.**
Logged By **H. Hight** Approved By **C. Weaver**	Date Drilling Started **7/9/14**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **95 ft.** Boring Dia. **7/8/14**
Driller Name **A. Hak** Project Number **WBS2014B2**	Date Drilling Completed **7/9/14**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

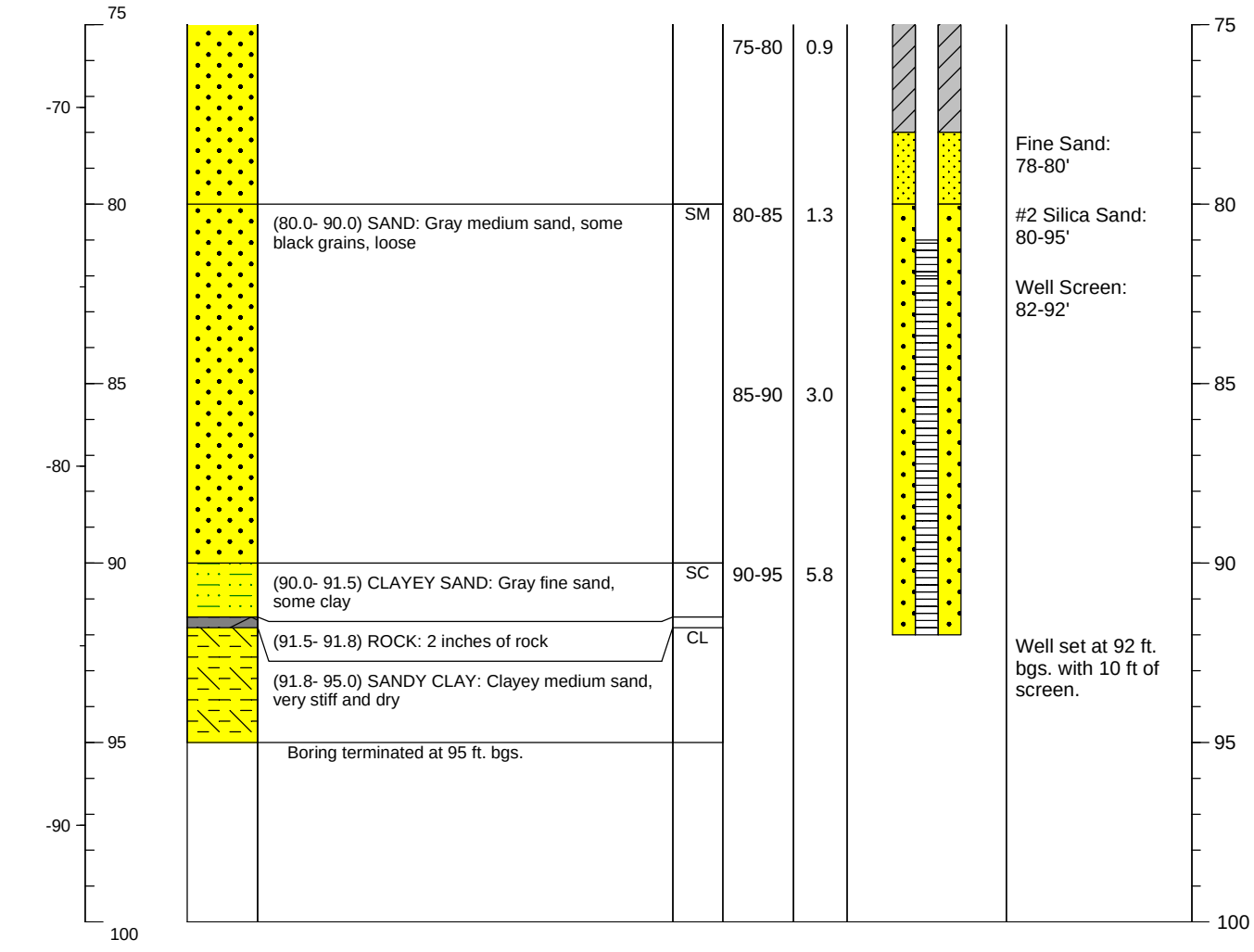
LITHOLOGY **SAMPLING DATA**

Elevation	Depth	Graphic Log	Visual Description	USCS	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
	50		(50.0- 50.5) SANDY CLAY: Gray, sandy clay, fine grained, stiff	CL	50-55	1.8			50
			(50.5- 54.0) SAND: Gray fine sand, trace clay	SM					
	55		(54.0- 55.0) CLAYEY SAND: Gray clayey medium-fine sand, very stiff	SC					55
-50			(55.0- 59.0) CLAYEY SAND: Gray clayey medium-coarse sand, rounded grains, very stiff	SC	55-60	0.9			
	60		(59.0- 60.0) SANDY CLAY: Gray sandy clay, medium grained, stiff	CL					60
			(60.0- 65.0) SAND: Gray fine sand, trace clay	SM	60-65	1.0			
	65		(65.0- 80.0) SAND: Gray medium sand, some angular shell fragments (<1 mm diam.), loose	SM	65-70	2.4			65
-60									
	70				70-75	0.4			70
	75								75

▽ Water level in completed well

anteagroup INOGEN

Project Name	Monitoring Well Construction Log		Well Number
Ashland Brunswick Georgia			**MW-57D**
Address **2801 Cook Street** **Brunswick Georgia**	Drilling Contractor/License **Groundwater Protection** Drilling Equipment **Roto Sonic**	Northing **425877.55** Easting **872717.34** Well Screen Interval **82-92 ft.**	Ground Surface Elevation **7.30** Top of Well Casing Elevation **6.90**
GA EPD Number **GAD004065520**	Drilling Method **Roto Sonic**	Well Screen Slot Size **0.01 inch**	Total Well Depth **92 ft.**
Logged By **H. Hight** Approved By **C. Weaver**	Date Drilling Started **7/9/14**	Well Casing Diameter and Type **2 in. SCH 40 PVC**	Boring Depth **95 ft.** Boring Dia. **7/8/14**
Driller Name **A. Hak** Project Number **WBS2014B2**	Date Drilling Completed **7/9/14**	Sampling Method **Continuous Cores**	Headspace Monitoring Device **PID**

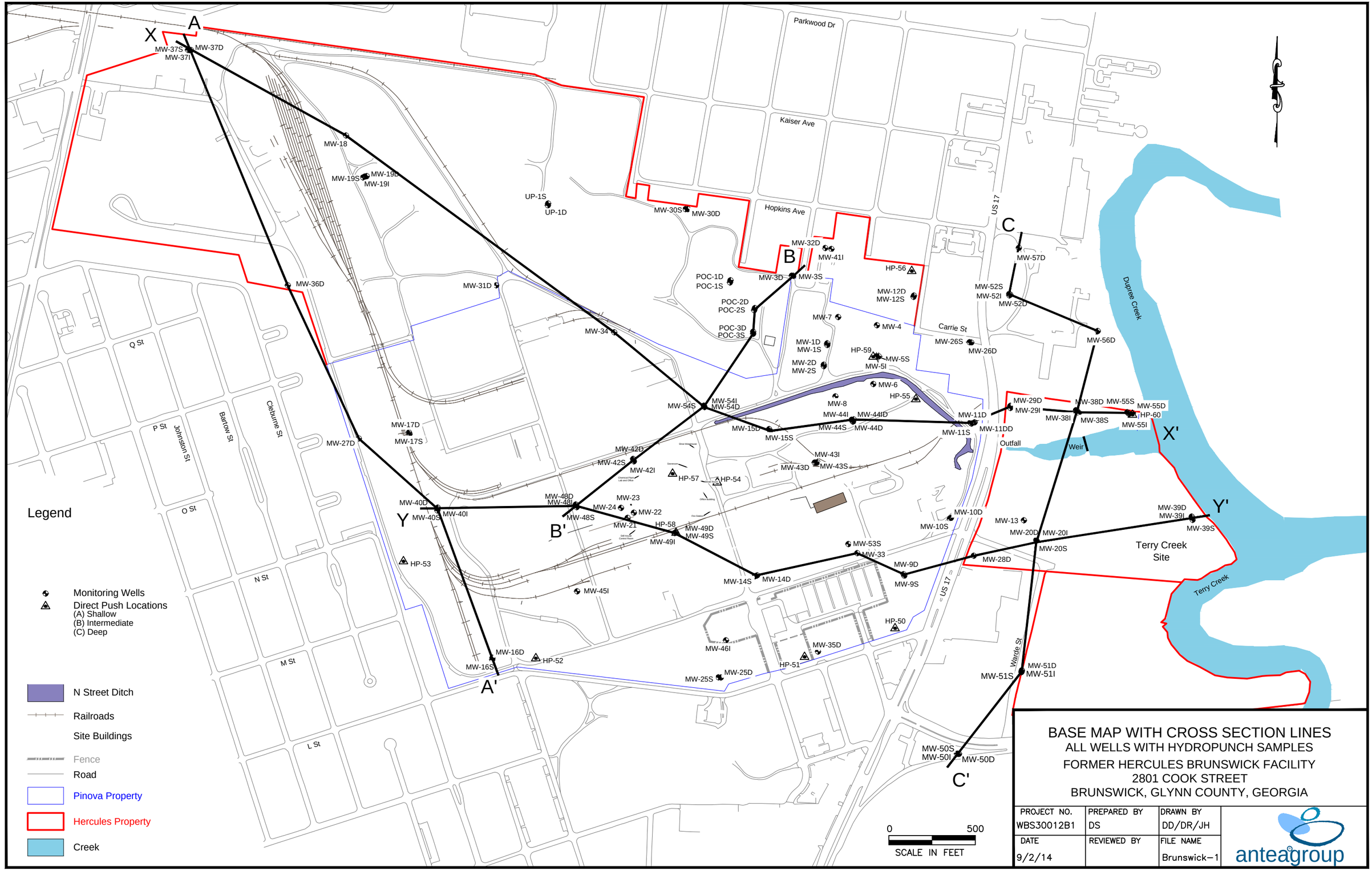


Water level in completed well

anteagroup INOGEN

Appendix C

Cross-Section Transects and Cross-Sections



BASE MAP WITH CROSS SECTION LINES

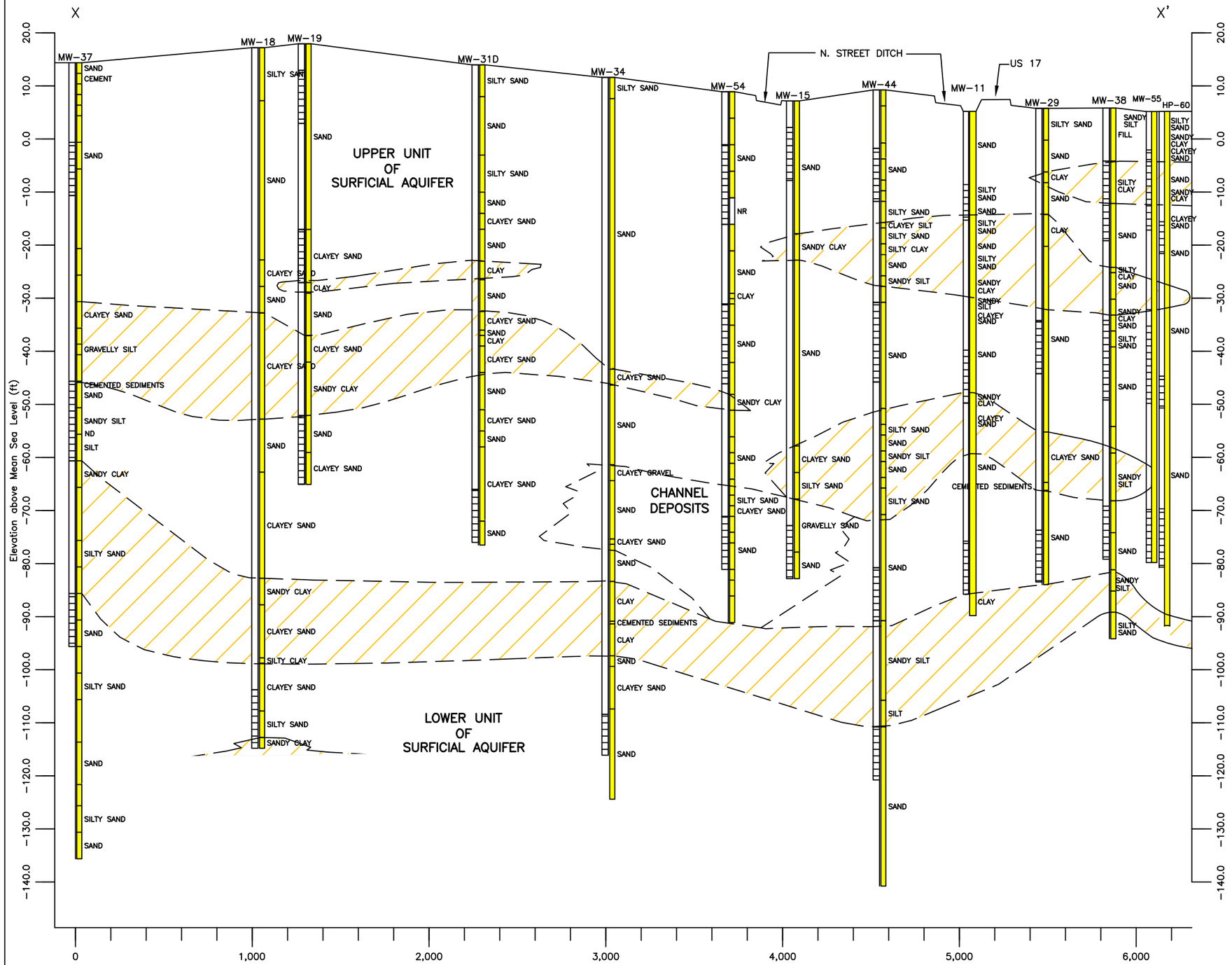
ALL WELLS WITH HYDROPUNCH SAMPLES

FORMER HERCULES BRUNSWICK FACILITY
2801 COOK STREET
BRUNSWICK, GLYNN COUNTY, GEORGIA

PROJECT NO.	PREPARED BY	DRAWN BY
WBS30012B1	DS	DD/DR/JH
DATE	REVIEWED BY	FILE NAME
9/2/14		Brunswick-1

anteagroup

Cross–Section X–X'



LEGEND

MW–34 MONITORING WELL NAME

CASING / SCREEN — SAND / CLAY / SAND — LITHOLOGIC DESCRIPTIONS
NR = NO RECOVERY

LOW PERMEABILITY SEDIMENTS

APPROXIMATE STRATIGRAPHIC BOUNDARY

0 600
SCALE IN FEET
20

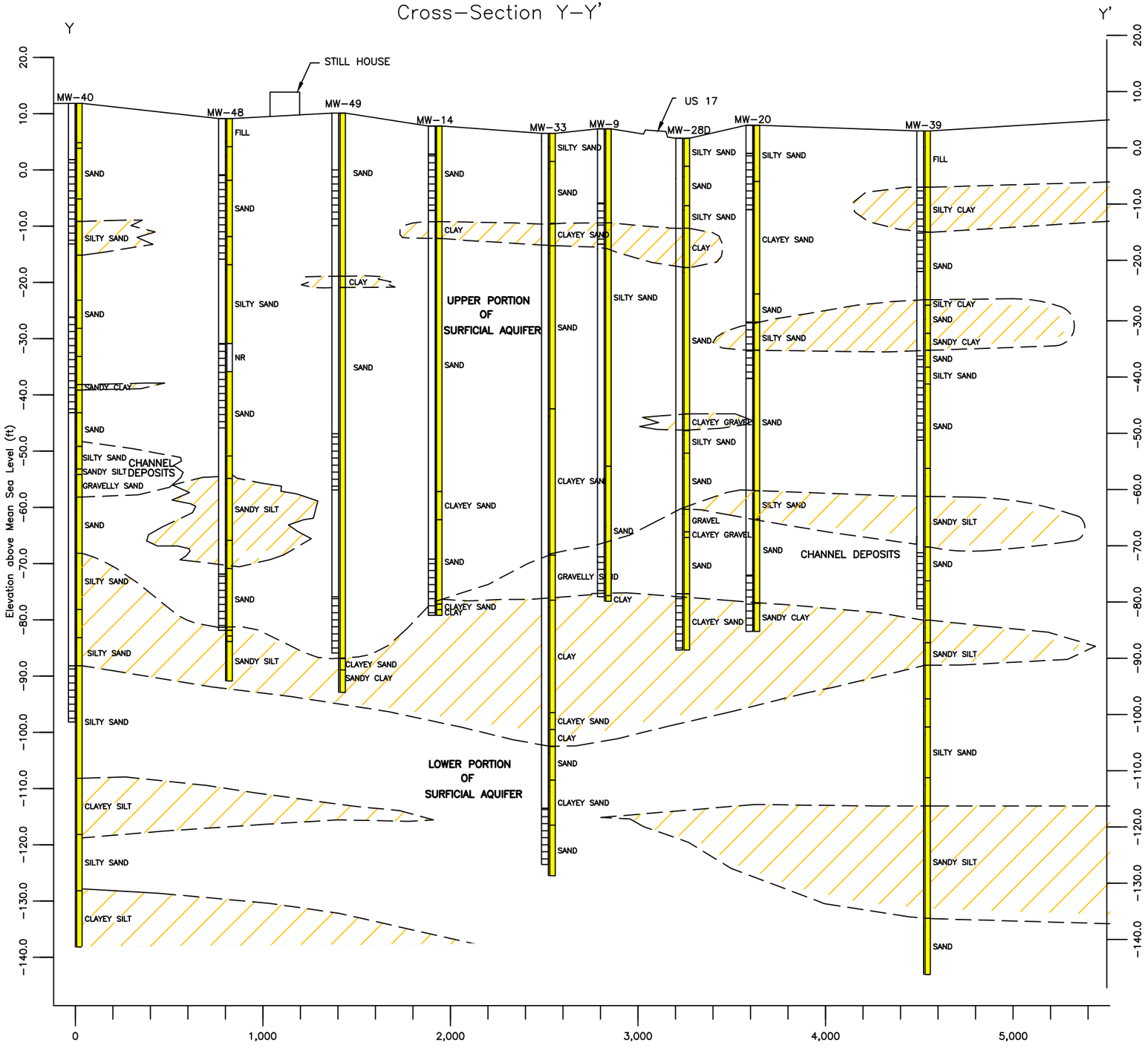
HYDROGEOLOGIC CROSS SECTION X–X'

ASHLAND BRUNSWICK GEORGIA
2801 COOK STREET
BRUNSWICK, GEORGIA

PROJECT NO.	PREPARED BY	DRAWN BY
WBS40012B1	RM	JH
DATE	REVIEWED BY	FILE NAME
8/28/14	TM	Cross_X30 2014

anteagroup

Cross–Section Y–Y'



LEGEND

MW–34

WELL CASING

WELL SCREEN

SAND
CLAY
SAND

MONITORING WELL NAME

LITHOLOGIC DESCRIPTIONS
NR = NO RECOVERY

LOW PERMEABILITY SEDIMENTS

APPROXIMATE STRATIGRAPHIC BOUNDARY

0 600
SCALE IN FEET
20

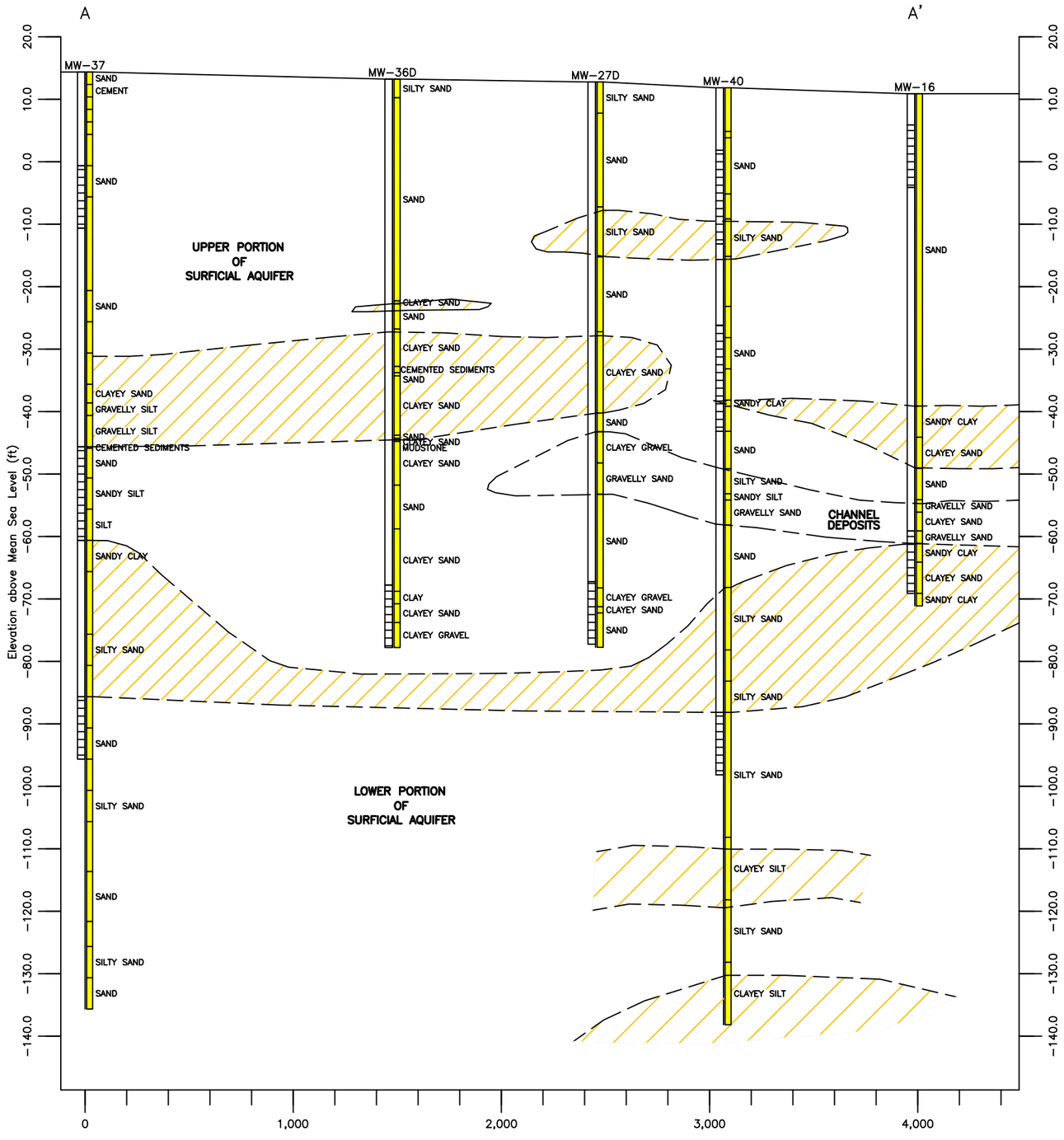
HYDROGEOLOGIC CROSS SECTION Y–Y'

ASHLAND BRUNSWICK GEORGIA
2801 COOK STREET
BRUNSWICK, GEORGIA

PROJECT NO.	PREPARED BY	DRAWN BY
WBS40012B1	DS	JH
DATE	REVIEWED BY	FILE NAME
3/11/13	RC	Cross_Y30

anteagroup

Cross–Section A–A'



LEGEND

MW–34 — MONITORING WELL NAME

WELL CASING / WELL SCREEN — SAND / CLAY / SAND

LITHOLOGIC DESCRIPTIONS
NR = NO RECOVERY

LOW PERMEABILITY SEDIMENTS

APPROXIMATE STRATIGRAPHIC BOUNDARY

0 — 600
SCALE IN FEET
20

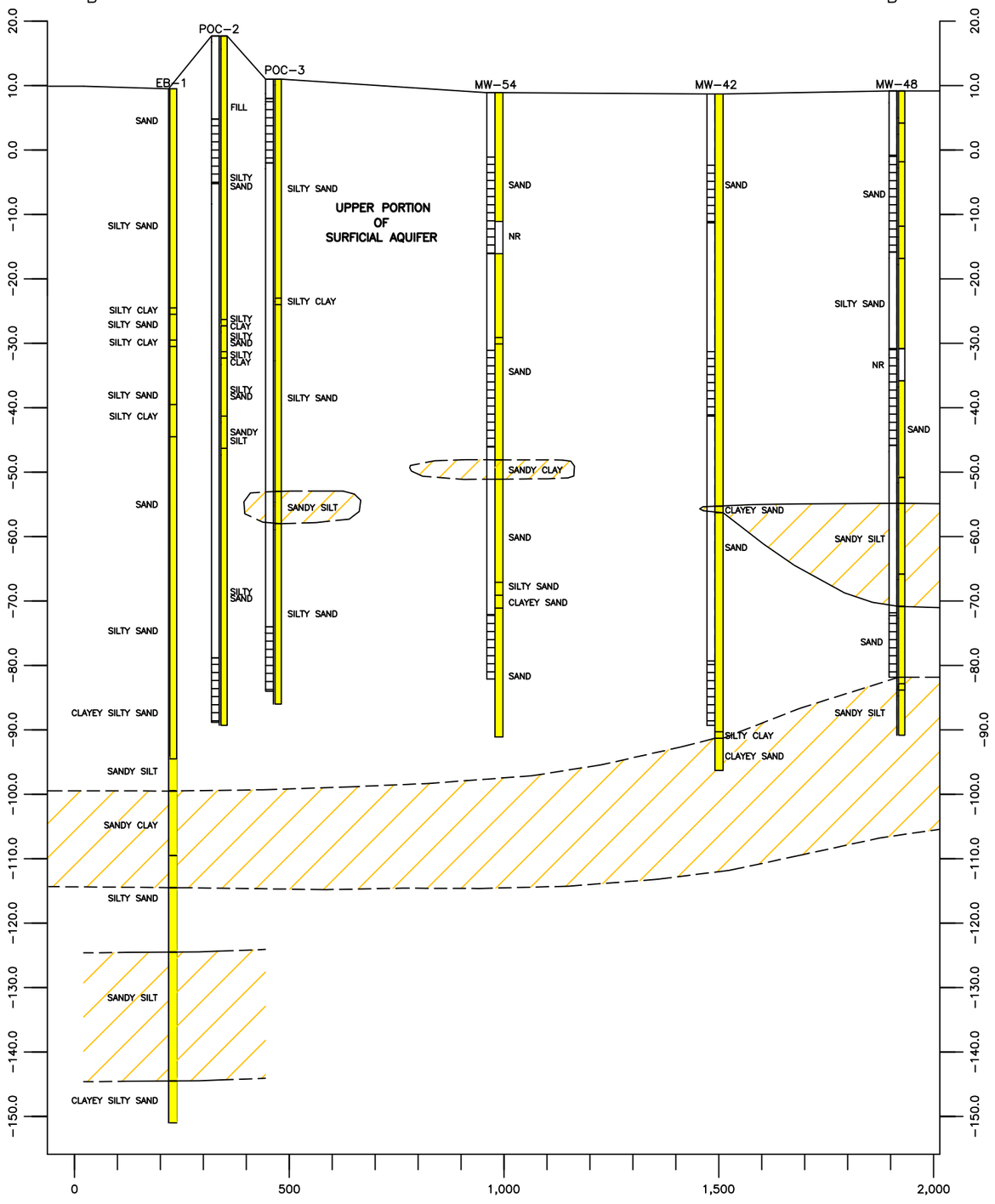
HYDROGEOLOGIC CROSS SECTION A–A'

FORMER HERCULES BRUNSWICK FACILITY
2801 COOK STREET
BRUNSWICK, GEORGIA

PROJECT NO.	PREPARED BY	DRAWN BY
WBS40012B1	RM	JH
DATE	REVIEWED BY	FILE NAME
10/24/12	TM	Cross_A30

anteagroup

Cross-Section B–B'



LEGEND

MW-34 — MONITORING WELL NAME

WELL CASING / WELL SCREEN — SAND / CLAY / SAND — LITHOLOGIC DESCRIPTIONS

NR = NO RECOVERY

LOW PERMEABILITY SEDIMENTS

APPROXIMATE STRATIGRAPHIC BOUNDARY

0 — 300

SCALE IN FEET

20

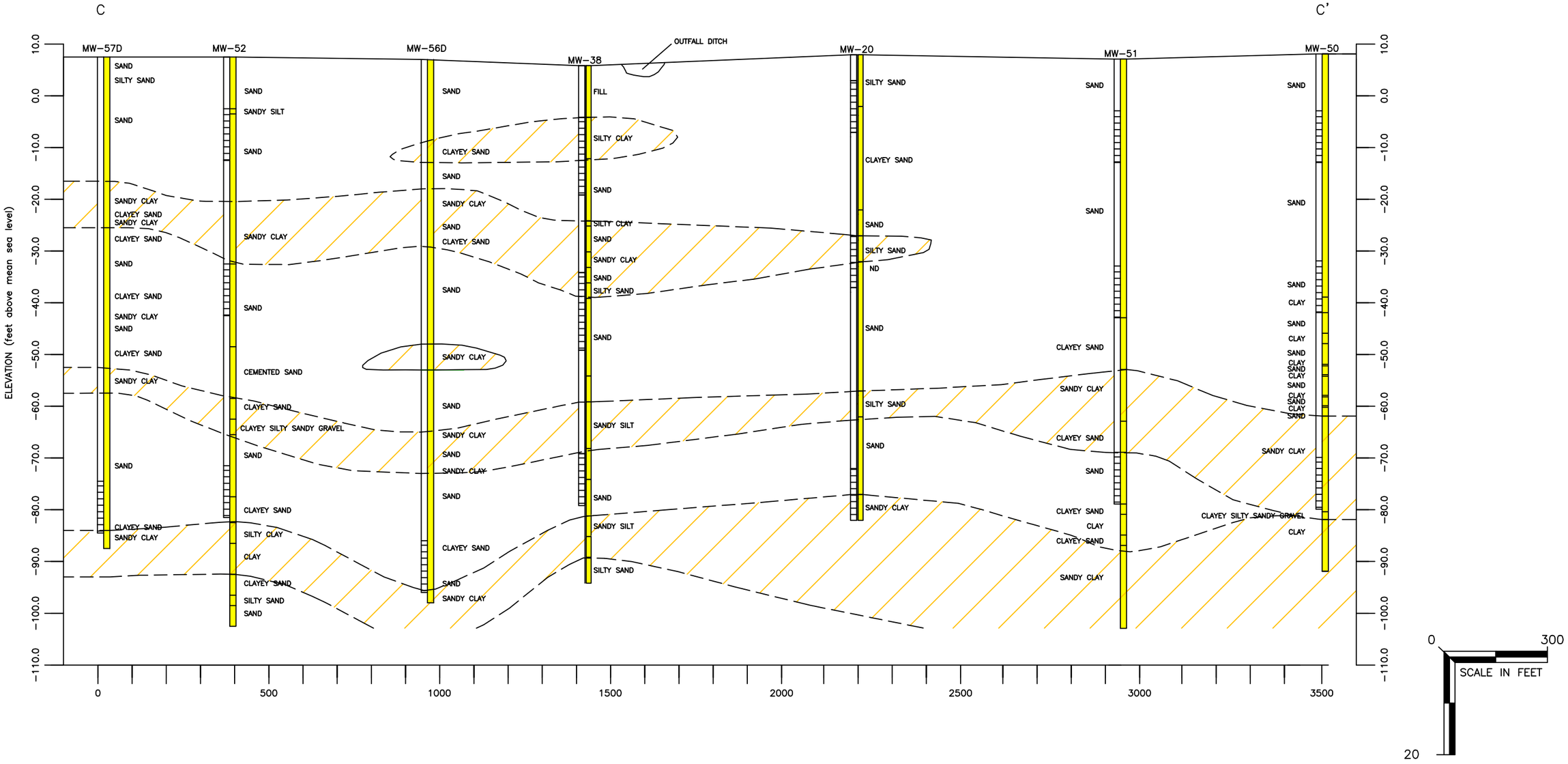
HYDROGEOLOGIC CROSS SECTION B–B'

ASHLAND BRUNSWICK GEORGIA
2801 COOK STREET
BRUNSWICK, GEORGIA

PROJECT NO.	PREPARED BY	DRAWN BY
WBS400112B1	DS	JH
DATE	REVIEWED BY	FILE NAME
10/26/12		Cross_B30

anteagroup

Cross-Section C-C'



LEGEND

MW-38 — MONITORING WELL NAME

WELL CASING / WELL SCREEN — SAND, CLAY, SAND

LITHOLOGIC DESCRIPTIONS
NR = NO RECOVERY

LOW PERMEABILITY SEDIMENTS

APPROXIMATE STRATIGRAPHIC BOUNDARY

HYDROGEOLOGIC CROSS SECTION C-C'

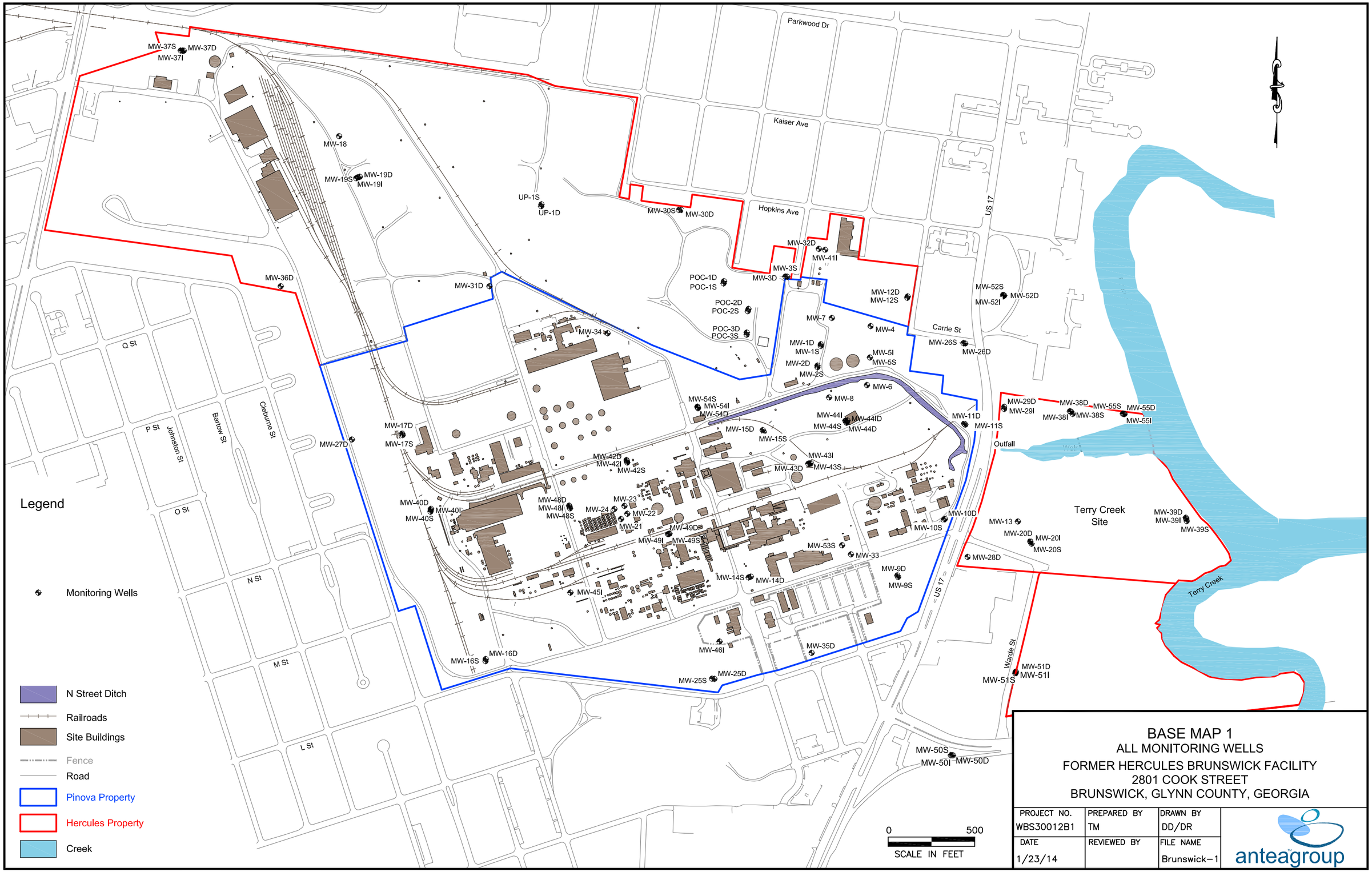
FORMER HERCULES BRUNSWICK FACILITY
2801 COOK STREET
BRUNSWICK, GEORGIA

PROJECT NO.	PREPARED BY	DRAWN BY
WBS40012B1	JB	JH
DATE	REVIEWED BY	FILE NAME
8/29/14	TM	Cross_C 2014

anteagroup

Appendix D

Grain Size and Permeability Testing



Legend

- Monitoring Wells
- N Street Ditch
- Railroads
- Site Buildings
- Fence
- Road
- Pinova Property
- Hercules Property
- Creek

0 500

SCALE IN FEET

BASE MAP 1

ALL MONITORING WELLS

FORMER HERCULES BRUNSWICK FACILITY
2801 COOK STREET
BRUNSWICK, GLYNN COUNTY, GEORGIA

PROJECT NO.	PREPARED BY	DRAWN BY
WBS30012B1	TM	DD/DR
DATE	REVIEWED BY	FILE NAME
1/23/14		Brunswick-1

anteagroup

EMC ENGINEERING SERVICES, INC.
23 E. Charlton St., Savannah, GA 31412

DELTA ENVIRONMENTAL - HERCULES

Job No.

Sample I.D.: #1, 40-50' MW-40 Date Tested: 4/21/10

Sample Description: Gray medium to fine slightly silty sand with shell fragments (SP-SM)

Moisture=14.1%, Specific Gravity = 2.55

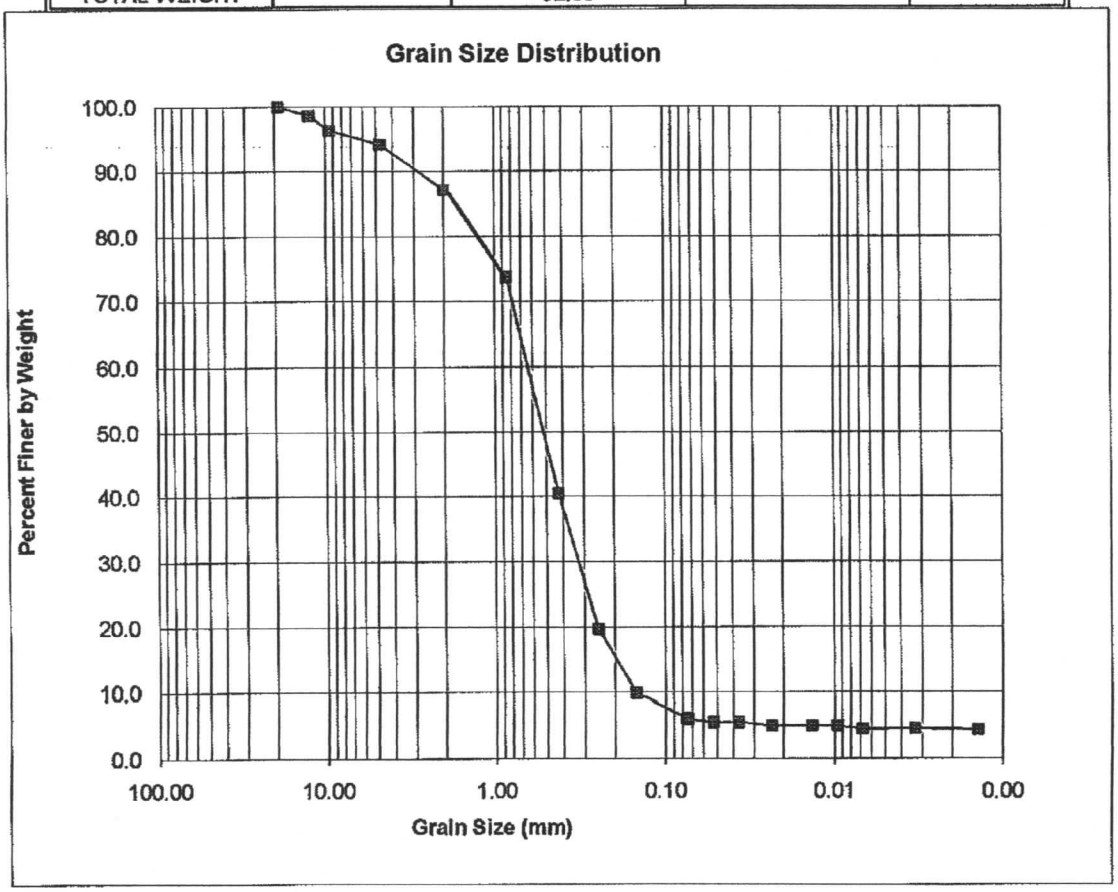
D_{10}=0.1513, D_{30}=0.3358, D_{50}=0.5121, D_{60}=0.6213, C_C=1.20, C_U=4.11

Recommended Coefficient of Permeability = 600 cm x 10^{-4}/sec (loose)

= 200 cm x 10^{-4}/sec (dense)

*Sample split at the #20 sieve

Seive No.	Sieve Opening (mm)	Weight Retained (grams)	Cum. Wt. Ret. (grams)	% Pass.
3/4"	19.00	0.00	0.00	100.0
1/2"	12.50	2.28	2.28	98.7
3/8"	9.50	4.22	6.50	96.4
#4	4.75	3.89	10.39	94.2
#10	2.00	12.73	23.12	87.1
TOTAL WEIGHT		179.18		
#20*	0.850	14.18	14.18	73.7
#40	0.425	35.31	49.49	40.5
#60	0.250	22.06	71.55	19.7
#100	0.150	10.46	82.01	9.9
#200	0.075	4.09	86.10	6.1
hydrometer 0.5 min	0.0740			6.0
1.0 min	0.0525			5.5
2.0 min	0.0371			5.5
5.0 min	0.0235			5.0
15.0 min	0.0136			5.0
30.0 min	0.0096			5.0
60.0 min	0.0068			4.5
250.0 min	0.0033			4.6
1440 min	0.0014			4.4
TOTAL WEIGHT		92.53		



EMC ENGINEERING SERVICES, INC.
23 E. Charlton St., Savannah, GA 31412

DELTA ENVIRONMENTAL - HERCULES

Job No.

Sample I.D.: #2, 85-95' MW-40 Date Tested: 4/21/10

Sample Description: Gray silty medium to fine sand with few shell fragments (SM)

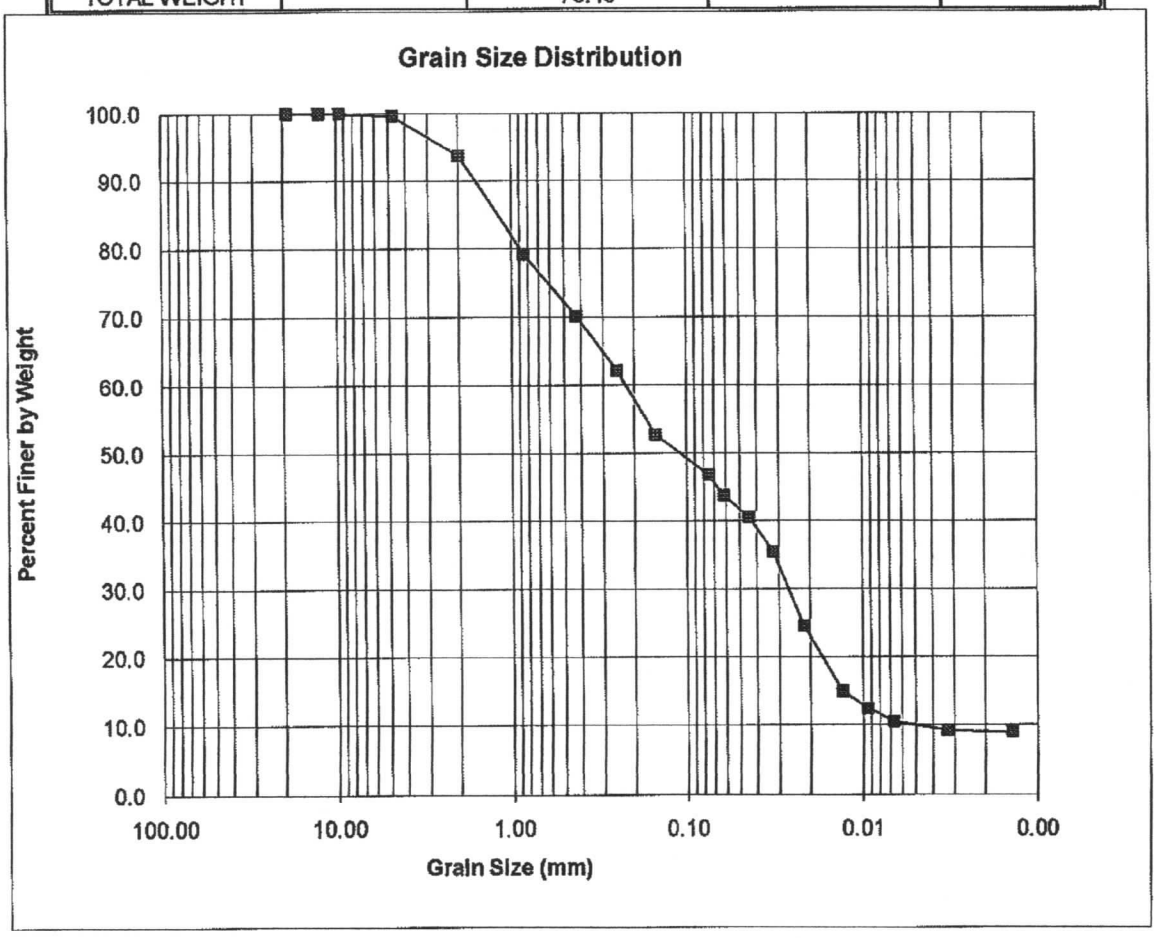
Moisture=20.9%, Specific Gravity = 2.55

D_{10}=0.0059, D_{30}=0.0263, D_{50}=0.1091, D_{60}=0.2237, C_C=0.52, C_U=37.89

Recommended Coefficient of Permeability = 100 cm x 10^{-4}/sec (loose)

= 1 cm x 10-4/sec (dense)

Seive No.	Sieve Opening (mm)	Weight Retained (grams)	Cum. Wt. Ret. (grams)	% Pass.
3/4"	19.00	0.00	0.00	100.0
1/2"	12.50	0.00	0.00	100.0
3/8"	9.50	0.00	0.00	100.0
#4	4.75	0.30	0.30	99.6
#10	2.00	4.42	4.72	93.8
#20	0.850	11.20	15.92	79.2
#40	0.425	6.91	22.83	70.1
#60	0.250	6.08	28.91	62.2
#100	0.150	7.26	36.17	52.7
#200	0.075	4.53	40.70	46.8
hydrometer 0.5 min	0.0614			43.7
1.0 min	0.0443			40.5
2.0 min	0.0323			35.4
5.0 min	0.0216			24.5
15.0 min	0.0131			14.9
30.0 min	0.0094			12.4
60.0 min	0.0067			10.5
250.0 min	0.0033			9.2
1440 min	0.0014			8.9
TOTAL WEIGHT		76.46		



EMC ENGINEERING SERVICES, INC.
23 E. Charlton St., Savannah, GA 31412

DELTA ENVIRONMENTAL - HERCULES

Job No.

Sample I.D.: #3, 100-110' MW-40 Date Tested: 4/21/10

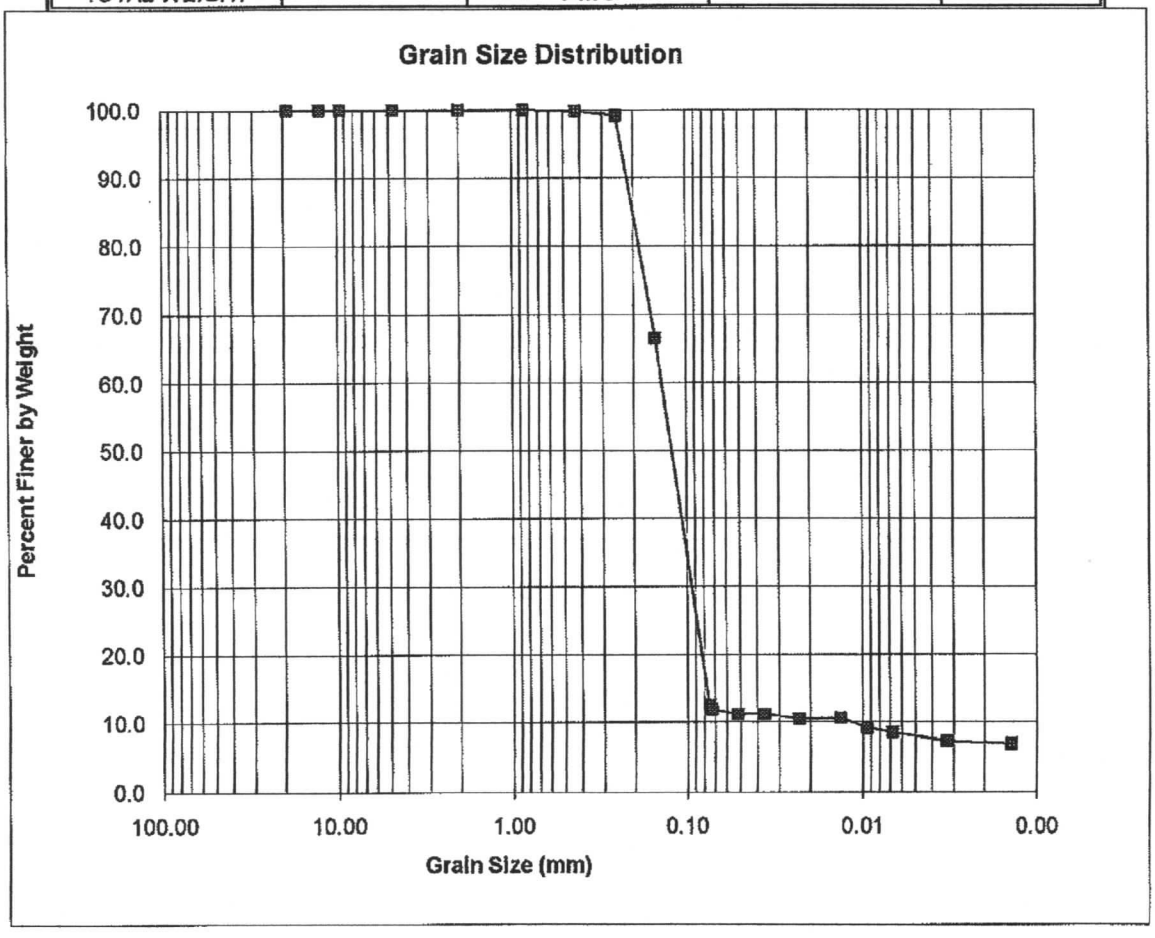
Sample Description: Gray clayey fine sand (SP-SC)

Moisture=19.0%, Specific Gravity = 2.55

D_{10}=0.0114, D_{30}=0.1014, D_{50}=0.1260, D_{60}=0.1397, C_C=6.45, C_U=12.25

Recommended Coefficient of Permeability =

Seive No.	Sieve Opening (mm)	Weight Retained (grams)	Cum. Wt. Ret. (grams)	% Pass.
3/4"	19.00	0.00	0.00	100.0
1/2"	12.50	0.00	0.00	100.0
3/8"	9.50	0.00	0.00	100.0
#4	4.75	0.00	0.00	100.0
#10	2.00	0.00	0.00	100.0
#20	0.850	0.00	0.00	100.0
#40	0.425	0.12	0.12	99.8
#60	0.250	0.50	0.62	99.2
#100	0.150	24.32	24.94	66.6
#200	0.075	40.46	65.40	12.5
hydrometer 0.5 min	0.0730			11.9
1.0 min	0.0518			11.2
2.0 min	0.0366			11.2
5.0 min	0.0232			10.5
15.0 min	0.0134			10.6
30.0 min	0.0095			9.2
60.0 min	0.0068			8.5
250.0 min	0.0033			7.3
1440 min	0.0014			6.9
TOTAL WEIGHT		74.75		



EMC ENGINEERING SERVICES, INC.
23 E. Charlton St., Savannah, GA 31412

DELTA ENVIRONMENTAL - HERCULES

Job No.

Sample I.D.: #4, 140-150' MW-40 Date Tested: 4/21/10

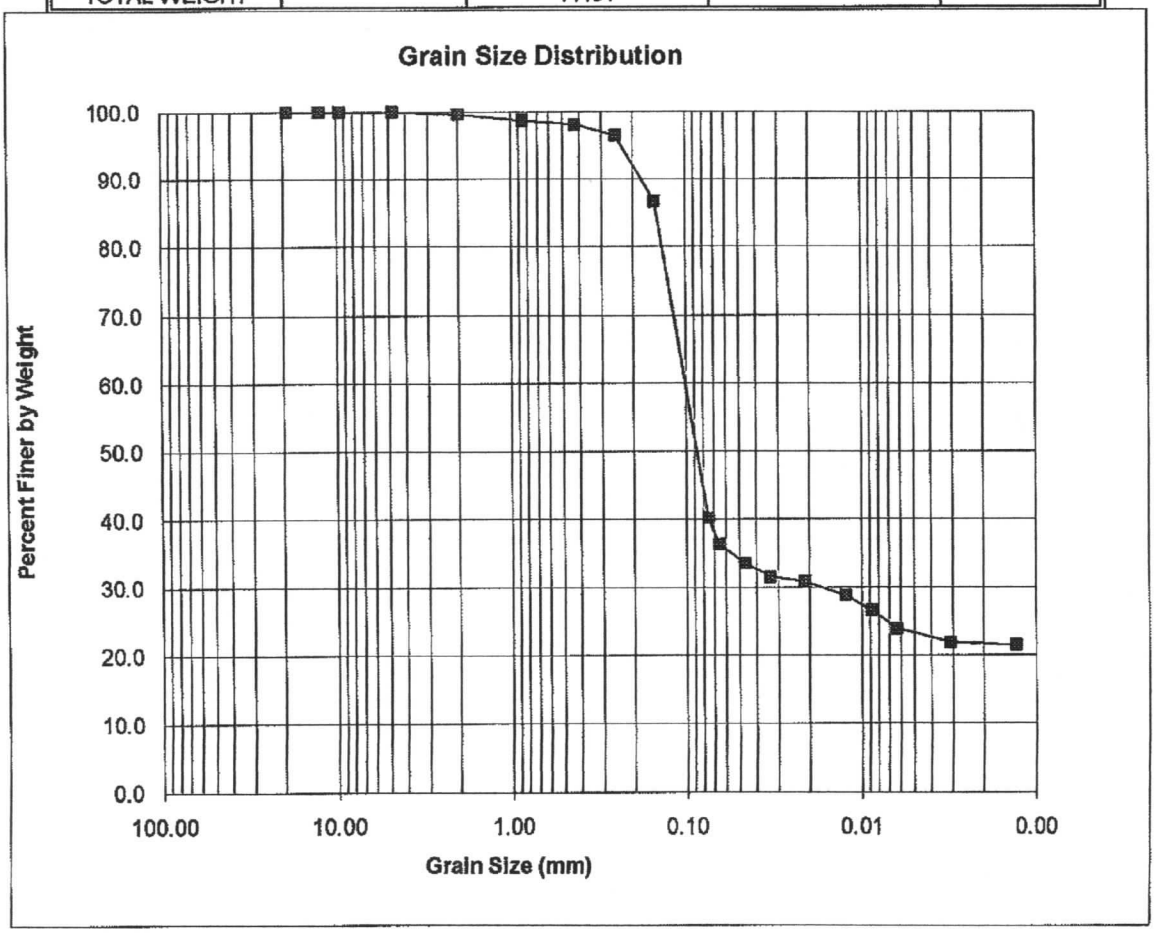
Sample Description: Gray fine sand with clay and silt (SC)

Moisture=36.5%, Specific Gravity = 2.55

D_{10}= , D_{30}=0.0160, D_{50}=0.0896, D_{60}=0.1026, C_C= , C_U=

Recommended Coefficient of Permeability =

Seive No.	Sieve Opening (mm)	Weight Retained (grams)	Cum. Wt. Ret. (grams)	% Pass.
3/4"	19.00	0.00	0.00	100.0
1/2"	12.50	0.00	0.00	100.0
3/8"	9.50	0.00	0.00	100.0
#4	4.75	0.00	0.00	100.0
#10	2.00	0.32	0.32	99.6
#20	0.850	0.67	0.99	98.7
#40	0.425	0.47	1.46	98.1
#60	0.250	1.29	2.75	96.5
#100	0.150	7.55	10.30	86.7
#200	0.075	36.14	46.44	40.2
hydrometer 0.5 min	0.0652			36.3
1.0 min	0.0468			33.5
2.0 min	0.0334			31.5
5.0 min	0.0212			30.8
15.0 min	0.0124			28.8
30.0 min	0.0088			26.6
60.0 min	0.0063			23.9
250.0 min	0.0031			21.9
1440 min	0.0013			21.5
TOTAL WEIGHT		77.61		



PTS Laboratories, Inc.

8100 Secura Way • Santa Fe Springs, CA 90670
Telephone (562) 347-2500 • Fax (562) 907-3610

May 10, 2012

Dean Salisbury
Antea Group
800 Dutch Square Blvd.
Columbia, SC 29210

Re: PTS File No: 42301
Physical Properties Data
RFI Phase III; WBS30012B1

Dear Mr. Salisbury:

Please find enclosed report for Physical Properties analyses conducted upon samples received from your RFI Phase III; WBS30012B1 project. All analyses were performed by applicable ASTM, EPA, or API methodologies. An electronic version of the report has previously been sent to your attention via the internet. The samples are currently in storage and will be retained for thirty days past completion of testing at no charge. Please note that the samples will be disposed of at that time. You may contact me regarding storage, disposal, or return of the samples.

PTS Laboratories appreciates the opportunity to be of service. If you have any questions or require additional information, please contact Rachel Spitz at (562) 347-2504.

Sincerely,
PTS Laboratories

For Rachel Spitz

Michael Mark Brady, P.G.
District Manager

Encl.

PTS Laboratories

Project Name: RFI Phase III
Project Number: WBS30012B1

PTS File No: 42301
Client: Antea Group

TEST PROGRAM - 20120430

CORE ID	Depth ft.	Core Recovery ft.	TOC/foc Walkley-Black	Hydraulic Conductivity Pkg.				Notes
		Plugs:	Grab	Vert. 1"				
Date Received: 20120427								
MW-51S (10-20)	10-20	N/A	X					
MW-51I (36-46)	36-46	N/A	X					
MW-51D (76-86)	76-86	N/A	X					
MW-43 (105-107)	105-107	2.50		X				Labeled MW-43 104-106 (top & bottom)
MW-49 (101-103)	101-103	2.50		X				
TOTALS:	2 cores 3 jars	5.00	3	2				5

Laboratory Test Program Notes

Standard TAT for basic analysis is 15 business days.

Hydraulic Conductivity Package – Saturated Zone: Native-state permeability to water, total and air-filled porosity, grain and bulk density, moisture content, total pore fluid (water only) saturation.

MW-43 (105-107) labeled correctly on COC per R. McLain/Antea 20120430.

PTS File No: 42301
Client: Antea Group

PTS Laboratories

PHYSICAL PROPERTIES DATA - HYDRAULIC CONDUCTIVITY PACKAGE

PROJECT NAME: RFI Phase III
PROJECT NO: WBS30012B1

		METHODS:	API RP 40 / ASTM D2216	API RP 40		API RP 40		API RP 40	API RP 40; EPA 9100	
									25 PSI CONFINING STRESS	
SAMPLE ID.	DEPTH, ft.	SAMPLE ORIENTATION (1)	MOISTURE CONTENT, % weight	DENSITY		POROSITY, %Vb (2)		TOTAL PORE FLUID SATURATIONS (3), % Pv	EFFECTIVE (4,5) PERMEABILITY TO WATER, millidarcy	HYDRAULIC CONDUCTIVITY (4,5), cm/s
				DRY BULK, g/cc	GRAIN, g/cc	TOTAL	AIR FILLED			
MW-43 (105-107)	106.5	V	12.9	1.72	2.65	34.9	12.6	63.9	9.04	9.19E-06
MW-49 (101-103)	102.2	V	18.0	1.71	2.71	36.7	5.9	83.8	0.92	9.51E-07

(1) Sample Orientation: H = horizontal; V = vertical; R = remold (2) Total Porosity = no pore fluids in place; all interconnected pore channels; Air Filled = pore channels not occupied by pore fluids (3) Water = 0.9996 g/cc (4) Native State or Effective = With as-received pore fluids in place (5) Permeability to water and hydraulic conductivity measured at saturated conditions; Vb = Bulk Volume, cc; Pv = Pore Volume, cc; ND = Not Detected

PTS File No: 42301
Client: Antea Group

ORGANIC CARBON DATA - TOC (foc)

(METHODOLOGY: WALKLEY-BLACK)

PROJECT NAME: RFI Phase III
PROJECT NO: WBS30012B1

SAMPLE ID.	DEPTH, ft.	ANALYSIS DATE	ANALYSIS TIME	SAMPLE MATRIX	TOTAL ORGANIC CARBON, mg/kg	FRACTION ORGANIC CARBON, g/g
MW-51S (10-20)	10-20	20120504	1052	SOIL	6800	6.80E-03
MW-51I (36-46)	36-46	20120504	1052	SOIL	2150	2.15E-03
MW-51D (76-86)	76-86	20120504	1052	SOIL	540	5.40E-04
Blank	N/A	20120504	1052	BLANK	ND	ND
SRM D076-542	N/A	20120504	1052	SRM	2900	2.90E-03
				Reporting Limit:	100	1.00E-04

QC DATA

SRM ID/Lot No.	REC (%)	Control Limits	Certified Concentration mg/kg	QC Performance Acceptance Limits, mg/kg Lower	Upper
D076-542	105	75-125	2750	2063	3438

ND = Not Detected

PTS LABORATORIES

Analysis Request & Chain of Custody Record

Page 1 of 1

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Client Name: Antea Group	
Address 800 Dutch Square Blvd Columbia, SC ZIP: 29210	
Phone/Fax:803-404-5800	
Client Contact:	Dean Salisbury 803-404-5901
Project Name/No:	RFI Phase III WBS30012B1
Site Name:	Former Hercules Facility
Site Location:	Brunswick State: Georgia
Invoice/Report To:	dean.salisbury@anteagroup.com

SAMPLE ID	DATE	TIME	Type: GRAB(G) COMP(C)	Matrix: W = Water S = Soil SL = Sludge O = other	Total: Number of Containers	bottle	size	pres.	Requested Analysis: Hydraulic conductivity pkg. (API RP40, ASTM D22, EPA 9100)	Requested Analysis: Total Organic Carbon (Walkley-Black)
						na	Shelby	na		glass 4oz na
MW-51S (10-20)	3/16/2012	1000	G	S	1					Y
MW-51I (36-46)	3/16/2012	1200	G	S	1					Y
MW-51D (76-86)	3/15/2012	1400	G	S	1					Y
MW-43 (105-107)	3/27/2012	1200	G	S	1				Y	
MW-49 (101-103)	3/28/2012	1200	G	S	1				Y	

P = plastic, A = Amber glass, G = glass, V = vial

1L =1, 40mL(vial)=V, 250mL=250, 8oz=8, 16oz=16

HCL=1, HNO3=2, H2SO4=3, NaOH=4, O = other

Comments

42301

Client/Consultant Remarks:Samples

Laboratory Remarks:

Intact? Y N

Ice? Y N

Temp:

Requested TAT

Contract

24 hr 72 hr

48 hr Standard

Other

Special Reporting Requirements: Fax Email PDF

Standard QC Level 3 QC Level 4 QC TXTRRP LA RECAP

Special Detection Limit: (Specify)

Custody Seals: Y N Cooler:

Containers:

1. Relinquished by:	date: 4/24/12	time: 1530	2. Received By:	1035 4/27/12
3. Relinquished by:	date:	time:	4. Received By:	
5. Relinquished by:	date:	time:	6. Received by Laboratory:	

Appendix E

Historic Potentiometric Maps

N
W E
S

MW-37S 7.99
MW-19S 8.02
UP-1S 8.13
MW-30S 4.72
POC-1S 6.90
MW-3S 5.18
POC-2S 5.81
POC-3S 5.94
MW-7 4.72
MW-12S 3.99
MW-4 4.34
MW-1S 4.38
MW-5S 3.86
MW-26S 1.60
MW-2S 4.22
MW-6 3.93
MW-54S 4.08
MW-8 4.19
MW-15S 3.24
MW-44S 3.03
MW-11S 2.81
MW-38S 0.82
MW-17S 7.74
MW-24 7.88
MW-23 8.01
MW-40S 4.90
MW-48S 5.90
MW-21 7.98
MW-22 8.06
MW-10S 3.28
MW-53S 3.42
MW-20S 1.80
MW-39S -0.57
MW-14S 4.23
MW-9S 3.54
MW-16S 4.38
MW-25S 2.83

Parkwood Dr
Kaiser Ave
Hopkins Ave
US 17
Carrie St
Dupree Creek
Outfall
Weir
Terry Creek Site
Terry Creek
Warde St
F.J. Torras Causeway
R St
Q St
P St
O St
N St
M St
L St
Johnston St
Bartow St
Cleburne St

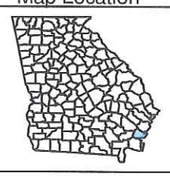
8 7 6 5 4 3 2 1

Legend

- Shallow Potentiometric Lines
- Monitoring Wells
- Fenceline
- Railroads
- Creek
- Site Buildings
- N Street Ditch
- Roads
- Hercules_Property
- Pinova_Property
- Groundwater Flow Direction

Notes:
1) Groundwater elevations were measured on 12/14/2010
2) Groundwater elevations are reported in feet

Map Location

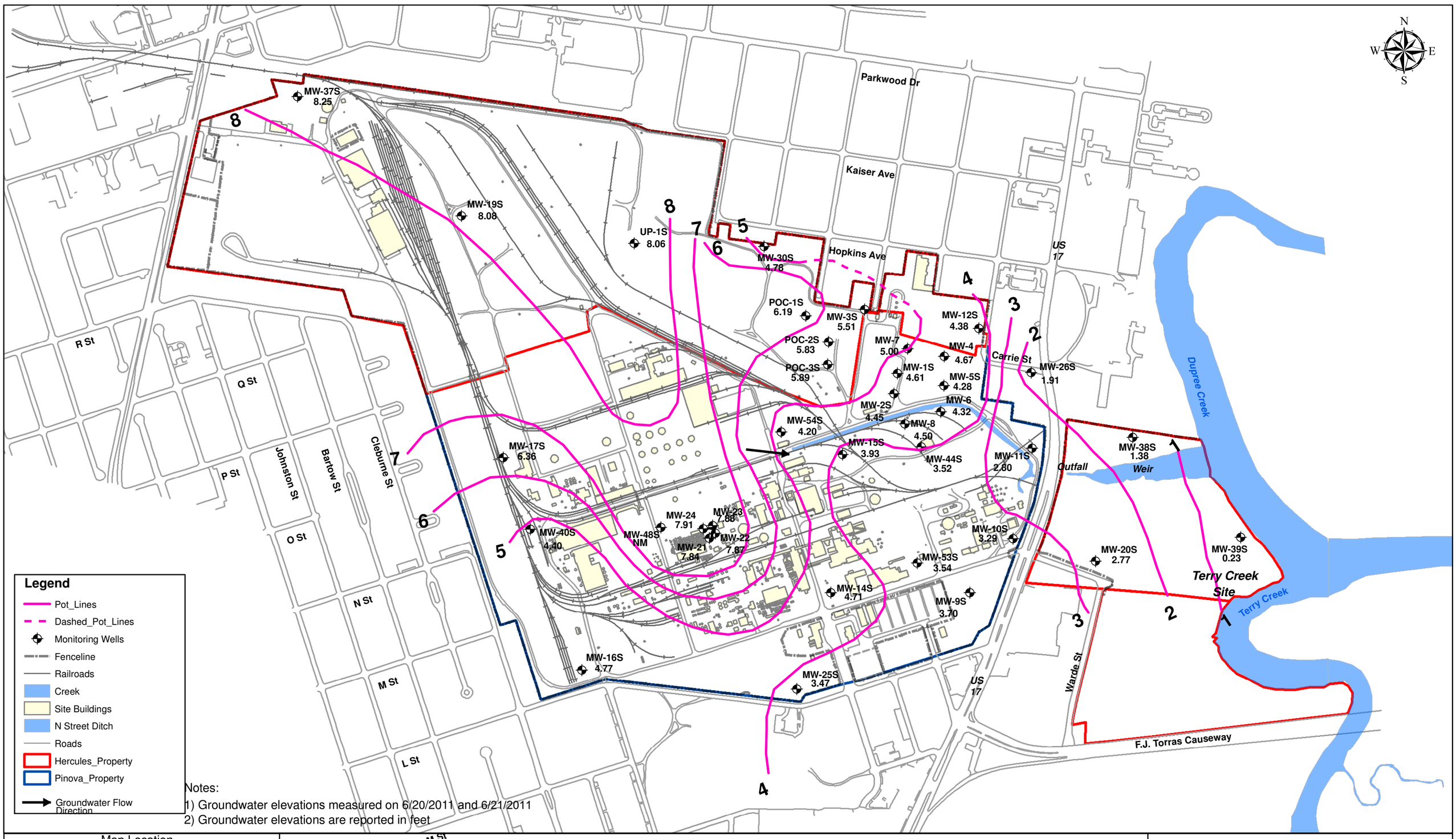


0 125 250 500 750 1,000 Feet

Former Hercules Brunswick Facility
Potentiometric Map
Surficial Aquifer - Upper Unit

anteagroup

Figure:4
Date: May 2011
Project Number: J09850809



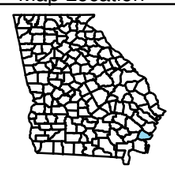
Legend

- Pot_Lines
- Dashed_Pot_Lines
- Monitoring Wells
- Fenceline
- Railroads
- Creek
- Site Buildings
- N Street Ditch
- Roads
- Hercules_Property
- Pinova_Property
- Groundwater Flow Direction

Notes:

1) Groundwater elevations measured on 6/20/2011 and 6/21/2011
2) Groundwater elevations are reported in feet

Map Location



0 130 260 520 780 1,040 Feet

Former Hercules Brunswick Facility

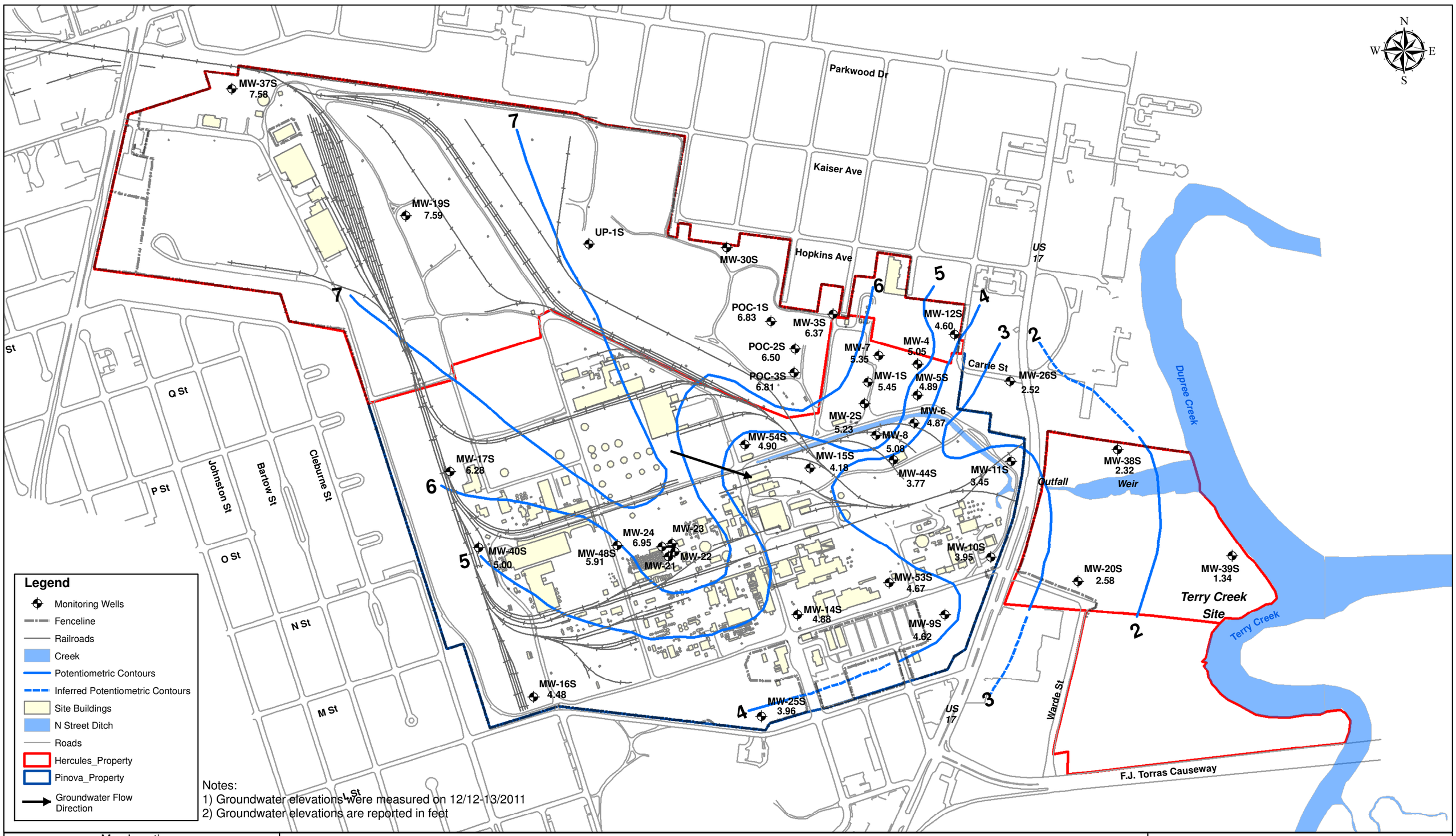
Potentiometric Map
Surficial Aquifer - Upper Unit

anteagroup

Figure:4

Date:October 2011

Project Number: WBS40012B1



Legend

- Monitoring Wells
- Fenceline
- Railroads
- Creek
- Potentiometric Contours
- Inferred Potentiometric Contours
- Site Buildings
- N Street Ditch
- Roads
- Hercules_Property
- Pinova_Property
- Groundwater Flow Direction

Notes:
1) Groundwater elevations were measured on 12/12-13/2011
2) Groundwater elevations are reported in feet

Map Location

0 125 250 500 750 1,000 Feet

Former Hercules Brunswick Facility

Potentiometric Map
Surficial Aquifer - Upper Unit

anteagroup

Figure:4

Date: January 2012

Project Number: WBS40012B1

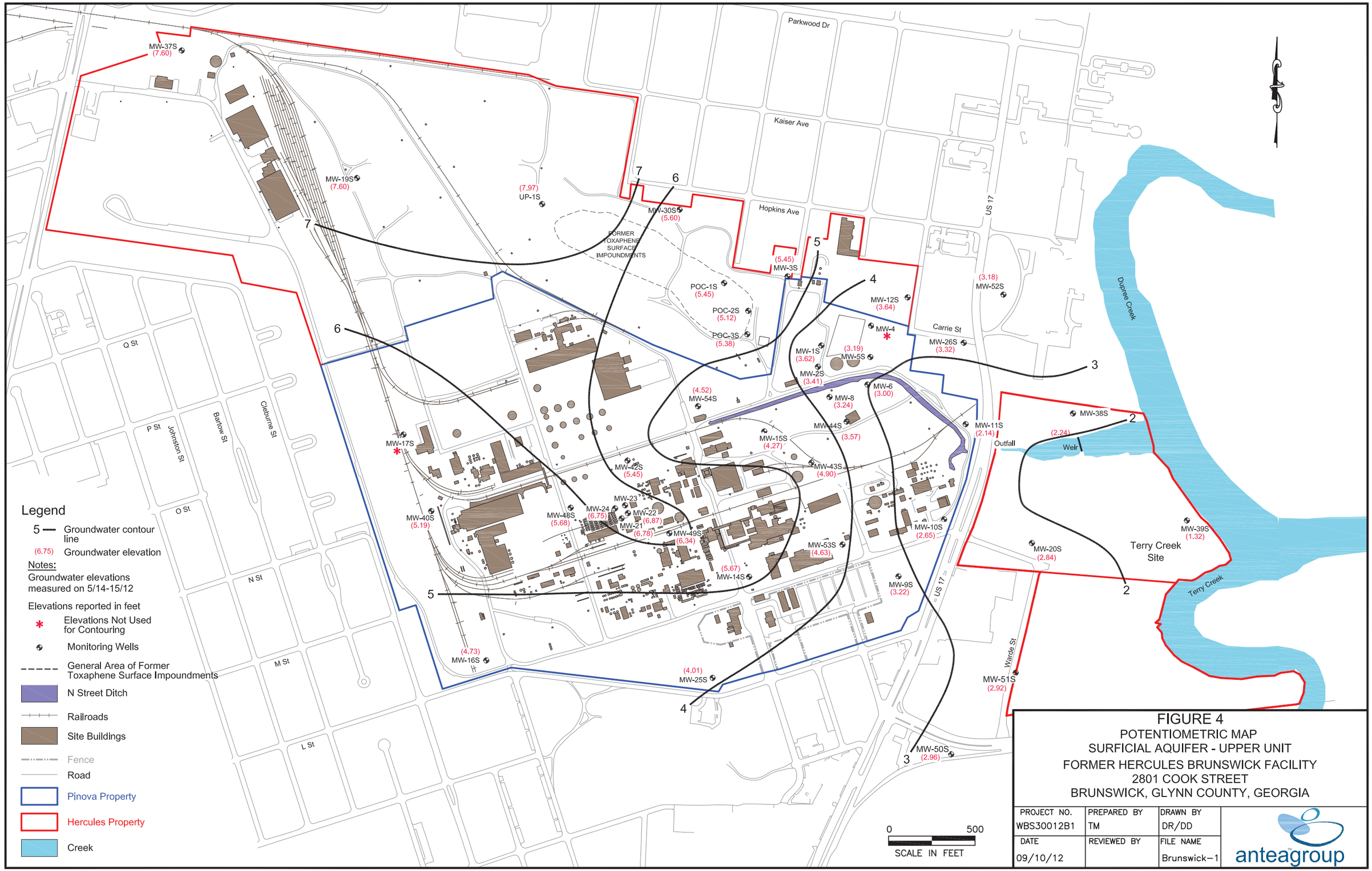


FIGURE 4
POTENTIOMETRIC MAP
SURFICIAL AQUIFER - UPPER UNIT
FORMER HERCULES BRUNSWICK FACILITY
2801 COOK STREET
BRUNSWICK, GLYNN COUNTY, GEORGIA

PROJECT NO.	PREPARED BY	DRAWN BY	
WBS30012B1	TM	DR/DD	anteagroup
DATE	REVIEWED BY	FILE NAME	
09/10/12		Brunswick-1	

MW-37S (9.06)
MW-19S (8.98)
UP-1S (7.83)
MW-30S (5.93)
Parkwood Dr
Kaiser Ave
Hopkins Ave
US 17
MW-3S (4.39)
GROUNDWATER FLOW
POC-1S (5.62)
POC-2S (5.14)
POC-3S (4.90)
MW-12S (3.37)
MW-52S (2.94)
MW-4 (3.35)
Carrie St
MW-26S (2.62)
(3.57) MW-1S
(3.06)
MW-5S
MW-2S (3.64)
MW-6 (2.98)
MW-54S (4.46)
MW-8 (3.26)
MW-44S (3.31)
MW-11S (1.98)
MW-38S (2.52)
MW-15S (4.10)
MW-13S (4.33)
Outfall
Weir
Dupree Creek
MW-17S (6.65)
MW-42S (5.63)
(NM) MW-23
MW-24 (6.75)
MW-22 (6.63)
MW-21 (6.69)
MW-48S (6.53)
MW-40S (5.73)
MW-49S (5.76)
MW-53S (3.93)
MW-10S (2.44)
MW-39S (1.59)
MW-20S (3.02)
Terry Creek Site
MW-14S (4.95)
MW-9S (2.58)
MW-16S (4.11)
MW-25S (3.18)
MW-51S (2.75)
Warde St
MW-50S (2.75)
Q St
P St
O St
N St
M St
L St
Johnston St
Barlow St
Cleburne St

Legend

- 5 — Groundwater contour line
- (3.57) Groundwater elevation
- Monitoring Wells

Notes:
Groundwater elevations measured on 12/10-11/2012

Elevations reported in feet

* Elevations Not Used for Contouring

- N Street Ditch
- Railroads
- Site Buildings
- Fence
- Road
- Pinova Property
- Hercules Property
- Creek

0 500
SCALE IN FEET

FIGURE 4
POTENTIOMETRIC MAP
SURFICIAL AQUIFER - UPPER UNIT
FORMER HERCULES BRUNSWICK FACILITY
2801 COOK STREET
BRUNSWICK, GLYNN COUNTY, GEORGIA

PROJECT NO.	PREPARED BY	DRAWN BY
WBS30012B1	TM	DR/DD
DATE	REVIEWED BY	FILE NAME
3/14/13		Brunswick–1 DR

anteagroup

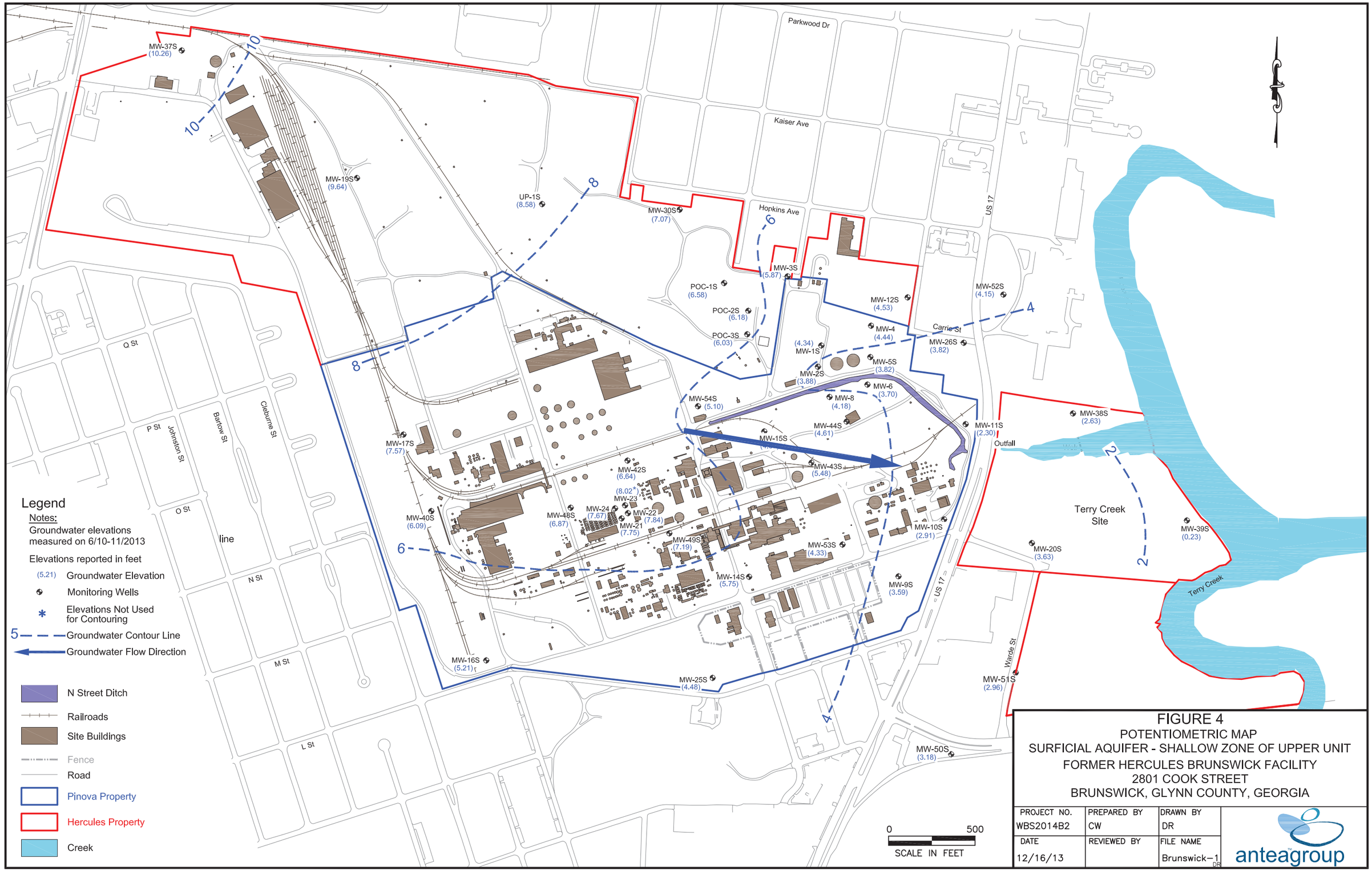


FIGURE 4
POTENTIOMETRIC MAP
SURFICIAL AQUIFER - SHALLOW ZONE OF UPPER UNIT
FORMER HERCULES BRUNSWICK FACILITY
2801 COOK STREET
BRUNSWICK, GLYNN COUNTY, GEORGIA

PROJECT NO.	PREPARED BY	DRAWN BY	
WBS2014B2	CW	DR	anteagroup
DATE	REVIEWED BY	FILE NAME	
12/16/13		Brunswick-1 DR	

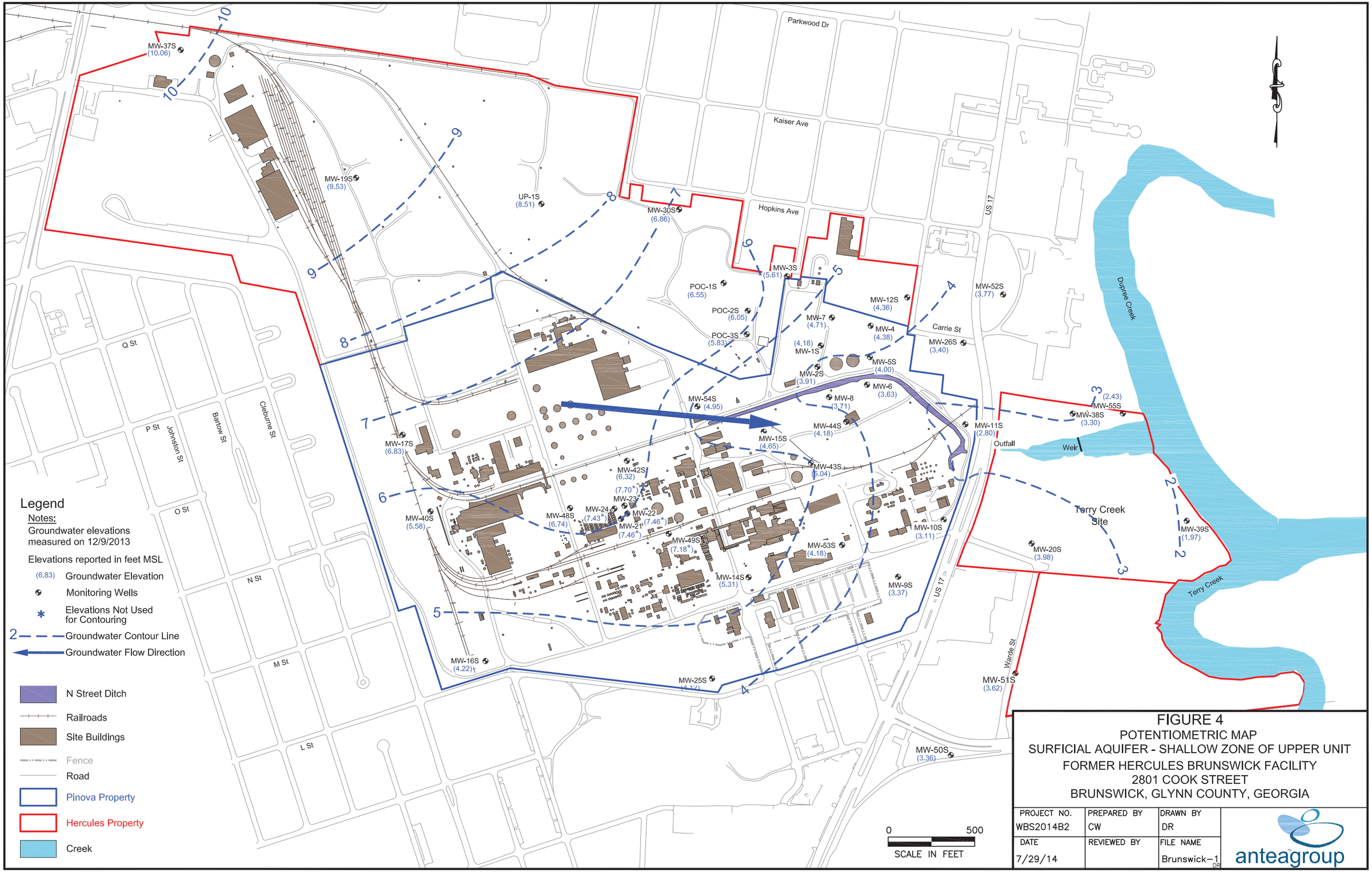


FIGURE 4
POTENTIOMETRIC MAP
SURFICIAL AQUIFER - SHALLOW ZONE OF UPPER UNIT
FORMER HERCULES BRUNSWICK FACILITY
2801 COOK STREET
BRUNSWICK, GLYNN COUNTY, GEORGIA

PROJECT NO.	PREPARED BY	DRAWN BY
WBS2014B2	CW	DR
DATE	REVIEWED BY	FILE NAME
7/29/14		Brunswick-1 DR

anteagroup

MW-37D
MW-18
(6.11)
MW-19D
UP-1DR
(5.29)
MW-30D
(4.90)
Parkwood Dr
Kaiser Ave
Hopkins Ave
US 17
MW-32D
(4.21)
(4.65)
POC-1D
MW-3D
(3.41)
MW-12D
MW-52D
(3.50)
MW-36D
(5.30)
MW-31D
(5.47)
(4.37)
POC-2D
(4.27) POC-3D
MW-34
Carrie St
MW-26D
(3.47)
MW-1D
MW-2D
Dupree Creek
(3.51)
MW-29D
(3.41)
MW-38D
(3.14)
MW-55D
Q St
P St
Johnston St
Bartow St
Cleburne St
(5.39)
MW-17D
MW-54D
(4.55)
MW-15D
(4.18)
(3.95)
MW-44ID
MW-44D
MW-11D
Outfall
Weir
MW-27D
(4.29*)
(4.84)
MW-42D
MW-43D
(4.06)
(5.24)
MW-48D
MW-40D
(4.79)
MW-49D
Terry Creek
Site
(3.24)
MW-39D
MW-10D
(3.35)
MW-13
MW-20D
(3.45)
MW-33
MW-28D
(3.57)
MW-9D
(3.95)
MW-14D
(4.53)
Terry Creek
O St
N St
M St
L St
MW-16D
(4.58)
MW-35D
(4.04)
Warde St
(3.37)
MW-51D
MW-25D
(3.83)
MW-50D
(3.50)

Legend

Notes:
Groundwater elevations measured on 12/9/2013

Elevations reported in feet MSL

(6.83) Groundwater Elevation

Monitoring Wells

* Elevations Not Used for Contouring

2 Groundwater Contour Line

Groundwater Flow Direction

N Street Ditch

Railroads

Site Buildings

Fence

Road

Pinova Property

Hercules Property

Creek

0 500

SCALE IN FEET

FIGURE 5
POTENTIOMETRIC MAP
SURFICIAL AQUIFER-LOWER ZONE OF UPPER UNIT
FORMER HERCULES BRUNSWICK FACILITY
2801 COOK STREET
BRUNSWICK, GLYNN COUNTY, GEORGIA

PROJECT NO.	PREPARED BY	DRAWN BY	
WB2014B2	CW	DR	anteagroup
DATE	REVIEWED BY	FILE NAME	
7/29/14		Brunswick-1 DR	

Appendix F

Groundwater Gradient Calculations

Vertical Hydraulic Gradients (Upper Unit of Surficial Aquifer)
Former Hercules Brunswick Site

Well Set				Groundwater Elevation			Shallow	Intermediate		Deep	Vertical Gradient		
Shallow	Int.	Deep	Date	Shallow	Int.	Deep	BOS Elev.	TOS Elev.	BOS Elev.	TOS Elev.	Shallow to Int.	Int. to Deep	Shallow to Deep
			12/14/2009	5.02		5.30							**-0.005**
			3/9/2010	4.39		5.26							**-0.016**
			5/18/2010	3.86		4.58							**-0.013**
			7/28/2010	3.72		4.45							**-0.013**
MW-9S		MW-9D	5/15/2012	3.22		2.94	-14.54			-70.64			**0.005**
			12/11/2012	2.58		3.31							**-0.013**
			6/10/2013	3.59		3.36							**0.004**
			12/9/2013	3.37		3.95							**-0.010**
			6/9/2014	2.95		3.84							**-0.016**
			12/14/2009	4.13		4.48							**-0.005**
			3/9/2010	3.74		4.43							**-0.010**
			5/18/2010	3.36		3.73							**-0.005**
			7/28/2010	3.44		3.79							**-0.005**
MW-10S		MW-10D	5/15/2012	2.65		2.19	-11.13			-81.84			**0.007**
			12/11/2012	2.44		2.68							**-0.003**
			6/10/2013	2.91		2.56							**0.005**
			12/9/2013	3.11		3.35							**-0.003**
			6/9/2014	3.18		3.14							**0.001**
			12/14/2009	3.67	4.80						**-0.040**		
			3/9/2010	3.27	4.76						**-0.052**		
			5/18/2010	2.84	4.04						**-0.042**		
			7/28/2010	3.12	4.24						**-0.039**		
MW-11S	MW-11D		5/15/2012	2.14	2.51		-15.14	-43.64			**-0.013**		
			12/11/2012	1.98	3.05						**-0.038**		
			6/10/2013	2.30	2.89						**-0.021**		
			12/9/2013	2.80	3.84						**-0.036**		
			6/9/2014	2.67	3.57						**-0.032**		
			12/14/2009	5.99		6.58							**-0.008**
			3/9/2010	5.63		4.53							**0.015**
			5/18/2010	4.75		3.80							**0.013**
			7/28/2010	4.38		3.75							**0.008**
MW-12S		MW-12D	5/15/2012	3.64		2.00	-12.90			-87.93			**0.022**
			12/11/2012	3.37		2.82							**0.007**
			6/10/2013	4.53		2.72							**0.024**
			12/9/2013	4.36		3.41							**0.013**
			6/9/2014	4.79		3.31							**0.020**
			12/14/2009	4.87		4.67							**0.003**
			3/9/2010	4.32		4.58							**-0.004**
			5/25/2010	4.16		3.74							**0.007**
			7/28/2010	4.51		3.44							**0.017**
MW-14S		MW-14D	5/15/2012	5.67		3.73	-7.44			-69.69			**0.031**
			12/11/2012	4.95		3.81							**0.018**
			6/10/2013	5.75		4.26							**0.024**
			12/9/2013	5.31		4.53							**0.013**
			6/9/2014	5.76		4.83							**0.015**
			12/14/2009	5.08		4.39							**0.011**
			3/9/2010	4.27		4.37							**-0.002**
			5/25/2010	3.81		3.47							**0.005**
			7/28/2010	3.85		3.18							**0.010**
MW-15S		MW-15D	5/15/2012	4.27		3.19	-7.25			-72.55			**0.017**
			12/11/2012	4.10		3.68							**0.006**
			6/10/2013	4.87		3.95							**0.014**
			12/9/2013	4.65		4.18							**0.007**
			6/9/2014	5.31		4.56							**0.011**
			12/14/2009	7.25		5.57							**0.031**
			3/9/2010	7.13		5.60							**0.028**
			5/27/2010	5.97		7.59							**-0.030**
			7/28/2010	5.44		4.21							**0.023**
MW-16S		MW-16D	5/15/2012	4.73		3.79	-4.21			-58.87			**0.017**
			12/10/2012	4.11		4.14							**-0.001**
			6/10/2013	5.21		4.70							**0.009**
			12/9/2013	4.22		4.58							**-0.007**
			6/9/2014	6.25		5.37							**0.016**
			12/14/2009	6.27		4.74							**0.025**
			3/9/2010	8.61		6.45							**0.036**
			5/26/2010	7.06		8.28							**-0.020**
			7/28/2010	4.40		6.95							**-0.042**
MW-17S		MW-17D	12/10/2012	6.65		5.02	-3.16			-63.18			**0.027**
			6/10/2013	7.57		5.54							**0.034**
			12/9/2013	6.83		5.39							**0.024**
			6/9/2014	9.20		6.23							**0.049**

Well Set				Groundwater Elevation			Shallow	Intermediate		Deep	Vertical Gradient		
Shallow	Int.	Deep	Date	Shallow	Int.	Deep	BOS Elev.	TOS Elev.	BOS Elev.	TOS Elev.	Shallow to Int.	Int. to Deep	Shallow to Deep
			12/14/2009	11.02	7.69	6.69					**0.165**	**0.038**	**0.077**
			3/9/2010	11.19	10.74	6.67					**0.022**	**0.154**	**0.080**
			5/26/2010	9.66	12.21	8.35					**-0.127**	**0.146**	**0.023**
			7/28/2010	9.21	8.87	4.91					**0.017**	**0.150**	**0.076**
MW-19S	MW-19I	MW-19D	5/15/2012	7.60	7.36	4.47	3.56	-16.57	-26.57	-52.97	**0.012**	**0.109**	**0.055**
			12/10/2012	8.98	8.90	5.44					**0.004**	**0.131**	**0.063**
			6/10/2013	9.64	9.59	5.95					**0.002**	**0.138**	**0.065**
			12/9/2013	9.53	9.40	6.11					**0.006**	**0.125**	**0.060**
			6/9/2014	11.16	11.08	6.78					**0.004**	**0.163**	**0.077**
			12/14/2009	4.32	3.45	3.52					**0.044**	**-0.002**	**0.012**
			3/9/2010	4.37	2.61	2.67					**0.089**	**-0.002**	**0.026**
			5/18/2010	3.39	2.23	2.28					**0.058**	**-0.001**	**0.017**
			7/28/2010	3.01	1.85	1.89					**0.058**	**-0.001**	**0.017**
MW-20S	MW-20I	MW-20D	5/14/2012	2.84	2.82	2.84	-7.10	-26.98	-36.98	-72.32	**0.001**	**-0.001**	**0.000**
			12/11/2012	3.02	2.65	2.68					**0.019**	**-0.001**	**0.005**
			6/10/2013	3.63	2.33	2.74					**0.065**	**-0.012**	**0.014**
			12/9/2013	3.98	3.46	3.45					**0.026**	**0.000**	**0.008**
			6/9/2014	4.30	3.44	3.44					**0.043**	**0.000**	**0.013**
			12/14/2009	5.50		4.45							**0.019**
			3/9/2010	4.81		4.43							**0.007**
			5/25/2010	3.69		3.57							**0.002**
			7/28/2010	3.69		3.24							**0.008**
MW-25S		MW-25D	5/15/2012	4.01		3.18	-3.47			-58.77			**0.015**
			12/10/2012	3.18		3.48							**-0.005**
			6/10/2013	4.48		3.76							**0.013**
			12/9/2013	4.12		3.83							**0.005**
			6/9/2014	5.54		4.39							**0.021**
			12/14/2009	3.29		3.22							**0.001**
			3/9/2010	3.03		2.81							**0.003**
			5/18/2010	2.19		2.29							**-0.002**
			7/28/2010	1.99		1.86							**0.002**
MW-26S		MW-26D	5/15/2012	3.32		2.55	-7.57			-72.62			**0.012**
			12/11/2012	2.62		2.46							**0.002**
			6/11/2013	3.82		2.79							**0.016**
			12/9/2013	3.40		3.47							**-0.001**
			6/9/2014	3.94		3.62							**0.005**
			12/14/2009	7.64		4.68							**0.045**
			3/9/2010	7.46		5.08							**0.036**
			5/25/2010	5.86		7.07							**-0.018**
			7/28/2010	5.67		3.68							**0.030**
MW-30S		MW-30D	5/14/2012	5.60		3.69	-5.04			-70.60			**0.029**
			12/10/2012	5.93		4.32							**0.025**
			6/10/2013	6.97		4.67							**0.035**
			12/9/2013	6.86		4.90							**0.030**
			6/9/2014	8.01		5.33							**0.041**
			5/25/2010		2.85	5.94						**-0.098**	
			7/28/2010		2.67	2.70						**-0.001**	
			5/15/2012		2.82	3.01						**-0.006**	
	MW-41I	MW-32D	12/11/2012		3.45	3.63		-28.30	-38.34	-69.73		**-0.006**	
			6/10/2013		3.60	3.75						**-0.005**	
			12/9/2013		4.03	4.21						**-0.006**	
			6/9/2014		4.05	4.22						**-0.005**	
			5/24/2010	9.45	9.10						**0.010**		
			7/28/2010	9.32	5.60						**0.106**		
			5/14/2012	7.60	4.99						**0.074**		
MW-37S	MW-37I		12/10/2012	9.06	6.04		-10.72	-45.80	-60.83		**0.086**		
			6/10/2013	10.26	6.70						**0.101**		
			12/9/2013	10.06	6.63						**0.098**		
			6/9/2014	11.65	7.45						**0.120**		
			5/24/2010	1.49	2.81	2.85					**-0.088**	**-0.002**	**-0.027**
			7/28/2010	1.44	1.62	1.70					**-0.012**	**-0.004**	**-0.005**
			5/15/2012	3.53	2.37	2.33					**0.077**	**0.002**	**0.024**
MW-38S	MW-38I	MW-38D	12/11/2012	2.52	2.30	2.28	-19.17	-34.20	-49.19	-69.24	**0.015**	**0.001**	**0.005**
			6/10/2013	2.63	2.00	1.95					**0.042**	**0.002**	**0.014**
			12/9/2013	3.30	3.46	3.41					**-0.011**	**0.002**	**-0.002**
			6/9/2014	3.05	3.60	3.56					**-0.037**	**0.002**	**-0.010**
			5/24/2010	-0.01	2.70	2.61					**-0.113**	**0.005**	**-0.048**
			7/28/2010	0.67	0.86	0.98					**-0.008**	**-0.006**	**-0.006**
			5/15/2012	1.32	2.77	2.86					**-0.060**	**-0.005**	**-0.028**
MW-39S	MW-39I	MW-39D	12/11/2012	1.59	1.44	1.59	-14.08	-38.10	-48.15	-68.14	**0.006**	**-0.008**	**0.000**
			6/10/2013	0.23	0.94	1.18					**-0.030**	**-0.012**	**-0.018**
			12/9/2013	1.97	3.07	3.24					**-0.046**	**-0.009**	**-0.023**
			6/9/2014	1.29	3.26	3.07					**-0.082**	**0.010**	**-0.033**

Well Set				Groundwater Elevation			Shallow	Intermediate		Deep	Vertical Gradient		
Shallow	Int.	Deep	Date	Shallow	Int.	Deep	BOS Elev.	TOS Elev.	BOS Elev.	TOS Elev.	Shallow to Int.	Int. to Deep	Shallow to Deep
			5/25/2010	8.80	7.68						**0.075**		
			7/28/2010	5.81	5.78						**0.002**		
			5/15/2012	5.19	5.04						**0.010**		
MW-40S	MW-40I		12/10/2012	5.73	5.20		-13.35	-28.30	-43.31		**0.035**		
			6/10/2013	6.09	5.94						**0.010**		
			12/9/2013	5.58	5.45						**0.009**		
			6/9/2014	6.97	6.73						**0.016**		
			5/25/2010	3.57	3.28	3.59					**0.015**	**-0.009**	**0.000**
			7/28/2010	3.58	3.18	3.48					**0.021**	**-0.008**	**0.001**
			5/15/2012	3.57	2.87	2.93					**0.037**	**-0.002**	**0.009**
MW-44S	MW-44I	MW-44ID	12/11/2012	3.31	3.51	3.54	-11.82	-30.70	-45.74	-81.06	**-0.011**	**-0.001**	**-0.003**
			6/10/2013	4.61	3.62	3.66					**0.052**	**-0.001**	**0.014**
			12/9/2013	4.18	3.89	3.95					**0.015**	**-0.002**	**0.003**
			6/9/2014	4.60	4.12	4.18					**0.025**	**-0.002**	**0.006**
			5/25/2010	6.80	5.86	5.16					**0.062**	**0.027**	**0.029**
			7/28/2010	6.52	5.67	4.93					**0.056**	**0.029**	**0.028**
			5/15/2012	5.68	4.91	4.38					**0.051**	**0.021**	**0.023**
MW-48S	MW-48I	MW-48D	12/10/2012	6.53	5.35	4.87	-16.17	-31.26	-46.26	-71.99	**0.078**	**0.019**	**0.030**
			6/10/2013	6.87	5.95	5.32					**0.061**	**0.024**	**0.028**
			12/9/2013	6.74	5.67	5.24					**0.071**	**0.017**	**0.027**
			6/9/2014	7.32	6.63	5.99					**0.046**	**0.025**	**0.024**
			5/25/2010	7.55	7.38	7.05					**0.011**	**0.013**	**0.009**
			7/28/2010	4.59	4.13	3.76					**0.031**	**0.015**	**0.015**
			5/15/2012	4.52	3.83	3.58					**0.046**	**0.010**	**0.017**
MW-54S	MW-54I	MW-54D	12/10/2012	4.46	4.27	4.03	-16.18	-31.22	-46.22	-71.19	**0.013**	**0.010**	**0.008**
			6/10/2013	5.10	4.58	4.39					**0.035**	**0.008**	**0.013**
			12/9/2013	4.95	4.77	4.55					**0.012**	**0.009**	**0.007**
			6/9/2014	5.44	5.24	4.99					**0.013**	**0.010**	**0.008**
MW-55S	MW-55I	MW-55D	12/9/2013	2.43	3.16	3.14	-19.72	-34.93	-49.93	-69.69	**-0.048**	**0.001**	**-0.014**
			6/9/2014	1.81	3.58	3.39					**-0.116**	**0.010**	**-0.032**
			12/14/2009	8.46		3.11							**0.073**
			3/9/2010	8.34		5.96							**0.032**
			5/19/2010	7.31		5.26							**0.028**
			7/28/2010	6.89		4.88							**0.027**
POC-1S		POC-1D	5/15/2012	5.45		3.41	-6.34			-79.94			**0.028**
			12/10/2012	5.62		3.95							**0.023**
			6/10/2013	6.58		4.30							**0.031**
			12/9/2013	6.55		4.56							**0.027**
			6/9/2014	7.34		4.88							**0.033**
			12/14/2009	8.17		5.85							**0.033**
			3/9/2010	7.73		5.85							**0.027**
			5/19/2010	6.78		4.97							**0.026**
			7/28/2010	6.40		4.62							**0.025**
POC-2S		POC-2D	5/15/2012	5.12		3.16	-6.45			-77.25			**0.028**
			12/10/2012	5.14		2.81							**0.033**
			6/10/2013	6.18		4.03							**0.030**
			12/9/2013	6.05		4.37							**0.024**
			6/9/2014	6.88		4.59							**0.032**
			12/14/2009	8.33		5.81							**0.037**
			3/9/2010	7.54		5.71							**0.027**
			5/19/2010	6.77		4.96							**0.027**
			7/28/2010	6.48		4.58							**0.028**
POC-3S		POC-3D	5/15/2012	5.38		3.00	-4.74			-72.15			**0.035**
			12/10/2012	4.90		3.72							**0.018**
			6/10/2013	6.03		3.97							**0.031**
			12/9/2013	5.83		4.27							**0.023**
			6/9/2014	6.77		4.55							**0.033**
			12/14/2009	11.12		6.96							**0.061**
			3/9/2010	10.98		9.11							**0.028**
			5/17/2010	9.70		6.04							**0.054**
			7/28/2010	8.98		5.47							**0.052**
UP-1S		UP-1-D-R	5/15/2012	7.97		4.14	-1.11			-69.10			**0.056**
			12/10/2012	7.83		4.75							**0.045**
			6/10/2013	8.58		5.19							**0.050**
			12/9/2013	8.51		5.29							**0.047**
			6/9/2014	10.34		5.89							**0.065**

Note: All groundwater elevation data are reported in feet, and hydraulic gradient data reported in ft/ft.
Vertical Gradient=dh/dz
dh=Shallow Well's Water Elevation - Deep Well's Water Elevation
dz=Shallow Well's Screen Elevation - Deep Well's Screen Elevation
TOS = Top of Screen
BOS = Bottom of Screen
Negative vertical gradients signify upward potential for flow.
Positive vertical gradients signify downward potential for flow.

Horizontal Hydraulic Gradient Calculation
Surficial Aquifer

Well Set	Horizontal Distance Between Wells	Hydraulic Head Difference [1]		Horizontal Hydraulic Gradient
	Feet	Feet		Feet / Feet
Upper Unit - Shallow Wells MW-19S / MW-20S	4,404	6/9/14	6.86	0.0016
Upper Unit - Deep Wells MW-19D / MW-20D	4,404	6/9/14	3.34	0.0008

Groundwater Flow Velocity Calculations
Upper Unit of Surficial Aquifer

	Date		
Groundwater Elevations	6/9/14		
MW-19S	11.16	ft.	
MW-20S	4.3	ft.	
	6.86	ft.	=dh
Distance between wells:	4,404	ft.	= dl
Horiz. Hydraulic gradient (i) =	0.0016		= dh/dl
[1]K =	6	ft/day	
n_e =	0.25		
Avg. Linear Flow Velocity (V) =	0.040	ft/ day	= iK/n_e

Groundwater Flow Velocity Calculations
Lower Unit of Surficial Aquifer

	Date		
Groundwater Elevations	6/9/14		
MW-19D	6.78	ft.	
MW-20D	3.44	ft.	
	3.34	ft.	=dh
Distance between wells:	4,404	ft.	= dl
Horiz. Hydraulic gradient (i) =	0.0008		= dh/dl
[1]K =	6	ft/day	
n_e =	0.25		
Avg. Linear Flow Velocity (V) =	0.019	ft/ day	= iK/n_e

Notes:
1. Hydraulic conductivity value is based on reported range at the site.

Vertical Hydraulic Gradients
Lower Unit of Surficial Aquifer
Former Hercules Brunswick Facility
Brunswick, GA

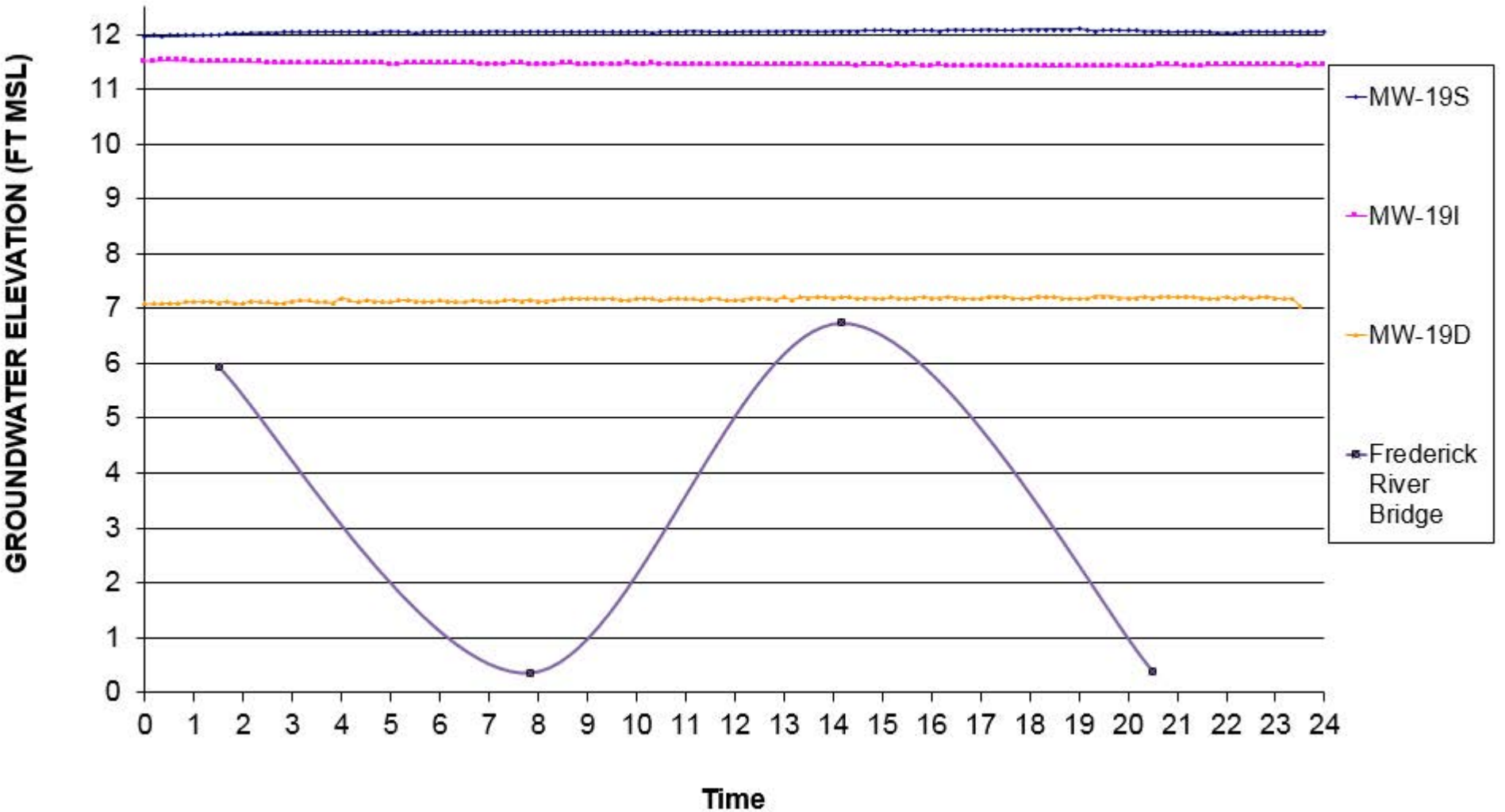
Well Set			Groundwater Elevation		Upper Unit	Lower Unit	Vertical Gradient
Deep	D. Deep	Date	Upper Unit	Lower Unit	BOS Elev.	TOS Elev.	Upper to Lower Unit
MW-9D	MW-33	6/9/2014	3.84	4.11	-77.70	-113.40	**-0.008**
MW-19D	MW-18	6/9/2014	6.78	2.80	-65.00	-104.40	**0.101**
MW-37I	MW-37D	6/9/2014	7.45	4.49	-60.80	-85.60	**0.119**
MW-44ID	MW-44D	6/9/2014	4.18	4.33	-91.10	-111.10	**-0.008**

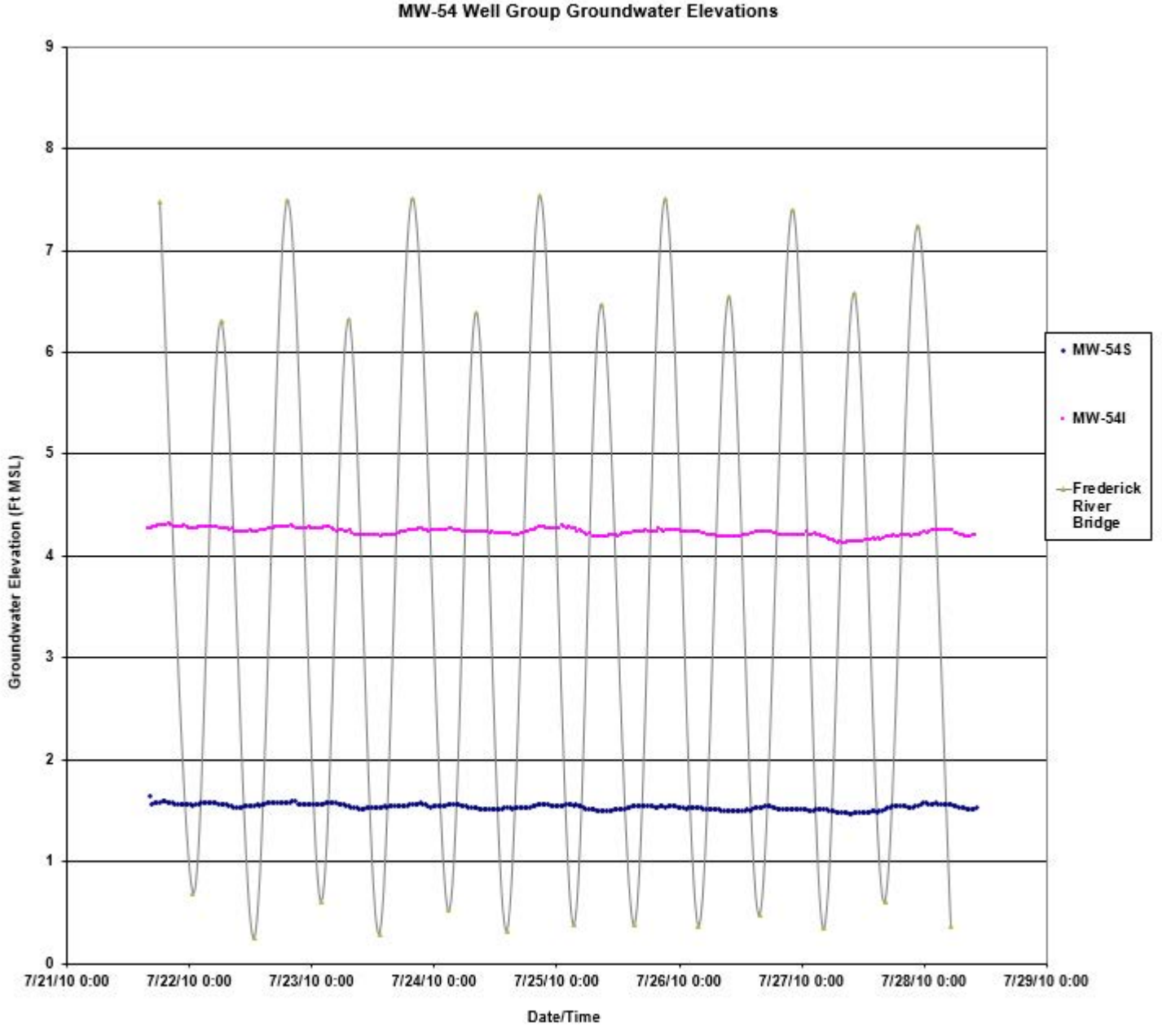
Note: All groundwater elevation data are reported in feet, and hydraulic gradient data reported in ft/ft.
Vertical Gradient=dh/dz
dh=Shallow Well's Water Elevation - Deep Well's Water Elevation
dz=Shallow Well's Screen Elevation - Deep Well's Screen Elevation
TOS = Top of Screen
BOS = Bottom of Screen
Negative vertical gradients signify upward flow.
Positive vertical gradients signify downward flow.

Appendix G

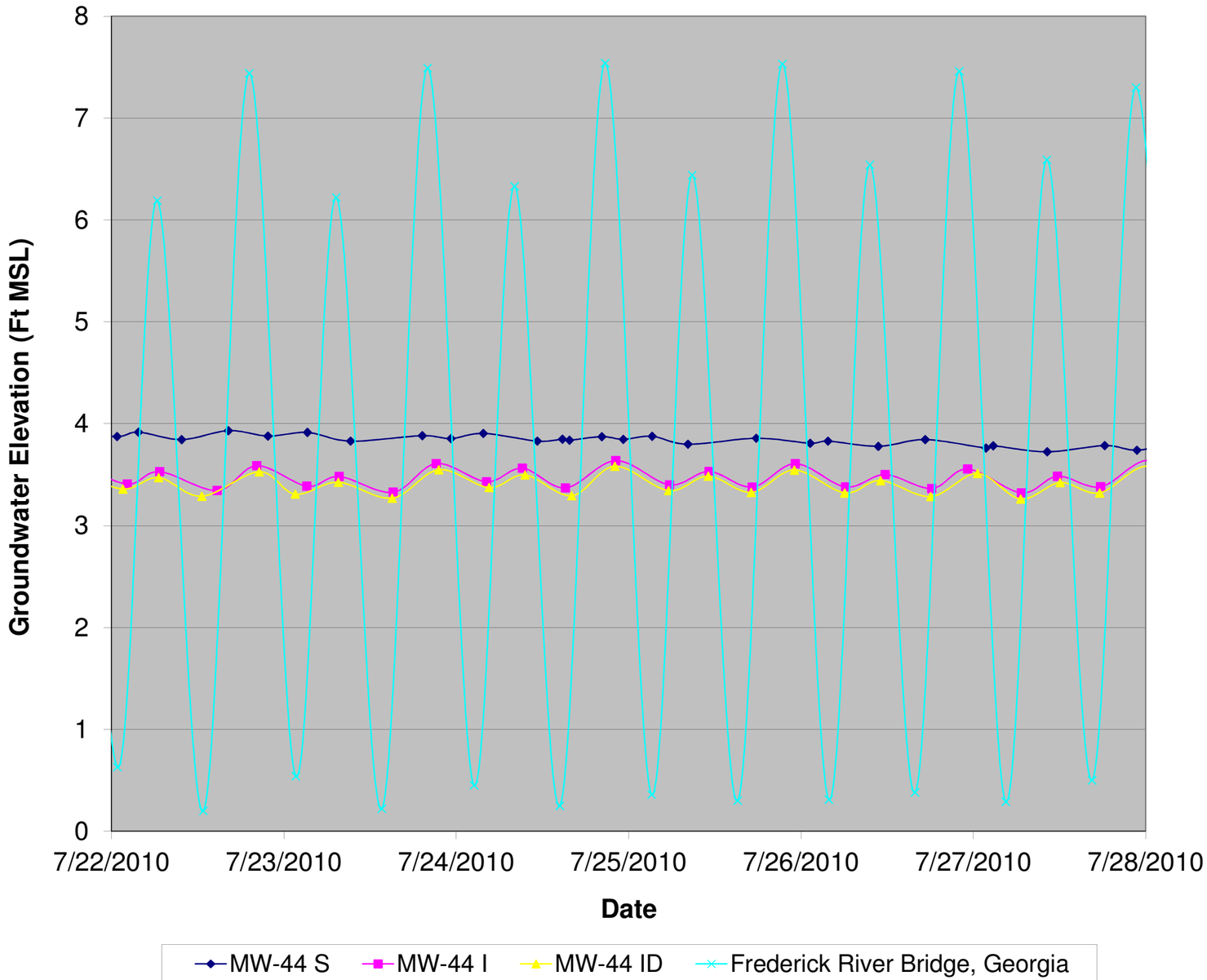
Tidal Influence Graphs

MW-19 Well Group Groundwater Elevations

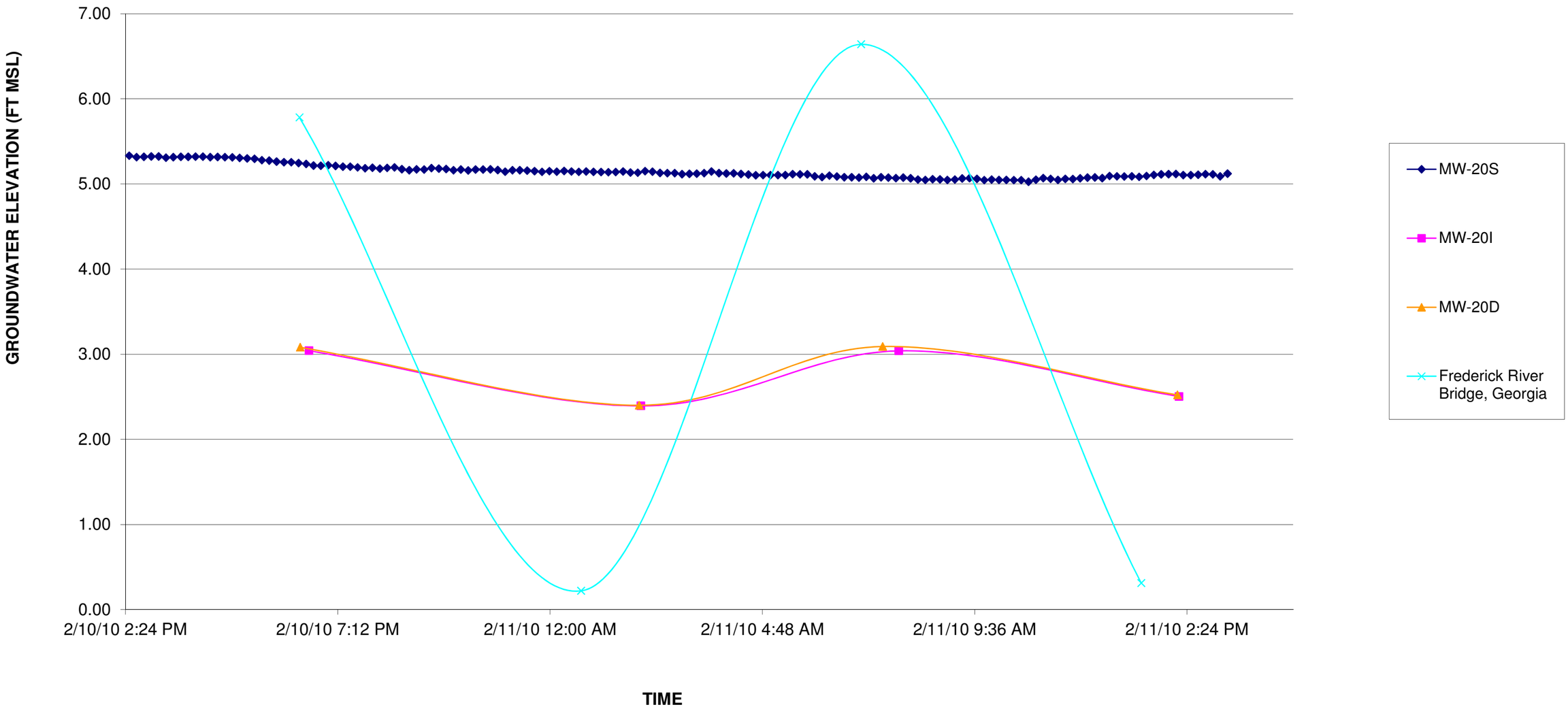


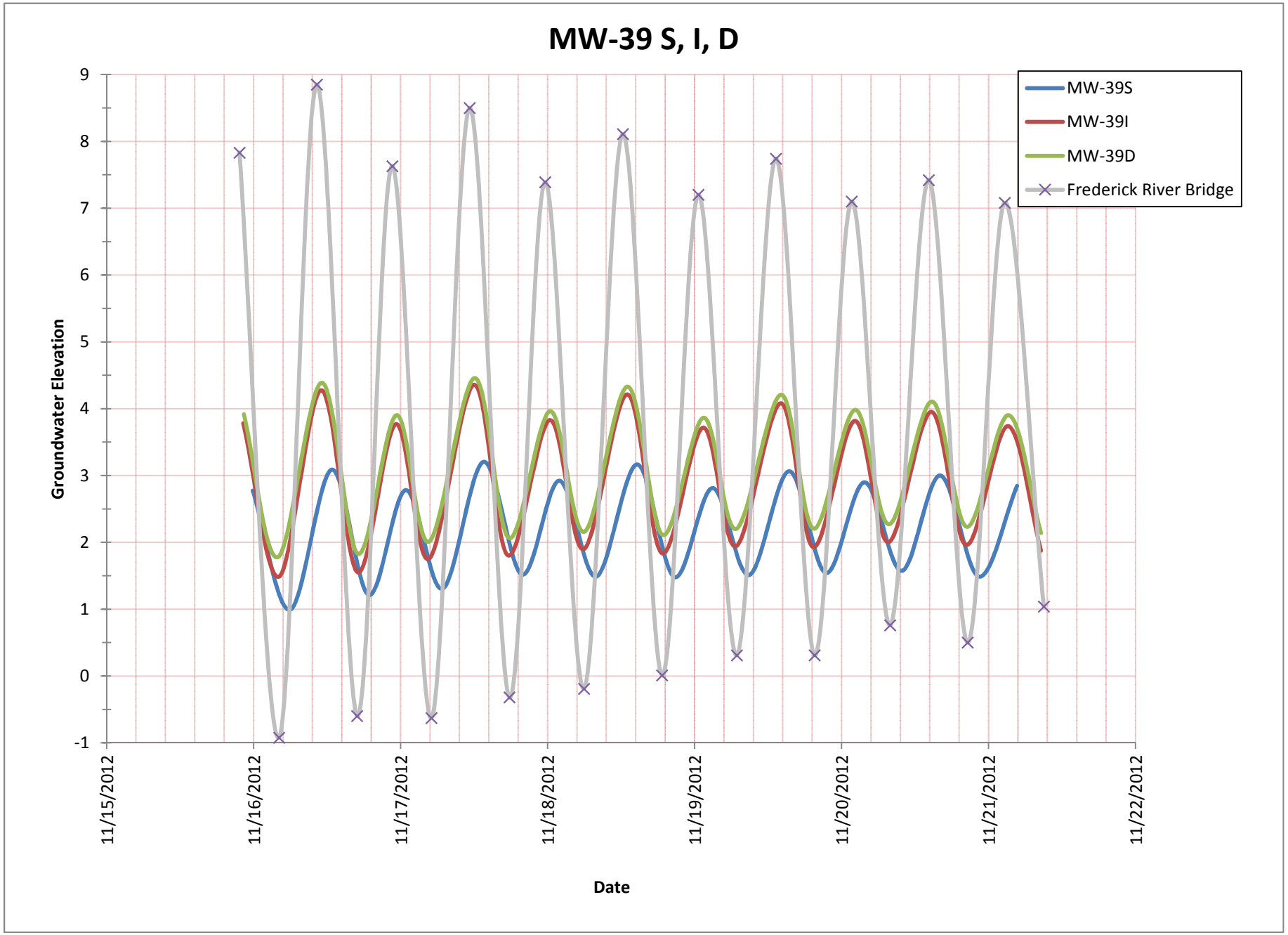

MW-54 Well Group Groundwater Elevations
Groundwater Elevation (Ft MSL)
9
8
7
6
5
4
3
2
1
0
7/21/10 0:00
7/22/10 0:00
7/23/10 0:00
7/24/10 0:00
7/25/10 0:00
7/26/10 0:00
7/27/10 0:00
7/28/10 0:00
7/29/10 0:00
Date/Time
MW-54S
MW-54I
Frederick River Bridge

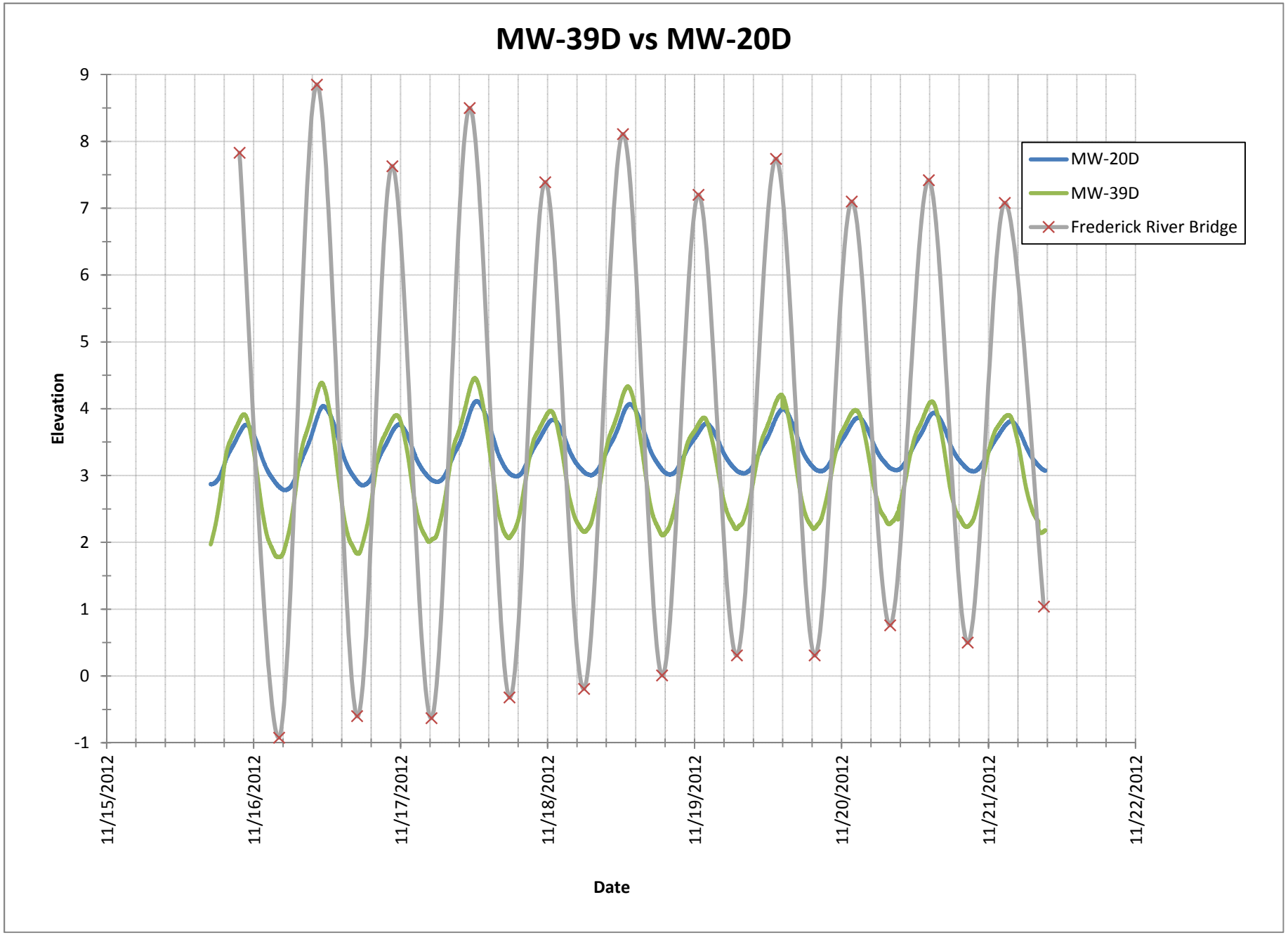
MW-44 Well Group Groundwater Elevations



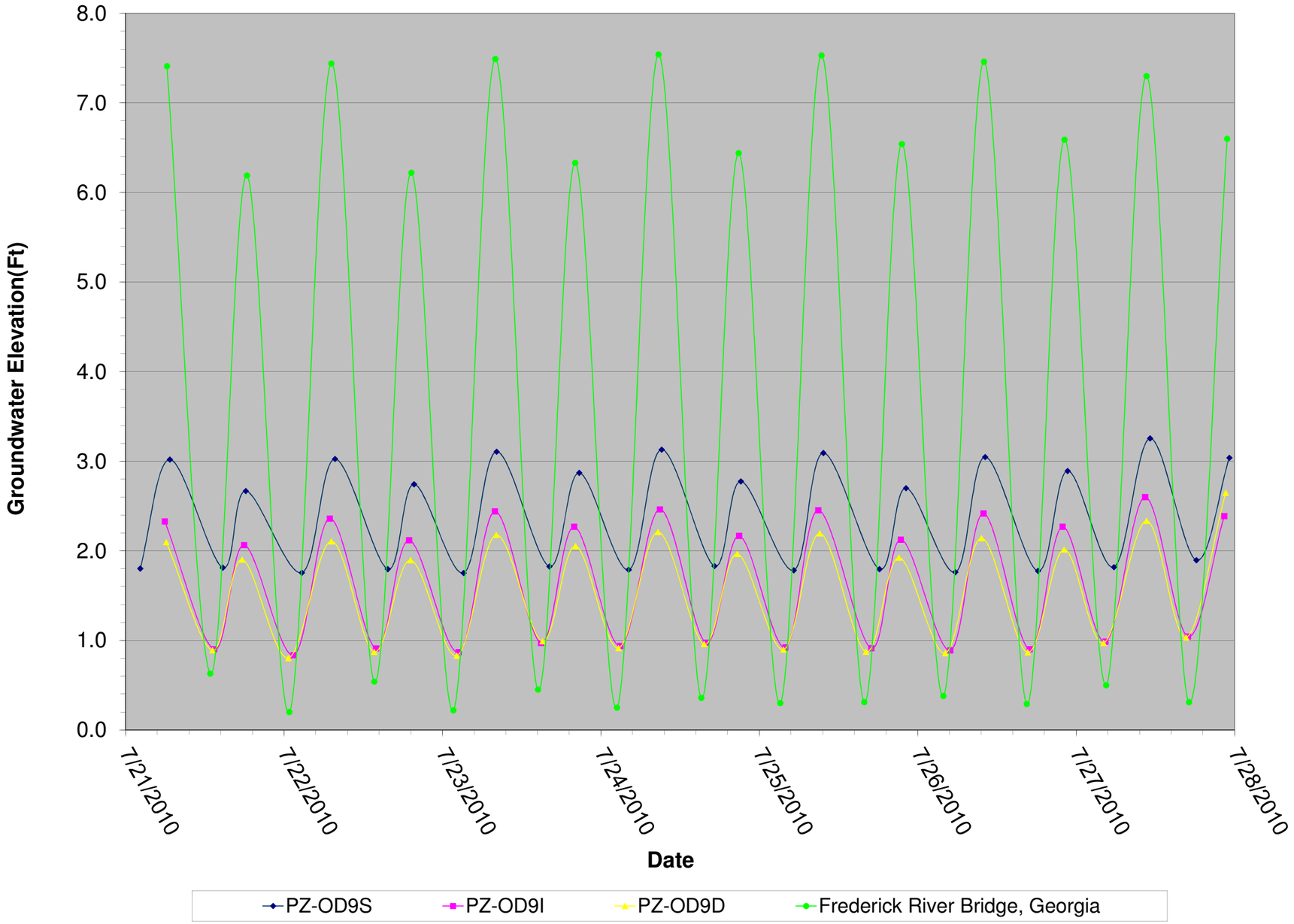
MW-20 GROUNDWATER ELEVATIONS



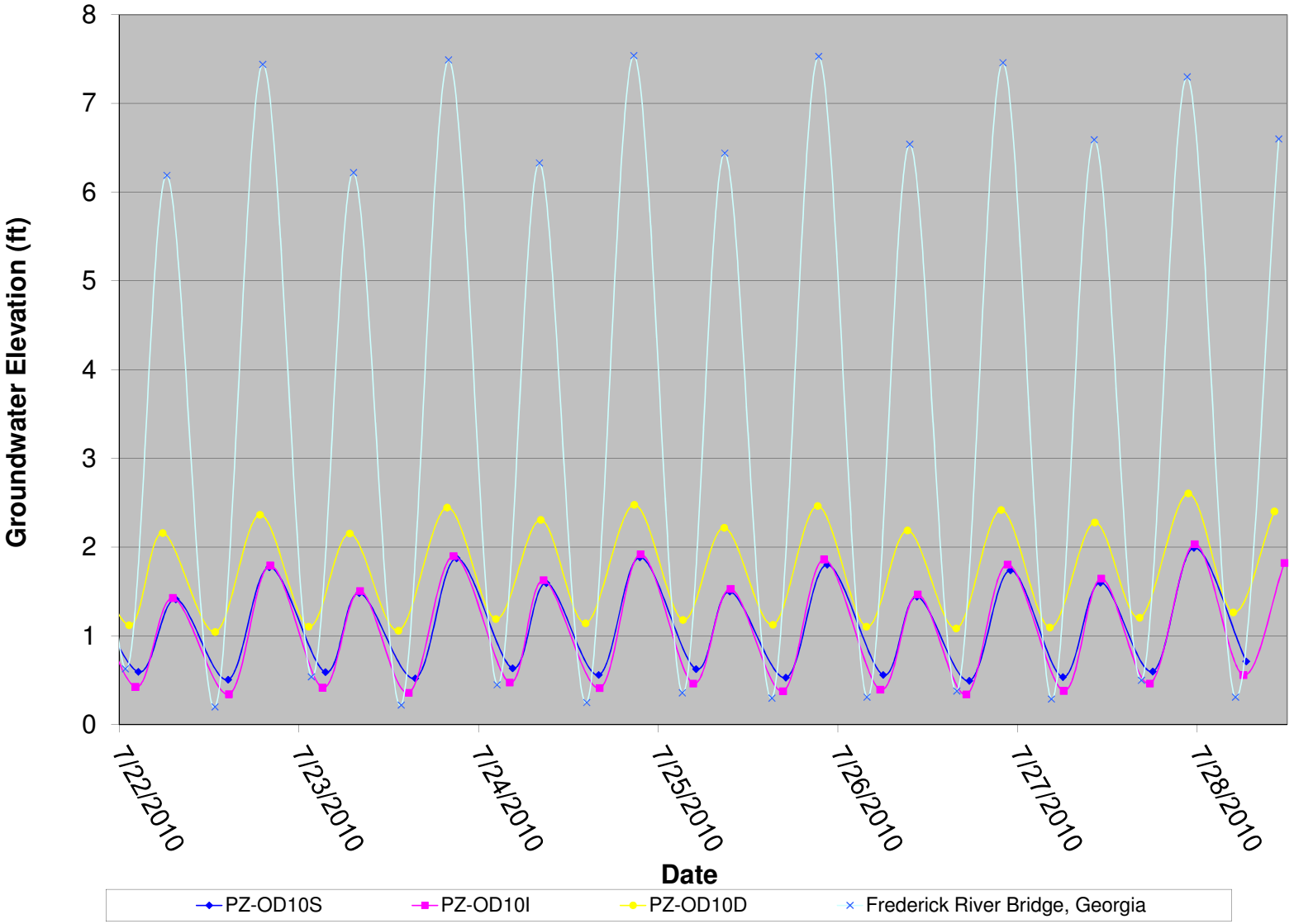

MW-39 S, I, D
MW-39S
MW-39I
MW-39D
Frederick River Bridge
Groundwater Elevation
9
8
7
6
5
4
3
2
1
0
-1
11/15/2012
11/16/2012
11/17/2012
11/18/2012
11/19/2012
11/20/2012
11/21/2012
11/22/2012
Date

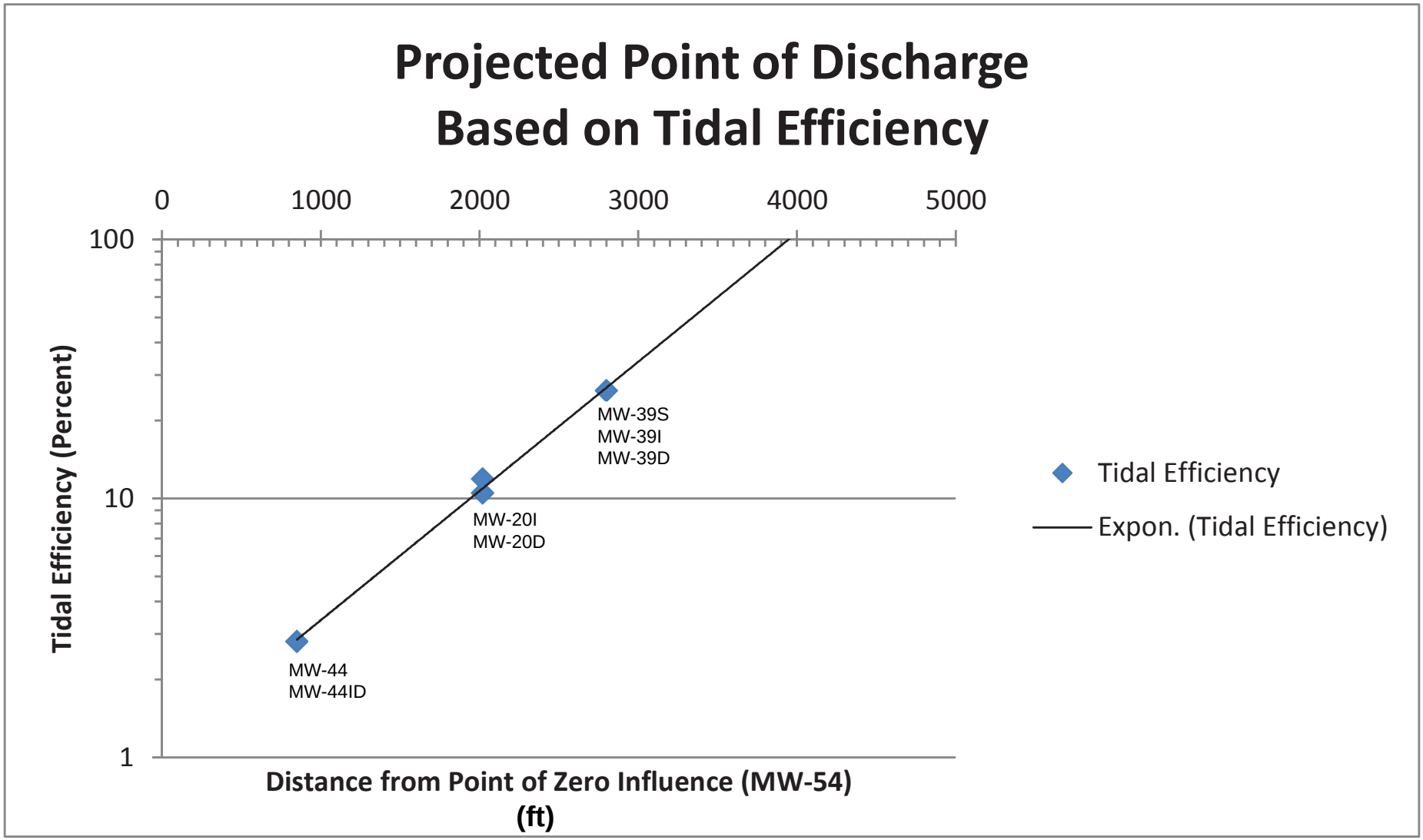

MW-39D vs MW-20D
Elevation
9
8
7
6
5
4
3
2
1
0
-1
11/15/2012
11/16/2012
11/17/2012
11/18/2012
11/19/2012
11/20/2012
11/21/2012
11/22/2012
Date
MW-20D
MW-39D
Frederick River Bridge

PZ-OD9 Well Group Groundwater Elevations



PZ-OD10 Well Group Groundwater Elevations




Projected Point of Discharge
Based on Tidal Efficiency
0
1000
2000
3000
4000
5000
100
10
1
Tidal Efficiency (Percent)
MW-39S
MW-39I
MW-39D
MW-20I
MW-20D
MW-44
MW-44ID
Tidal Efficiency
Expon. (Tidal Efficiency)
Distance from Point of Zero Influence (MW-54)
(ft)

Appendix H

Core Photographs

Photo 1. Core run 5 to 10 feet below ground surface at MW-55.

Photo 2. Core run 20 to 25 feet below ground surface at MW-55.

Photo 3. Core run 35 to 40 feet below ground surface at MW-55.

Photo 4. Core run 40 to 45 feet below ground surface at MW-55.

Photo 5. Core run 70 to 75 feet below ground surface at MW-55.

Photo 6. Core run 80 to 85 feet below ground surface at MW-55.

Appendix I

Historic Analytical Results

VOLATILE ORGANIC COMPOUNDS - MONITORING WELLS
FORMER HERCULES BRUNSWICK FACILITY
BRUNSWICK, GA

	Chemical Name:	1,1-Dichloroethane	1,1-Dichloroethene	1,2,3-Trichloropropane	1,2-Dichloropropane	2-Butanone (MEK)	Methyl Isobutyl Ketone (MIBK)	Acetone	Benzene	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroform	cis-1,2-Dichloroethene	Ethylbenzene	Methylene Chloride	Tetrachloroethene	Toluene	Vinyl chloride	Xylenes, Total
	Report Result Unit:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Well ID	Sampling Date																			
UP-1S	5/17/2010	--	<0.11	<0.41	<0.13	<1	<1	9.4J	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	<0.11	<1	<0.15	<0.33	<0.18	<0.2
	12/20/2010	--	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	<0.11	<1*	<0.15	<0.33	<0.18	<0.2
	6/21/2011	<0.25	<0.11	<0.41	<0.13	<1	<1	5.2J	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	<0.11	3.7JB	<0.15	<0.33	<0.18	<0.2
	12/13/2011	<0.25	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	<0.11	<1	<0.15	<0.33	<0.18	<0.2
	6/6/2012	<0.25	<0.11	<0.41	<0.13	<1	<1	5.2J	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	<0.11	<1	<0.15	<0.33	<0.18	<0.2
	12/11/2012	<0.25	<0.11	<0.41	<0.13	<1.0	<1.0	<5.0	<0.25	<0.60	<0.50	<0.25	<0.14	<0.15	<0.11	<1.0	<0.15	<0.33	<0.18	<0.20
	12/12/2013	<0.25	<0.11	<0.41	<0.13	<1.0	<1.0	<5.0	<0.25	<0.60	<0.50	<0.25	<0.14	<0.15	<0.11	<1.0	<0.15	<0.33	<0.18	<0.20
UP-1D(R)	5/17/2010	--	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	<0.11	<1	<0.15	<0.33	<0.18	<0.2
	12/20/2010	--	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	0.16J	<0.11	<1*	<0.15	<0.33	<0.18	<0.2
	6/21/2011	<0.25	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	<0.11	4.1JB	<0.15	<0.33	<0.18	<0.2
	12/13/2011	<0.25	<0.11	<0.41	<0.13	<1	<1	<5	0.3J	<0.6	<0.5	<0.25	<0.14	0.27J	<0.11	<1	<0.15	<0.33	<0.18	<0.2
	6/6/2012	<0.25	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	<0.11	<1	<0.15	<0.33	<0.18	<0.2
	12/11/2012	<0.25	<0.11	<0.41	<0.13	<1.0	<1.0	<5.0	<0.25	<0.60	<0.50	<0.25	<0.14	<0.15	<0.11	<1.0	<0.15	<0.33	<0.18	<0.20
	12/12/2013	<0.25	<0.11	<0.41	<0.13	<1.0	<1.0	<5.0	<0.25	<0.60	<0.50	<0.25	<0.14	<0.15	<0.11	<1.0	<0.15	<0.33	<0.18	<0.20
POC-1S	5/19/2010	--	0.73J	1.8	1.4	9.6J	6.9J	220	70	<0.6	<0.5	130	0.55J	3.7	14	<1	1.1	34	21	40
	12/20/2010	--	0.13J	1.3	0.83J	<1	<1	46	70	<0.6	<0.5	150	<0.14	5.3	20	<1*	<0.15	38	22	56
	6/21/2011	<0.25	0.27J	<0.41	0.66J	<1	<1	47	57	<0.6	<0.5	180	<0.14	3.1	18	3.7JB	<0.15	30	15	57
	12/15/2011	<0.25	<0.11	0.72J	0.49J	1.3J	<1	32	32	<0.6	<0.5	110	<0.14	1.7	14	<1	<0.15	22	11	37
	6/7/2012	<0.25	<0.11	0.52J	0.41J	<1	<1	61	22	<0.6	<0.5	87	<0.14	1.1	12	<1	<0.15	21	11	30
	12/13/2012	<2.4	<2.5	<2.3	<2.5	<26	<8.1	<27	28	<2.2	<1.8	110	3 J	<2.1	14	<1.6	<2.5	16	6.4 J	29 J
	6/11/2013	< 0.25	< 0.11	0.60 J	0.34 J	< 1.0	< 1.0	24 J	30	< 0.60	< 0.50	110	< 0.14	2.3	14	< 1.0	< 0.15	16	10	33
	12/12/2013	<0.25	<0.11	1.1	0.48 J	<1.0	<1.0	29	37	<0.60	<0.50	100	<0.14	2.1	12	<1.0	<0.15	14	14	33
	12/12/2013 - DUP-1	<0.25	<0.11	<0.41	<0.13	<1.0	<1.0	43	44	<0.60	<0.50	130	<0.14	2.8	15	<1.0	<0.15	16	17	40
POC-1D	5/18/2010	--	<0.11	<0.41	<0.13	<1	<1	<5	3.6	<0.6	<0.5	1	<0.14	<0.15	<0.11	<1	<0.15	<0.33	<0.18	<0.2
	12/20/2010	--	<0.11	<0.41	<0.13	<1	<1	<5	3.5	<0.6	<0.5	1.5	<0.14	0.25J	<0.11	<1*	<0.15	<0.33	<0.18	<0.2
	6/21/2011	<0.25	<0.11	<0.41	<0.13	<1	<1	<5	2.4	<0.6	<0.5	0.84J	<0.14	<0.15	<0.11	4.1JB	<0.15	<0.33	<0.18	<0.2
	12/15/2011	<0.25	<0.11	<0.41	<0.13	<1	<1	6.5J	3.1	<0.6	<0.5	1.2	<0.14	0.21J	<0.11	<1	<0.15	<0.33	<0.18	<0.2
	6/7/2012	<0.25	<0.11	<0.41	<0.13	<1	<1	<5	3.2	<0.6	<0.5	1.5	<0.14	<0.15	<0.11	<1	<0.15	<0.33	<0.18	<0.2
	12/13/2012	0.39 J	<0.25	<0.23	<0.25	<2.6	<0.81	<2.7	3.3	<0.22	<0.18	1.5	<0.23	<0.21	<0.19	<0.16	<0.25	<0.17	<0.18	0.18 J
	6/11/2013	< 0.25	< 0.11	< 0.41	< 0.13	< 1.0	< 1.0	6.3 J	1.7	< 0.60	< 0.50	0.75 J	< 0.14	< 0.15	< 0.11	< 1.0	< 0.15	< 0.33	< 0.18	< 0.20
	12/12/2013	<0.25	<0.11	<0.41	<0.13	<1.0	<1.0	<5.0	2.9	<0.60	<0.50	1.5	<0.14	<0.15	<0.11	<1.0	<0.15	<0.33	<0.18	<0.20
POC-2S	5/19/2010	<12	<5.5	<20	<6.5	<50	<50	250J	25J	<30	<25	260	550	<7.5	4400	<50	<7.5	170	<9	17000
	8/12/2010	<25	<11	<41	<13	<100	<100	<500	35J	<60	<50	300	300	<15	6100	<100	16J	200	<18	23000
	12/16/2010	--	10J	<20	<6.5	<50	<50	260J	32J	<30	<25	360	490	<7.5	5500	<50	12J	240	<9	21000
	2/2/2011	--	32J	<41	<13	<100	<100	<500	32J	<60	<50	420	690	<15	6100	<100	<15	180	<18	29000
	6/21/2011	<13	15J	<21	<6.5	<50	<50	370J	30J	<30	<25	350	680	8.1J	5200	210JB	8J	170	<9	23000
	12/15/2011	<13	11J	<21	<6.5	<50	<50	280J	37J	<30	49J	420	850	<7.5	7000	<50	13J	210	<9	27000
	6/8/2012	<13*	22J	<21	<6.5	<50	<50	<250	45J	<30	<25	390	940	<7.5	6200	<50	<7.5	210	<9	25000
	12/13/2012	<0.24	14	5.8	1.1	11 J	1.5 J	160 B	30	7.1	<0.18	380	970 B	3.2	8600	16	12	170	2	34000
	6/12/2013	< 63	< 28	< 100	< 33	< 250	< 250	< 1300	< 63	< 150	< 130	< 63	770	< 38	6400	< 250	< 38	170 J	< 45	29000
	12/13/2013	<63	<28	<100	<33	<250	<250	<1300	<63	<150	<130	410	780	<38	6300	<250	<38	160 J	<45	28000
POC-2D	5/19/2010	0.67J	0.38J	<0.41	<0.13	<1	<1	<5	13	<0.6	<0.5	14	0.71J	0.83J	0.18J	<1	<0.15	<0.33	<0.18	0.28J
	12/16/2010	--	0.56J	<0.41	0.47J	<1	<1	<5	22	<0.6	<0.5	20	<0.14	0.96J	0.35J	<1	<0.15	1.3	<0.18	2.1
	6/21/2011	0.87J	0.57J	<0.41	<0.13	<1	<1	<5	16	<0.6	<0.5	14	<0.14	0.67J	<0.11	3.8JB	<0.15	<0.33	<0.18	1.6J
	12/15/2011	0.68J	0.66J	<0.41	<0.13	<1	<1	<5	16	<0.6	<0.5	12	<0.14	0.65J	0.15J	<1	<0.15	<0.33	<0.18	11
	6/8/2012	0.74J *	0.65J	<0.41	0.27J	<1	<1	<5	15	<0.6	<0.5	11	<0.14	0.61J	<0.11	<1	<0.15	<0.33	<0.18	2.5
	12/13/2012	0.69 J	0.6 J	<0.23	0.25 J	<2.6	<0.81	<2.7	16	0.22 JB	<0.18	12	<0.23	0.45 J	<0.19	<0.16	<0.25	<0.17	<0.18	17
	6/12/2013	0.50 J	0.36 J	< 0.41	0.15 J	< 1.0	< 1.0	< 5.0	8.6	< 0.60	< 0.50	6.1	< 0.14	0.27 J	0.15 J	< 1.0	< 0.15	< 0.33	< 0.18	1.7 J
	12/13/2013	0.96 J	0.72 J	<0.41	0.30 J	<1.0	<1.0	<5.0	18	<0.60	<0.50	11	<0.14	0.34 J	<0.11	<1.0	<0.15	<0.33	<0.18	4.1
POC-3S	5/19/2010	--	16J	<20	<6.5	<50	<50	<250	120	<30	1100	360	2800	<7.5	2900	53J	<7.5	130	<9	15000B
	12/20/2010	--	<2.2	<8.2	<2.6	<20	<20	<100	8.4J	<12	<10	70	27	<3	730	<20	<3	19J	<3.6	3400
	6/23/2011	<5	<2.2	<8.2	<2.6	<20	<20	<100	<5	<12	<10	<5	<2.8	<3	330	52JB	<3	8.1J	<3.6	1200
	12/15/2011	<0.5	0.34J	<0.82	<0.26	<2	<2	11J	1.9J	<1.2	<1	21	<0.28	0.47J	210	<2	<0.3	3.1	<0.36	390
	6/8/2012	<0.25	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	<0.11	<1	<0.15	<0.33	<0.18	<0.2
	12/13/2012	<0.24	0.25 J	0.71 J	<0.25	<2.6	<0.81	<2.7	2.9	0.35 J	<0.18	36	0.46 J	0.48 J	330	<0.16	0.25 J	4.5	0.25 J	1000
	6/12/2013	< 0.25	< 0.11	< 0.41	< 0.13	< 1.0	< 1.0	6.8 J	0.50 J	< 0.60	< 0.50	4.3	< 0.14	< 0.15	5	< 1.0	< 0.15	< 0.33	< 0.18	12
	12/12/2013	<2.5	<1.1	<4.1	<1.3	<10	15 J	<50	6.9 J	<6.0	<5.0	42	<1.4	3.2 J	350	<10	<1.5	6.3 J	<1.8	1300
POC-3D	5/18/2010	--	.79J	<0.41	<0.13	<1	<1	<5	42	<0.6	<0.5	35	<0.14	1.2	0.51J	<1	<0.15	0.97J	0.7J	2.8
	12/20/2010	--	<0.11	<0.41	0.53J	<1	<1	12J	44	<0.6	<0.5	33	<0.14	0.27J	0.17J	<1	0.19J	0.44J	1.5	13
	6/23/2011	<0.25	<0.11	<0.41	0.48J	<1	<1	<5	38	<0.6	<0.5	31	<0.14	<0.15	0.15J	2.9JB	<0.15	0.67J	1.4	8.3
	12/15/2011	<0.25	<0.11	<0.41	<0.13	<1	<1	5.6J	42	<0.6	<0.5	32	<0.14	<0.15	0.22J	<1	<0.15	0.46J	1.9	30
	6/8/2012	<0.25*	0.15J	<0.41	0.44J	<1	<1	5.2J	43	<0.6	<0.5	30	<0.14	<0.15	<0.11	<1	<0.15	0.77J	1.9	4.3
	12/13/2012	<0.24	<0.25	<0.23	0.4 J	<2.6	<0.81	3.1 JB	40	0.23 JB	<0.18	32	<0.23	<0.21	<0.19	<0.16	<0.25	0.6 J	<0.18	10
	6/12/2013	< 0.25	< 0.11	< 0.41	0.29 J	< 1.0	< 1.0	< 5.0	23	< 0.60	< 0.50	20	< 0.14	< 0.15	0.55 J	< 1.0	< 0.15	< 0.33	0.81 J	4.8
	12/12/2013	<0.25	<0.11	<0.41	0.43 J	<1.0	<1.0	<5.0	47	<0.60	<0.50	38	<0.14	<0.15	0.43 J	<1.0	<0.15	0.65 J	1.9	9.6
MW-1S	6/3/2010	<0.25	<0.11	<0.41	0.62J	<1	<1	9.5J	35	<0.6	<0.5	110	<0.14	--	1.2	<1	<0.15	2.1	1.1	97
MW-1D	6/3/2010	<0.5	<0.22	<0.82	3	<2	<2	39J	210	<1.2	<1	230	<0.28	--	150	<2	<0.3	5.4	5.5	300
MW-2S	6/3/2010	<1.2	<0.55	<2	<0.65	<5	<5	<25	110	<3	<2.5	260	<0.7	--	280	<5	<0.75	11	<0.9	24
MW-2D	6/3/2010	<1.2	<0.55	<2	<0.65	<5	<5	<25	160	<3	<2.5	240	<0.7	--	350	<5	<0.75	3.2J	7.7	290
MW-3S	5/17/2010	--	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	<0.11	<1	<0.15	<0.33	<0.18	<0.2
	12/20/2010	--	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	<0.11	<1	<0.15	<0.33	<0.18	<0.2
	6/23/2011	<0.25*	< 0.11*	<0.41	<0.13	<1	<1	<5	<0.25	<0.6*	<0.5	<0.25	<0.14	<0.15	<0.11	3.9J*B	<0.15	<0.33	<0.18	<0.2
	12/15/2011	<0.25	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	0.57J	<0.14	<0.15	<0.11	<1	<0.15	<0.33	<0.18	<0.2
	6/6/2012	<0.25	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	0.83J	<0.14	<0.15	<0.11	<1	<0.15	<0.33	<0.18	<0.2

VOLATILE ORGANIC COMPOUNDS - MONITORING WELLS
FORMER HERCULES BRUNSWICK FACILITY
BRUNSWICK, GA

Well ID	Chemical Name: / Report Result Unit: / Sampling Date	1,1-Dichloroethane	1,1-Dichloroethene	1,2,3-Trichloropropane	1,2-Dichloropropane	2-Butanone (MEK)	Methyl Isobutyl Ketone (MIBK)	Acetone	Benzene	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroform	cis-1,2-Dichloroethene	Ethylbenzene	Methylene Chloride	Tetrachloroethene	Toluene	Vinyl chloride	Xylenes, Total
	Report Result Unit:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
MW-3D	5/17/2010	--	0.72J	<0.82	1.1J	<2	<2	<10	77	<1.2	<1	250	<0.28	1.1J	5.3	<2	<0.3	9.1	2.7	19
	12/20/2010	--	0.43J	<0.82	0.82J	<2	<2	<10	58	<1.2	<1	200	<0.28	0.84J	4.8	<0.2*	<0.3	8.4	3.5	22
	2/1/2011	--	<0.22	<0.82	0.79J	<2	<2	<10	59	<1.2	<1	210	<0.28	<0.3	6.2	<2	<0.3	8.8	5.5	23
	6/23/2011	<0.5*	< 0.22*	<0.82	<0.26	<2	<2	<10	3.8	<1.2*	<1	8.3	190	<0.3	<0.22	59*B	<0.3	<0.66	<0.36	0.42J
	12/15/2011	<0.5	<0.22	<0.82	<0.26	<2	<2	<10	40	<1.2	<1	160	<0.28	<0.3	1.4J	<2	<0.3	6.4	3.5	16
	6/6/2012	<0.5	0.39J	<0.82	1J	<2	<2	12J	65	<1.2	<1	250	<0.28	0.55J	4.8	<2	<0.3	10	3.5	21
	12/13/2012	0.58 J	<0.25	<0.23	0.46 J	<2.6	1.9 J	<2.7	14	<0.22	<0.18	51	<0.23	<0.21	0.31 J	<0.16	<0.25	1.8	0.95 J	5.4
	12/12/2013	<0.50	<0.22	<0.82	<0.26	<2.0	<2.0	<10	91	<1.2	<1.0	270	<0.28	0.85 J	5.8	<2.0	<0.30	14	6.9	22
MW-4	6/1/2010	<0.25	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	--	<0.11	<1	<0.15	<0.33	<0.18	<0.2
MW-5S	6/1/2010	<0.25	<0.11	<0.41	0.17J	<1	<1	<5	0.39J	<0.6	<0.5	<0.25	<0.14	--	<0.11	<1	<0.15	<0.33	<0.18	<0.2
MW-5I	6/1/2010	<0.25	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	--	<0.11	<1	<0.15	<0.33	<0.18	<0.2
MW-6	6/2/2010	<0.25	<0.11	<0.41	<0.13	<1	<1	<5	5.5	<2	<1	2.3	<0.14	--	0.19J	<1	<0.15	<0.33	<0.18	0.33J
MW-7	6/1/2010	<0.25	0.19J	<0.41	0.54J	<1	<1	5.4J	22	<0.6	<0.5	74	<0.14	--	0.14J	<1	<0.15	1.1	1	8
MW-8	6/2/2010	<0.25	<0.11	<0.41	0.47J	<1	<1	9.6J	180	<0.6	<0.5	200	<0.14	--	0.66J	<1	<0.15	1.3	5	3.8
MW-9S	5/18/2010	--	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	<0.11	<1	<0.15	<0.33	<0.18	<0.2
	12/17/2010	--	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	<0.11	<1	<0.15	<0.33	<0.18	<0.2
	6/22/2011	<1.3	<0.55	<2.1	<0.65	<5	<5	<25	<1.3	<3	<2.5	<1.3	<0.7	<0.75	<0.55	16JB	<0.75	<1.7	<0.9	<1
	12/16/2011	<0.25	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	<0.11	<1	<0.15	<0.33	<0.18	<0.2
	6/7/2012	<0.25	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	<0.11	<1	<0.15	<0.33	<0.18	<0.2
MW-9D	5/19/2010	--	<1.1	<4.1	<1.3	<10	<10	<50	900	<6	<5	750	<1.4	<1.5	4.6J	<10	<1.5	8.1J	<1.8	13JB
	12/17/2010	--	<2.2	<8.2	<2.6	<20	<20	<100	1400	<12	<10	1100	<2.8	<3	4.6J	<20	<3	9.3J	<3.6	7.8J
	2/2/2011	--	<2.2	<8.2	<2.6	<20	<20	<100	970	<12	<10	820	37	<3	2.8J	38J	<3	8.3J	<3.6	5J
	6/22/2011	<0.25	<0.11	<0.41	<0.13	<1	<1	<5	840D	<0.6	<0.5	720D	<0.14	<0.15	2.9	2.8JB	<0.15	4.9	<0.18	5
	12/16/2011	<2.5	<1.1	<4.1	1.9J	<10	<10	<50	780	<6	<5	490	<1.4	1.7J	2.7J	<10	2.3J	4.1J	<1.8	2.1J
	6/7/2012	<2.5	<1.1	<4.1	<1.3	<10	<10	<50	730	<6	<5	450	<1.4	<1.5	2.5J	<10	<1.5	4.2J	<1.8	<2
	12/13/2012	<0.24	<0.25	<0.23	<0.25	<2.6	<0.81	4.4 JB	16	<0.22	<0.18	18	<0.23	<0.21	0.48 J	<0.16	<0.25	<0.17	<0.18	1.3 J
	6/13/2013	< 0.25	< 0.11	< 0.41	< 0.13	< 1.0	< 1.0	7.3 J	49	< 0.60	< 0.50	36	< 0.14	< 0.15	0.22 J	< 1.0	< 0.15	< 0.33	< 0.18	< 0.20
	12/12/2013	<0.50	<0.22	<0.82	<0.26	<2.0	<2.0	16 J	320	<1.2	<1.0	200	<0.28	<0.30	1.0 J	<2.0	<0.30	2	<0.36	<0.40
MW-10S	5/18/2010	--	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	<0.11	<1	<0.15	<0.33	<0.18	<0.2
	12/17/2010	--	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	<0.11	<1	<0.15	<0.33	<0.18	<0.2
	6/23/2011	<0.25*	<0.11*	<0.41	<0.13	<1	<1	<5	<0.25	<0.6*	<0.5	<0.25	<0.14	<0.15	<0.11	4J*B	<0.15	<0.33	<0.18	<0.2
	12/16/2011	<0.25	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	<0.11	<1	<0.15	<0.33	<0.18	<0.2
	6/8/2012	<0.25*	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	<0.11	<1	<0.15	<0.33	<0.18	<0.2
MW-10D	5/19/2010	--	<55	<200	<65	<500	<500	<2500	910	<300	<250	1900	44000	<75	71J	10000	<75	<160	<90	250JB
	7/29/2010	--	<11	<41	<13	<100	<100	<500	780	<60	<50	1700	41000D	<15	19J	8800	27J	70J	<18	100J
	12/17/2010	--	<55	<200	<65	<500	<500	<2500	910	<300	<250	1900	42000	<75	<55	9500	<75	<160	<90	150J
	2/2/2011	--	<55	<200	<65	<500	<500	<2500	970	<300	<250	2100	45000	<75	<55	11000	<75	<160	<90	150J
	6/23/2011**	<130*	<55*	<210	<65	<500	<500	<2500	950	<300*	<250	1900	41000	<75	<55	13000*B	<75	<170	<90	<100
	12/16/2011	<130	<55	<210	<65	<500	<500	<2500	1200	<300	<250	2300	50000	<75	<55	11000	<75	190J	<90	200J
	6/8/2012	<130	<55	<210	<65	<500	<500	<2500	1000	<300	<250	2100	46000	<75	<55	12000	<75	<170	<90	180J
	12/13/2012	<0.24	0.89 J	0.43 J	<0.25	<2.6	<0.81	14 JB	32	0.43 J	<0.18	130	20000 B	<0.21	1.1	230 J	5.6	3.1	0.22 J	7.9
	6/13/2013	< 130	< 55	< 210	< 65	< 500	< 500	< 2500	1000	< 300	< 250	2300	51000	< 75	< 55	8800	< 75	< 170	< 90	140 J
	12/12/2013	<130	<55	<210	<65	<500	<500	<2500	930	<300	<250	2200	52000	<75	<55	7500	<75	<170	<90	<100
MW-11S	5/18/2010	--	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	<0.11	<1	<0.15	<0.33	<0.18	<0.2
	12/17/2010	--	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	<0.11	<1	<0.15	<0.33	<0.18	<0.2
	6/22/2011	<0.25	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	<0.11	2.1JB	<0.15	<0.33	<0.18	<0.2
	12/16/2011	<0.25	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	<0.11	<1	<0.15	<0.33	<0.18	<0.2
	6/6/2012	<0.25	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	<0.11	<1	<0.15	<0.33	<0.18	<0.2
MW-11D	5/18/2010	--	<0.11	<0.41	<0.13	<1	<1	<5	2.1	<0.6	<0.5	9.1	<0.14	<0.15	<0.11	<1	<0.15	<0.33	<0.18	<0.2
	12/17/2010	--	<0.11	<0.41	<0.13	<1	<1	<5	0.78J	<0.6	<0.5	4.9	<0.14	<0.15	<0.11	<1	<0.15	<0.33	<0.18	<0.2
	6/22/2011	<0.25	<0.11	<0.41	<0.13	<1	<1	<5	0.38J	<0.6	<0.5	3.4	<0.14	<0.15	<0.11	1.9JB	<0.15	<0.33	0.2J	<0.2
	12/16/2011	<0.25	<0.11	<0.41	<0.13	<1	<1	<5	0.39J	<0.6	<0.5	5.4	<0.14	<0.15	<0.11	<1	<0.15	<0.33	0.27J	<0.2
	6/6/2012	<0.25	<0.11	<0.41	<0.13	<1	<1	14J	<0.25	<0.6	<0.5	1.9	<0.14	<0.15	<0.11	<1	<0.15	<0.33	0.21J	<0.2
	12/12/2012	<0.25	<0.11	<0.41	<0.13	<1.0	<1.0	<5.0 *	0.28 J	<0.60	<0.50	4.2	<0.14	<0.15	<0.11	<1.0	<0.15	<0.33 *	0.37 J	<0.20
	6/11/2013	< 0.25	< 0.11	< 0.41	< 0.13	< 1.0	< 1.0	9.0 J	< 0.25	< 0.60	< 0.50	1.9	< 0.14	< 0.15	< 0.11	< 1.0	< 0.15	< 0.33	< 0.18	< 0.20
	12/11/2013	<0.25	<0.11	<0.41	<0.13	<1.0	<1.0	<5.0	<0.25	<0.60	<0.50	4.6	<0.14	<0.15	<0.11	<1.0	<0.15	<0.33	<0.18	<0.20
MW-12S	5/18/2010	--	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	<0.11	<1	<0.15	<0.33	<0.18	<0.2
	12/20/2010	--	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	<0.11	<1*	<0.15	<0.33	<0.18	<0.2
	6/22/2011	<0.25	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	<0.11	2JB	<0.15	<0.33	<0.18	<0.2
	12/15/2011	<0.25	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	<0.11	<1	<0.15	<0.33	<0.18	<0.2
	6/7/2012	<0.25	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	<0.11	<1	<0.15	<0.33	<0.18	<0.2
MW-12D	5/18/2010	--	<0.11	<0.41	0.64J	<1	<1	<5	17	<0.6	<0.5	5.6	<0.14	1.1	0.3J	<1	<0.15	1.6	<0.18	0.53J
	12/20/2010	--	<0.11	<0.41	1.1	<1	<1	<5	33	<0.6	<0.5	17	<0.14	1.9	0.84J	<1 *	<0.15	3	<0.18	2.1
	6/22/2011	<0.25	<0.11	<0.41	0.7J	<1	<1	<5	19	<0.6	<0.5	6.8	<0.14	0.56J	0.43J	2.1JB	<0.15	1.8	0.71J	1.1J
	12/15/2011	<0.25	<0.11	<0.41	0.64J	<1	<1	<5	18	<0.6	<0.5	6	<0.14	0.18J	0.32J	<1	<0.15	1.7	0.96J	0.6J
	6/7/2012	<0.25	<0.11	<0.41	0.54J	<1	<1	<5	14	<0.6	<0.5	5.2	<0.14	<0.15	0.24J	<1	<0.15	1.4	0.56J	0.48J
	12/12/2012	<0.25	<0.11	<0.41	<0.13	<1.0	<1.0	<5.0 *	1	<0.60	<0.50	0.54 J	<0.14	<0.15	<0.11	<1.0	<0.15	<0.33 *	<0.18	<0.20
	6/11/2013	< 0.25	< 0.11	< 0.41	0.38 J	< 1.0	< 1.0	5.9 J	11	< 0.60	< 0.50	4	< 0.14	< 0.15	0.17 J	< 1.0	< 0.15	1.2	0.66 J	0.37 J
	12/11/2013	<0.25	<0.11	<0.41	0.52 J	<1.0	<1.0	<5.0	15	<0.60	<0.50	5.3	<0.14	<0.15	<0.11	<1.0	<0.15	1.3	0.76 J	<0.20
MW-13	6/2/2010	<0.25	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	--	<0.11	<1	<0.15	<0.33	<0.18	<0.2

VOLATILE ORGANIC COMPOUNDS - MONITORING WELLS
FORMER HERCULES BRUNSWICK FACILITY
BRUNSWICK, GA

Well ID	Chemical Name:	1,1-Dichloroethane	1,1-Dichloroethene	1,2,3-Trichloropropane	1,2-Dichloropropane	2-Butanone (MEK)	Methyl Isobutyl Ketone (MIBK)	Acetone	Benzene	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroform	cis-1,2-Dichloroethene	Ethylbenzene	Methylene Chloride	Tetrachloroethene	Toluene	Vinyl chloride	Xylenes, Total
	Report Result Unit:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
	Sampling Date																			
MW-14S	6/3/2010	<0.25	<0.11	<0.41	<0.13	<1	<1	59	<0.25	<0.6	<0.5	<0.25	<0.14	--	<0.11	<1	<0.15	<0.33	<0.18	<0.2
	12/20/2010	--	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.50	<0.25	<0.14	<0.15	0.56J	<1.0	<0.15	<0.33	<0.18	<0.2
	6/23/2011	<0.25*	<0.11*	<0.41	<0.13	<1	<1	<5	<0.25	<0.6*	<0.5	<0.25	<0.14	<0.15	<0.11	3.9J*B	<0.15	<0.33	<0.18	<0.2
	12/16/2011	<0.25	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	<0.11	<1	<0.15	<0.33	<0.18	<0.2
MW-14D	6/3/2010	<0.25	<0.11	<0.41	<0.13	<1	<1	<5	5.2	<0.6	<0.5	<0.25	<0.14	--	<0.11	<1	<0.15	<0.33	<0.18	<0.2
	12/20/2010	--	<0.11	<0.41	0.20J	<1.0	<1.0	<5.0	110	<0.6	<0.5	0.55J	<0.14	<0.15	0.23J	<1	<0.15	<0.33	<0.18	<0.2
	6/23/2011	<0.25*	< 0.11	<0.41	0.16J	<1	<1	<5	7.1	<0.6	<0.5	3.7	0.3J	0.18J	<0.11	3.9J*B	<0.15	<0.33	<0.18	0.61J
	12/16/2011	<0.25	<0.11	<0.41	0.18J	<1	<1	<5	120	<0.6	<0.5	0.43J	<0.14	<0.15	0.26J	<1	<0.15	<0.33	<0.18	<0.2
	6/8/2012	<0.25*	<0.11	<0.41	0.19J	<1	<1	6J	150	<0.6	<0.5	0.47J	<0.14	<0.15	0.3J	<1	<0.15	<0.33	<0.18	0.28J
	12/13/2012	<0.24	<0.25	<0.23	<0.25	<2.6	<0.81	<2.7	110	<0.22	<0.18	0.33 J	<0.23	<0.21	0.25 J	<0.16	<0.25	0.2 J	<0.18	0.22 J
	12/13/2013	<0.25	<0.11	<0.41	<0.13	<1.0	<1.0	<5.0	140	<0.60	<0.50	0.62 J	<0.14	<0.15	0.28 J	<1.0	<0.15	<0.33	<0.18	<0.20
MW-15S	6/3/2010	<0.25	<0.11	<0.41	<0.13	<1	<1	<5	0.66J	<0.6	<0.5	<0.25	<0.14	--	<0.11	<1	<0.15	<0.33	<0.18	<0.2
MW-15D	6/8/2010	<12	<5.5	<20	<6.5	<50	140J	310J	3000	<30	<50	1600	2500	--	380	2700	9.7J	1000	<9	1800
MW-16S	5/27/2010	<0.25	<0.11	<0.41	<0.13	<1	<1	18J	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	<0.11	<1*	<0.15	<0.33	<0.18	<0.2
MW-16D	5/27/2010	<0.25	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	--	<0.11	<1*	<0.15	<0.33	<0.18	<0.2
MW-17S	5/26/2010	<0.25	<0.11	<0.41	<0.13	<1	<1	34	<0.25	<0.6	<0.5	<0.25	<0.14	--	<0.11*	<1	<0.15	<0.33	<0.18	<0.2
MW-17D	5/26/2010	<0.25	<0.11	<0.41	<0.13	14	1.8J	91	<0.25	<0.6	<0.5	<0.25	<0.14	--	<0.11	<1*	<0.15	1.2	<0.18	<0.2
MW-18	5/26/2010	<0.25	<0.11	<0.41	<0.13	<1	<1	150	<0.25	<0.6	<0.5	<0.25	<0.14	--	<0.11	<1*	<0.15	<0.33	<0.18	<0.2
MW-19S	5/26/2010	<0.25	<0.11	<0.41	<0.13	<1	<1	12J	<0.25	<0.6	<0.5	<0.25	<0.14	--	<0.11	<1*	<0.15	<0.33	<0.18	<0.2
	12/15/2011	<0.25	<0.11	<0.41	<0.13	<1	<1	5.1J	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	<0.11	<1	<0.15	<0.33	<0.18	<0.2
MW-19I	5/26/2010	<0.25	<0.11	<0.41	<0.13	<1	<1	6.4J	<0.25	<0.6	<0.5	<0.25	<0.14	--	<0.11	<1*	<0.15	<0.33	<0.18	<0.2
	12/15/2011	<0.25	<0.11	<0.41	<0.13	<1	<1	6.5J	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	<0.11	<1	<0.15	<0.33	<0.18	<0.2
MW-19D	5/26/2010	<1.2	<0.55	<2	<0.65	<5	<5	1100	<1.2	<3	<2.5	<1.2	<0.7	--	<0.55	<5*	<0.75	<1.6	<0.9	<1
	12/15/2011	<0.25	<0.11	<0.41	<0.13	<1	<1	10J	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	<0.11	<1	<0.15	<0.33	<0.18	<0.2
MW-20S	5/18/2010	--	<0.11	<0.41	<0.13	<1	<1	11J	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	<0.11	<1	<0.15	<0.33	<0.18	<0.2
	6/2/2010	<0.25	<0.11	<0.41	<0.13	<1	<1	21J	<0.25	<0.6	<0.5	<0.25	<0.14	--	<0.11	<1	<0.15	<0.33	<0.18	<0.2
	12/16/2010	--	<0.11	<0.41	<0.13	<1	<1	14J	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	<0.11	<1	<0.15	<0.33	<0.18	<0.2
	6/22/2011	<0.25	<0.11	<0.41	<0.13	<1	<1	5.7J	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	<0.11	2.1JB	<0.15	<0.33	<0.18	<0.2
	12/14/2011	<0.25	<0.11	<0.41	<0.13	2.9J	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	<0.11	<1	<0.15	<0.33	<0.18	<0.2
	6/6/2012	<0.25	<0.11	<0.41	<0.13	<1	<1	23J	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	<0.11	<1	<0.15	<0.33	<0.18	<0.2
MW-20I	5/18/2010	--	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	<0.11	<1	<0.15	<0.33	<0.18	<0.2
	6/2/2010	<0.25	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	--	<0.11	<1	<0.15	<0.33	<0.18	<0.2
	12/16/2010	--	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	<0.11	<1	<0.15	<0.33	<0.18	<0.2
	6/22/2011	<0.25	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	<0.11	2JB	<0.15	<0.33	<0.18	<0.2
	12/14/2011	<0.25	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	<0.11	<1	<0.15	<0.33	<0.18	<0.2
	6/6/2012	<0.25	<0.11	<0.41	<0.13	<1	<1	9.7J	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	<0.11	<1	<0.15	<0.33	<0.18	<0.2
	12/12/2012	<0.25	<0.11	<0.41	<0.13	<1.0	<1.0	<5.0	<0.25	<0.60	<0.50	<0.25	<0.14	<0.15	<0.11	<1.0	<0.15	<0.33	<0.18	<0.20
	12/10/2013	<0.25	<0.11	<0.41	<0.13	<1.0	<1.0	<5.0	<0.25	<0.60	<0.50	<0.25	<0.14	<0.15	<0.11	<1.0	<0.15	<0.33	<0.18	<0.20
MW-20D	5/18/2010	--	<0.11	<0.41	<0.13	<1	<1	<5	48	<0.6	<0.5	46	<0.14	0.54J	0.37J	<1	<0.15	0.37J	<0.18	0.61J
	6/2/2010	<1	<0.44	<1.6	<0.52	<4	<4	<20	320	<2.4	<2	250	<0.56	--	2.2J	<4	<0.6	3J	<0.72	6.8J
	12/16/2010	--	<0.11	<0.41	0.26J	<1	<1	7J	620D	<0.6	<0.5	520D	<0.14	5.2	4.2	<1	<0.15	7.1	6.4	14
	6/22/2011	<1.3	<0.55	<2.1	<0.65	<5	<5	<25	330	<3	<2.5	300	<0.7	2.4J	2.5J	<5	<0.75	4.2J	2.6J	7.4J
	12/14/2011	<1.3	<0.55	<2.1	<0.65	<5	<5	<25	660	<3	<2.5	710	<0.7	5.3	5.8	<5	<0.75	5.4	6.4	14
	6/6/2012	<1.3	<0.55	<2.1	<0.65	<5	<5	<25	340	<3	<2.5	250	<0.7	1.9J	1.7J	<5	<0.75	3.3J	2.7J	3.9J
	12/12/2012	<1.3	<0.55	<2.1	<0.65	<5.0	<5.0	<25 *	590	<3.0	<2.5	540	<0.70	<0.75	4.4 J	<5.0	<0.75	3.2 J*	7.4	7.7 J
	6/13/2013	< 1.3	< 0.55	< 2.1	< 0.65	< 5.0	< 5.0	< 25	720	< 3.0	< 2.5	810	< 0.70	< 0.75	5.7	< 5.0	< 0.75	5.2	7.8	9.2 J
	12/13/2013	<5.0	<2.2	<8.2	<2.6	<20	<20	<100	1100	<12	<10	1500	<2.8	<3.0	15 J	23 J	<3.0	28	16 J	34 J
MW-21	5/18/2010	--	<5.5	<20	<6.5	<50	<50	<250	1800	<30	<25	<12	<7	<7.5	<5.5	<50	<7.5	690	<9	<10
MW-22	5/18/2010	--	<22	<82	<26	<200	1300J	<1000	36000	<120	<100	<50	<28	<30	48J	<200	<30	6100	<36	56J
MW-23	5/18/2010	--	<5.5	<20	<6.5	<50	590	<250	4400	<30	<25	<12	<7	<7.5	24J	<50	<7.5	1100	<9	30J
MW-24	5/18/2010	--	<11	<41	<13	<100	1900	1900J	18000	<60	<50	<25	<14	<15	26J	<100	<15	3200	<18	42J
MW-25S	6/3/2010	<0.25	<0.11	<0.41	<0.13	<1	<1	12J	<0.25	<0.6	<0.5	<0.25	<0.14	--	0.35J	<1	<0.15	0.57J	<0.18	45
MW-25D	6/3/2010	<0.25	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	--	<0.11	<1	<0.15	<0.33	<0.18	<0.2

VOLATILE ORGANIC COMPOUNDS - MONITORING WELLS
FORMER HERCULES BRUNSWICK FACILITY
BRUNSWICK, GA

Well ID	Chemical Name: / Report Result Unit: / Sampling Date	1,1-Dichloroethane	1,1-Dichloroethene	1,2,3-Trichloropropane	1,2-Dichloropropane	2-Butanone (MEK)	Methyl Isobutyl Ketone (MIBK)	Acetone	Benzene	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroform	cis-1,2-Dichloroethene	Ethylbenzene	Methylene Chloride	Tetrachloroethene	Toluene	Vinyl chloride	Xylenes, Total
	Report Result Unit:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
MW-26S	5/18/2010	--	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	<0.11	<1	<0.15	<0.33	<0.18	<0.2
	12/16/2010	--	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	<0.11	<1	<0.15	<0.33	<0.18	<0.2
	6/23/2011	<0.25	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	<0.11	3.1JB	<0.15	<0.33	<0.18	<0.2
	12/14/2011	<0.25	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	<0.11	<1	<0.15	<0.33	<0.18	<0.2
	6/6/2012	<0.25	<0.11	<0.41	<0.13	<1	<1	7.1J	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	<0.11	<1	<0.15	<0.33	<0.18	<0.2
MW-26D	5/18/2010	--	<0.11	<0.41	<0.13	<1	<1	<5	9.1	<0.6	<0.5	4.6	<0.14	0.29J	0.17J	<1*	<0.15	<0.33	<0.18	9.3
	12/16/2010	--	<0.11	<0.41	0.37J	<1	<1	<5	58	<0.6	<0.5	32	<0.14	1.1	38	<1	<0.15	1.9	<0.18	200
	6/23/2011	<0.25*	<0.11*	<0.41	<0.13	<1	<1	<5	84	<0.6*	<0.5	43	<0.14	<0.15	2.8	3.8J*B	<0.15	<0.33	0.39J	2.5
	12/14/2011	<0.25	<0.11	<0.41	0.24J	<1	<1	<5	6.3	<0.6	<0.5	2.9	<0.14	0.28J	<0.11	<1	<0.15	<0.33	<0.18	7.8
	6/6/2012	<0.25	<0.11	<0.41	0.26J	<1	<1	<5	6.4	<0.6	<0.5	3	<0.14	0.17J	<0.11	<1	<0.15	<0.33	<0.18	<0.2
	12/12/2012	<0.25	<0.11	<0.41	<0.13	<1.0	<1.0	<5.0 *	4.9	<0.60	<0.50	2.2	<0.14	<0.15	<0.11	<1.0	<0.15	<0.33 *	<0.18	0.31 J
	6/11/2013	< 0.25	< 0.11	< 0.41	< 0.13	< 1.0	< 1.0	< 5.0	3.7	< 0.60	< 0.50	1.7	< 0.14	< 0.15	< 0.11	< 1.0	< 0.15	< 0.33	< 0.18	0.25 J
	12/11/2013	<0.25	<0.11	<0.41	<0.13	<1.0	<1.0	<5.0	4.2	<0.60	<0.50	1.9	<0.14	<0.15	<0.11	<1.0	<0.15	<0.33	<0.18	0.81 J
MW-27D	5/26/2010	<0.25	<0.11	<0.41	<0.13	<1	<1	<5	0.34J	<0.6	<0.5	<0.25	<0.14	--	<0.11*	<1	<0.15	<0.33	<0.18	<0.2
MW-28D	6/8/2010	<5	<2.2	<8.2	<2.6	<20	<20	<100	1200	<12	<10	2000	15000D	--	8.4J	3600	15J	88	7.2J	37J
	12/16/2010	--	<2.8	<10	<3.2	<25	<25	<120	1000	<15	<12	1500	4J	<3.8	7.6J	2800	5.9J	66	<4.5	25J
	2/2/2011	--	<2.8	<10	<3.2	<25	<25	<120	550	<15	<12	1100	3300	<3.8	5.3J	2800	5.3J	39	<4.5	19J
	6/23/2011	<13*	<5.5	<21	<6.5	<50	<50	<250	1000	<30	<25	1800	<7	<7.5	5.9J	6900B	9J	25J	<9	24J
	12/16/2011	<5	<2.2	<8.2	<2.6	<20	<20	<100	900	<12	<10	1500	<2.8	<3	7.1J	<20	<3	24	12J	35J
	6/8/2012	<2.5	<1.1	<4.1	<1.3	<10	<10	<50	790	<6	<5	1300	<1.4	<1.5	5.9J	<10	<1.5	15	<1.8	30
	12/14/2012	<0.24	<0.25	<0.23	0.28 J	4.2 JB	<0.81	3.3 JB	740	0.28 JB	<0.18	1200	<0.23	<0.21	5	<0.16	<0.25	13	0.54 J	27
	6/13/2013	< 2.5	< 1.1	< 4.1	< 1.3	< 10	< 10	< 50	380	< 6.0	< 5.0	690	< 1.4	< 1.5	2.5 J	< 10	< 1.5	6.4 J	< 1.8	13 J
	12/13/2013	<2.5	<1.1	<4.1	<1.3	<10	<10	<50	880	<6.0	<5.0	1300	1300	5.7 J	5.9 J	1700	9.6 J	11	5.8 J	32
MW-29I	5/18/2010	--	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	<0.11	<1	<0.15	<0.33	<0.18	<0.2
	12/15/2010	--	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	<0.11	<1	<0.15	<0.33	<0.18	<0.2
	6/23/2011	<0.25*	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	<0.11	3.6JB	<0.15	<0.33	<0.18	<0.2
	12/14/2011	<0.25	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	<0.11	<1	<0.15	<0.33	<0.18	<0.2
	6/6/2012	<0.25	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	<0.11	<1	<0.15	<0.33	<0.18	<0.2
	12/12/2012	<0.25	<0.11	<0.41	<0.13	<1.0	<1.0	<5.0	<0.25	<0.60	<0.50	<0.25	<0.14	<0.15	<0.11	<1.0	<0.15	<0.33	<0.18	<0.20
	12/11/2013	<0.25	<0.11	<0.41	<0.13	<1.0	<1.0	<5.0	<0.25	<0.60	<0.50	<0.25	<0.14	<0.15	<0.11	<1.0	<0.15	<0.33	<0.18	<0.20
MW-29D	5/18/2010	--	<2.2	<8.2	<2.6	<20	<20	<100	1400	<12	<10	650	<2.8	<3	44	<20	<3	<6.6	<3.6	9.8J
	12/15/2010	--	<2.2	<8.2	<2.6	<20	<20	<100	1400	<12	<10	710	<2.8	<3	46	<20	<3	<6.6	<3.6	29J
	2/1/2011	--	<2.2	<8.2	<2.6	<20	<20	<100	1700	<12	<10	830	<2.8	<3	90	<20	<3	23	35	97
	6/23/2011	<2.5	<1.1	<4.1	<1.3	<10	<10	<50	1600	<6	<5	780	<1.4	<1.5	62	31JB	<1.5	4.8J	7.2J	65
	12/14/2011	<5	<2.2	<8.2	<2.6	<20	<20	<100	1200	<12	<10	640	<2.8	<3	47	<20	<3	<6.6	<3.6	56
	6/6/2012	<5	<2.2	<8.2	<2.6	<20	<20	150J	1100	<12	<10	530	<2.8	<3	19J	<20	<3	<6.6	<3.6	37J
	12/12/2012	<2.5	<1.1	<4.1	<1.3	<10	<10	<50	1400	<6.0	<5.0	590	<1.4	<1.5	7.7 J	<10	<1.5	9 J	<1.8	34
	6/11/2013	< 0.50	< 0.22	< 0.82	< 0.26	< 2.0	< 2.0	23 J	350	< 1.2	< 1.0	220	< 0.28	< 0.30	1.1 J	< 2.0	< 0.30	1.4 J	< 0.36	4.5
	12/11/2013	<5.0	<2.2	<8.2	<2.6	<20	<20	<100	1600	<12	<10	740	<2.8	<3.0	8.7 J	<20	<3.0	<6.6	<3.6	89
MW-30S	5/27/2010	<0.25	<0.11	<0.41	<0.13	<1	<1	30	<0.25	<0.6	<0.5	<0.25	<0.14	--	<0.11	<1*	<0.15	<0.33	<0.18	<0.2
MW-30D	5/27/2010	<0.25	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	--	<0.11	<1	<0.15	<0.33	<0.18	<0.2
MW-31D	6/8/2010	2.2	1.8	<0.41	<0.13	<1	<1	<5	1.6	<0.6	<0.5	<0.25	<0.14	--	<0.11	<1	<0.15	<0.33	<0.18	<0.2
MW-32D	5/27/2010	<0.25	<0.11	<0.41	<0.13	<1	<1	<5	3.1	<0.6	<0.5	<0.25	<0.14	--	0.15J	<1	<0.15	<0.33	<0.18	0.38J
MW-33	5/27/2010	<0.25	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	--	<0.11	<1	<0.15	<0.33	<0.18	<0.2
MW-34	6/8/2010	<0.25	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	--	<0.11	<1	<0.15	<0.33	<0.18	<0.2
MW-35D	6/8/2010	<0.25	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	--	<0.11	<1	<0.15	<0.33	<0.18	<0.2
MW-36D	5/18/2010	--	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	<0.11	<1	<0.15	<0.33	<0.18	<0.2
MW-37S	5/25/2010	<0.25	<0.11	<0.41	<0.13	<1	<1	7.9J	<0.25	0.86J	<0.5	<0.25	<0.14	--	<0.11	<1*	0.19	<0.33	<0.18	<0.2
MW-37I	5/25/2010	<0.25	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	--	<0.11	<1*	<0.15	<0.33	<0.18	<0.2
MW-37D	5/25/2010	<0.25	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	--	<0.11	<1*	<0.15	<0.33	<0.18	<0.2
MW-38S	6/2/2010	<0.25	<0.11	<0.41	<0.13	<1	<1	7.5J	<0.25	<0.6	<0.5	<0.25	<0.14	--	<0.11	<1	<0.15	<0.33	<0.18	<0.2
	12/15/2010	--	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	<0.11	<1	<0.15	<0.33	<0.18	<0.2
	6/22/2011	<0.25	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	<0.11	1.9JB	<0.15	<0.33	<0.18	<0.2
	12/14/2011	<0.25	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	<0.11	<1	<0.15	<0.33	<0.18	<0.2
	6/5/2012	<0.25	<0.11	<0.41	<0.13	<1	<1	11J	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	<0.11	<1	<0.15	<0.33	<0.18	<0.2
MW-38I	6/2/2010	<0.25	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	0.3J	<0.14	--	<0.11	<1	<0.15	<0.33	<0.18	<0.2
	12/15/2010	--	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	0.29J	<0.14	<0.15	<0.11	<1	<0.15	<0.33	<0.18	<0.2
	6/22/2011	<0.25	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	<0.11	2.8JB	<0.15	<0.33	<0.18	<0.2
	12/14/2011	<0.25	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	0.29J	<0.14	<0.15	<0.11	<1	<0.15	<0.33	<0.18	<0.2
	6/5/2012	<0.25	<0.11	<0.41	<0.13	<1	<1	7.4J	<0.25	<0.6	<0.5	0.28J	<0.14	<0.15	<0.11	<1	<0.15	<0.33	<0.18	<0.2
	12/12/2012	<0.25	<0.11	<0.41	<0.13	<1.0	<1.0	<5.0	<0.25	<0.60	<0.50	0.38 J	<0.14	<0.15	<0.11	<1.0	<0.15	<0.33	<0.18	<0.20
	12/11/2013	<0.25	<0.11	<0.41	<0.13	<1.0	<1.0	<5.0	<0.25	<0.60	<0.50	<0.25	<0.14	<0.15	<0.11	<1.0	<0.15	<0.33	<0.18	<0.20
MW-38D	6/2/2010	<1.2	<0.55	<2	<0.65	<5	<5	<25	920	<3	<2.5	480	<0.7	--	53	<5	<0.75	15	3.9J	150
	12/15/2010	--	<1.1	<4.1	<1.3	<10	<10	<50	820	<6	<5	490	<1.4	2.8J	38	<10	<1.5	4.3J	<1.8	120
	2/1/2011	--	<1.1	<4.1	<1.3	<10	<10	<50	520	<6	<5	290	<1.4	<1.5	22	<10	<1.5	11	16	8.6J
	6/22/2011	<2.5	<1.1	<4.1	<1.3	<10	<10	<50	400	<6	<5	250	<1.4	1.7J	4.4J	<10	<1.5	<3.3	2.3J	<2
	12/14/2011	<2.5	<1.1	<4.1	<1.3	<10	<10	<50	910	<6	<5	520	<1.4	2.7J	50	<10	<1.5	<3.3	4.3J	140
	6/5/2012	<1.3	<0.55	<2.1	<0.65	<5	<5	40J	460	<3	<2.5	220	<0.7	1.8J	1.4J	<5	<0.75	<1.7	2.3J	1.1J
	12/12/2012	<1.3	<0.55	<2.1	<0.65	<5.0	<5.0	<25 *	250	<3.0	<2.5	120	<0.70	<0.75	0.75 J	<5.0	<0.75	<1.7 *	1.8 J	1.1 J
	6/11/2013	< 0.25	< 0.11	< 0.41	< 0.13	< 1.0	< 1.0	7.8 J	100	< 0.60	< 0.50	62	< 0.14	< 0.15	0.34 J	< 1.0	< 0.15	< 0.33	1.1	1.1 J
	12/11/2013	<2.5	<1.1	<4.1	<1.3	<10	<10	<50	1400	<6.0	<5.0	740	<1.4	4.9 J	80	<10	<1.5	5.5 J	<1.8	170

VOLATILE ORGANIC COMPOUNDS - MONITORING WELLS
FORMER HERCULES BRUNSWICK FACILITY
BRUNSWICK, GA

Well ID	Chemical Name: / Report Result Unit: / Sampling Date	1,1-Dichloroethane	1,1-Dichloroethene	1,2,3-Trichloropropane	1,2-Dichloropropane	2-Butanone (MEK)	Methyl Isobutyl Ketone (MIBK)	Acetone	Benzene	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroform	cis-1,2-Dichloroethene	Ethylbenzene	Methylene Chloride	Tetrachloroethene	Toluene	Vinyl chloride	Xylenes, Total
	Report Result Unit:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
MW-39S	6/2/2010	<0.25	<0.11	<0.41	<0.13	<1	<1	19J	0.34J	<0.6	<0.5	<0.25	<0.14	--	14	<1	<0.15	2	<0.18	79
	12/15/2010	--	<0.11	<0.41	<0.13	<1	<1	7.1J	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	1.2	<1	<0.15	<0.33	<0.18	3.4
	6/23/2011	<0.25*	<0.11	<0.41	<0.13	<1	<1	21J	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	<0.11	3.6JB	<015	<0.33	<0.18	9.8
	12/13/2011	<0.25	<0.11	<0.41	<0.13	<1	<1	13J	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	<0.11	<1	<0.15	<0.33	<0.18	2
	6/5/2012	<0.25	<0.11	<0.41	<0.13	<1	<1	19J	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	<0.11	<1	<0.15	<0.33	<0.18	0.79J
	12/10/2012	<0.25	<0.11	<0.41	<0.13	<1.0	<1.0	10 J	<0.25	<0.60	<0.50	<0.25	<0.14	<0.15	<0.11	<1.0	<0.15	<0.33	<0.18	0.2 J
	12/10/2013	<0.25	<0.11	<0.41	<0.13	<1.0	<1.0	6.4 J	<0.25	<0.60	<0.50	<0.25	<0.14	<0.15	<0.11	<1.0	<0.15	<0.33	<0.18	<0.20
MW-39I	6/2/2010	<0.25	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	--	<0.11	<1	<0.15	0.57J	<0.18	<0.2
	12/15/2010	--	<0.11	<0.41	<0.13	<1	<1	<5	0.57J	<0.6	<0.5	0.48J	<0.14	<0.15	<0.11	<1	<0.15	<0.33	<0.18	<0.2
	6/23/2011	<0.25	<0.11	<0.41	<0.13	<1	<1	<5	0.36J	<0.6	<0.5	0.61J	<0.14	<0.15	<0.11	3.6JB	<0.15	<0.33	<0.18	<0.2
	12/13/2011	<0.25	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	0.77J	<0.14	<0.15	<0.11	<1	<0.15	<0.33	<0.18	<0.2
	6/5/2012	<0.25	<0.11	<0.41	<0.13	<1	<1	7.3J	<0.25	<0.6	<0.5	1.5	<0.14	<0.15	<0.11	<1	<0.15	<0.33	<0.18	<0.2
	12/10/2012	<0.25	<0.11	<0.41	<0.13	<1.0	<1.0	<5.0	<0.25	<0.60	<0.50	3.1	<0.14	<0.15	<0.11	<1.0	<0.15	<0.33	<0.18	<0.20
	12/10/2013	<0.25	<0.11	<0.41	<0.13	<1.0	<1.0	<5.0	<0.25	<0.60	<0.50	9.4	<0.14	<0.15	<0.11	<1.0	<0.15	<0.33	<0.18	<0.20
MW-39D	6/2/2010	<0.25	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	--	<0.11	<1	<0.15	<0.33	<0.18	<0.2
	12/15/2010	--	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	<0.11	<1	<0.15	<0.33	<0.18	<0.2
	6/23/2011	<0.25*	<0.11*	<0.41	<0.13	<1	<1	<5	<0.25	<0.6*	<0.5	<0.25	<0.14	<0.15	<0.11	3.9J*B	<0.15	<0.33	<0.18	<0.2
	12/13/2011	<0.25	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	<0.11	<1	<0.15	<0.33	<0.18	<0.2
	6/5/2012	<0.25	<0.11	<0.41	<0.13	<1	<1	6.6J	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	<0.11	<1	<0.15	<0.33	<0.18	<0.2
	12/10/2012	<0.25	<0.11	<0.41	<0.13	<1.0	<1.0	<5.0	<0.25	<0.60	<0.50	<0.25	<0.14	<0.15	<0.11	<1.0	<0.15	<0.33	<0.18	<0.20
	12/10/2013	<0.25	<0.11	<0.41	<0.13	<1.0	<1.0	<5.0	<0.25	<0.60	<0.50	<0.25	<0.14	<0.15	<0.11	<1.0	<0.15	<0.33	<0.18	<0.20
MW-40S	5/26/2010	<0.25	<0.11	<0.41	<0.13	<1	<1	17J	<0.25	<0.6	<0.5	<0.25	<0.14	--	<0.11*	<1	<0.15	<0.33	<0.18	<0.2
MW-40I	5/26/2010	<0.25	<0.11	<0.41	<0.13	<1	<1	<5	0.41J	<0.6	<0.5	0.87J	<0.14	--	<0.11*	<1	<0.15	<0.33	<0.18	<0.2
MW-40D	5/26/2010	<0.25	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	--	<0.11*	<1	<0.15	<0.33	<0.18	<0.2
MW-42I	5/16/2012	<13	11J	<21	<6.5	100J	760	3100	2800	520	8400	<13	4600	<7.5	280	280	14J	120	<9	190
MW-42D	5/16/2012	<1.3	2.9J	<2.1	<0.65	<5	<5	<25	200	<3	<2.5	34	350	<0.75	26	30	8.9	110	<0.9	19
MW-43S	5/16/2012	<0.25	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	<0.11	<1	<0.15	<0.33	<0.18	<0.2
MW-43I	5/16/2012	<0.25	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	0.27J	0.35J	0.18J	<0.11	<1	<0.13	<0.33	<0.18	1J
MW-43D	5/16/2012	<13	<5.5	<21	<6.5	<50	<50	<250	270	<30	<25	410	8000	<7.5	8.3J	2100	13J	44J	<9	18J
MW-44S	6/3/2010	<0.25	<0.11	<0.41	<0.13	<1	<1	48	<0.25	<0.6	<0.5	<0.25	<0.14	--	0.48J	<1	<0.15	3.9	<0.18	<0.2
MW-44I	6/3/2010	<0.25	<0.11	<0.41	<0.13	<1	<1	13J	94	<0.6	<0.5	52	<0.14	--	0.3J	<1	<0.15	0.48J	<0.18	1.7J
MW-44-ID	6/3/2010	<1.2	<0.55	<2	<0.65	<5	<5	<25	220	<3	<2.5	230	580	--	220	22J	<0.75	27	<0.9	610
MW-44D	6/3/2010	<0.5	<0.22	<0.82	<0.26	<2	<2	<10	340	<1.2	<1	52	<0.28	--	2.6	<2	<0.3	8.6	<0.36	8.1
	7/29/2010	<2	<0.22	<0.82	<0.26	<2	<2	<10	540D	<1.2	<1	140	<0.28	1.1J	9.5	<2	<0.3	7.1	<0.36	4.9
MW-45I	6/8/2010	<0.25	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	--	0.19J	<1	<0.15	<0.33	<0.18	<0.2
MW-46I	6/8/2010	<0.25	<0.11	<0.41	<0.13	<1	<1	38	5.0	3.1	<0.5	1.6	<0.14	--	0.24J	<1	<0.15	<0.33	<0.18	1.6J
MW-48D	6/2/2010	<0.25	<0.11	<0.41	<0.13	1.6J	2.5J	33	27	<0.6	<0.5	<0.25	<0.14	--	4.4	<1	<0.15	12	<0.18	7.8
MW-49S	5/16/2012	<0.25	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	<0.11	<1	<0.15	1.9	<0.18	<0.2
MW-49I	5/16/2012	<0.25	<0.11	<0.41	<0.13	<1	<1	<5	15	1.9J	<0.5	1.7	<0.14	0.18J	0.43J	<1	<0.15	<0.33	<0.18	0.91J
MW-49D	5/16/2012	<0.25	<0.11	<0.41	<0.13	<1	<1	<5	0.77J	<0.6	<0.5	<0.25	0.23J	<0.15	<0.11	<1	0.17J	<0.33	<0.18	0.21J
MW-50S	5/16/2012	<0.25	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	<0.11	<1	<0.15	<0.33	<0.18	<0.2
MW-50I	5/16/2012	<0.25	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	<0.11	<1	<0.15	<0.33	<0.18	<0.2
MW-50D	5/16/2012	<0.25	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	<0.11	<1	<0.15	<0.33	<0.18	<0.2
MW-51S	5/16/2012	<0.25	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	<0.11	<1	<0.15	<0.33	<0.18	<0.2
MW-51I	5/16/2012	<0.25	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	<0.11	<1	<0.15	<0.33	<0.18	<0.2
MW-51D	5/16/2012	<0.25	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	<0.11	<1	<0.15	0.56J	<0.18	<0.2
MW-52S	5/15/2012	<0.25	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	<0.11	<1	<0.15	<0.33	<0.18	<0.2
	8/2/2012	--	--	--	<0.13	--	--	--	<0.25	--	--	<0.25	--	<0.15	<0.11	--	--	<0.33	--	<0.2
MW-52I	5/15/2012	<0.25	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	<0.15	0.12J	<1	<0.15	<0.33	<0.18	<0.2
	8/2/2012	--	--	--	<0.13	--	--	--	<0.25	--	--	<0.25	--	<0.15	<0.11	--	--	<0.33	--	<0.2
MW-52D	5/15/2012	<0.25	<0.11	<0.41	0.42J	<1	<1	<5	17	<0.6	<0.5	6.3	<0.14	0.42J	6.1	<1	<0.15	0.61	<0.18	17
	8/2/2012	--	--	--	0.27J	--	--	--	6	--	--	1.7	--	0.31J	0.89J	--	--	<0.33	--	2.3
	12/11/2012	<0.25	<0.11	<0.41	<0.13	<1.0	<1.0	<5.0	5.4	0.62 J	<0.50	2	<0.14	0.3 J	1.2	<1.0	<0.15	<0.33	<0.18	1.5 J
	6/11/2013	< 0.25	< 0.11	< 0.41	< 0.13	< 1.0	< 1.0	< 5.0	1.7	< 0.60	< 0.50	0.48 J	< 0.14	< 0.15	0.13 J	< 1.0	< 0.15	< 0.33	< 0.18	0.22 J
	12/11/2013	<0.25	<0.11	<0.41	0.42 J	<1.0	<1.0	<5.0	13	<0.60	<0.50	5.9	<0.14	0.47 J	6.9	<1.0	<0.15	0.47 J	<0.18	16
MW-53S	5/27/2010	<0.25	<0.11	<0.41	<0.13	<1	<1	<5	<0.25	<0.6	<0.5	<0.25	<0.14	--	<0.11	<1	<0.15	<0.33	<0.18	<0.2
MW-54S	5/28/2010	<5	<2.2	<8.2	<2.6	<20	<20	<100	<5	<12	<10	<5	<2.8	--	970	<20	<3	<6.6	<3.6	4300
MW-54I	5/28/2010	<25	<11	<41	<13	<100	<100	<500	<25	<60	<50	28J	<14	--	3300	<100	<15	47J	<18	21000
MW-54D	5/28/2010	0.61J	0.61J	<0.82	<0.26	<2	<2	<10	110	<1.2	<1	170	1.7J	--	32	17	0.59J	13	<0.36	320
MW-55S	12/4/2013	<1.0	<1.0	<1.0	<1.0	<10	<10	6.0 J	<1.0	0.82 J	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<2.0
MW-55I	12/4/2013	<1.0	<1.0	<1.0	<1.0	<10	<10	<25	<1.0	0.81 J	<1.0	<1.0	1.2	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<2.0
MW-55D	12/4/2013	<10	<10	<10	<10	<100*	<100	<250	1000	<20	<10	520	<10	4.8 J	64	<50	<10	5.3 J	<10	98

UG/L - micrograms per liter
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value
* - Relative percent difference of the lab control sample and lab control sample duplicate exceeds the control limits
B - Compound was found in the blank and sample
D - Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D
**Results for the sample collected on 6/23/2011 from MW-10D were not consistent with historical results; therefore, the results from the duplicate sample were included in this table.
- Table does not include results for duplicate samples.
- Diluted (D) value used unless out of hold time, then non-dilute (E) value reported.
- Analyses out of hold times were not included in the table.

GROUNDWATER ANALYTICAL RESULTS – TOXAPHENE
FORMER HERCULES BRUNSWICK FACILITY
BRUNSWICK, GA

	Chemical Name:	Total Toxaphene (Chlorinated Camphenes)	Toxaphene, Technical
	Report Result Unit:	UG/L	UG/L
Well ID	Sampling Date		
HP-111-50A	03/30/2010	<0.5	<0.5
HP-111-50B	03/30/2010	<0.5	<0.5
HP-111-50C	03/30/2010	<0.5	<0.5
HP-111-51A	03/29/2010	0.92J	<0.5
HP-111-52A	03/29/2010	1.9J	<0.5
HP-111-52B	03/29/2010	<0.5	<0.5
HP-111-53A	03/29/2010	<0.5	<0.5
HP-111-53B	03/29/2010	<0.5	<0.5
HP-111-54A	03/30/2010	<0.5	<0.5
HP-111-54B	03/30/2010	11	<0.5
HP-111-54C	04/01/2010	37	<0.5
HP-111-57A	04/01/2010	15	<0.5
HP-111-57B	03/30/2010	37	<0.5
HP-111-57C	04/01/2010	41	<0.5
UP-1S	5/17/2010	<0.49	<0.49
	12/20/2010	<0.47	<0.47
	6/21/2011	<0.5	<0.5
	12/13/2011	1.1J	<0.51
	6/6/2012	<0.49	<0.49
	12/11/2012	<0.49	<0.49
	12/12/2013	<0.51	<0.51
UP-1D(R)	5/17/2010	<0.48	<0.48
	12/20/2010	<0.49	<0.49
	6/21/2011	<0.55	<0.55
	12/13/2011	<0.99	<0.99
	6/6/2012	<0.48	<0.48
	12/11/2012	<0.47	<0.47
	12/12/2013	<0.50	<0.50
POC-1S	5/19/2010	31	<0.49
	12/20/2010	53	<0.48
	6/21/2011	<0.5	<0.5
	12/15/2011	4.3J	<0.48
	6/7/2012	5.5J	<4.9
	12/13/2012	18	<0.48
	6/11/2013	20	< 0.52
	12/12/2013	20	<0.50
POC-1D	5/18/2010	<0.48	<0.48
	12/20/2010	<0.49	<0.49
	6/21/2011	<0.5	<0.5
	12/15/2011	<0.47	<0.47
	6/7/2012	<0.48	<0.48
	12/13/2012	<0.47	<0.47
	6/11/2013	< 0.51	< 0.51
	12/12/2013	<0.51	<0.51
POC-2S	5/19/2010	280	<5
	8/12/2010	220	<4.7
	12/16/2010	650D	<5D**
	2/2/2011	140	<0.5
	6/21/2011	150	<0.51
	12/15/2011	110	68
	6/8/2012	640	480
	12/13/2012	440 D	<19
	6/12/2013	370	260
	12/13/2013	560 *	<13 *
POC-2D	5/19/2010	<0.5	<0.5
	12/16/2010	<0.48	<0.48
	6/21/2011	<0.48	<0.48
	12/15/2011	<0.47	<0.47
	6/8/2012	<0.49	<0.49
	12/13/2012	<0.47	<0.47
	6/12/2013	1.0 J	< 0.49
	12/13/2013	<0.51 *	<0.51 *
POC-3S	5/19/2010	140	<4.9
	12/20/2010	200	<0.49
	6/23/2011	91	<2.5
	12/15/2011	5.8	1.1 J
	6/8/2012	5.7	2.9 J
	12/13/2012	76 / 72 D	<0.49
	6/12/2013	16	10 p
	12/12/2013	85	<0.49

GROUNDWATER ANALYTICAL RESULTS – TOXAPHENE
FORMER HERCULES BRUNSWICK FACILITY
BRUNSWICK, GA

	Chemical Name:	Total Toxaphene (Chlorinated Camphenes)	Toxaphene, Technical
	Report Result Unit:	UG/L	UG/L
Well ID	Sampling Date		
POC-3D	5/18/2010	1.8J	<0.49
	12/20/2010	<0.49	<0.49
	6/23/2011	1.8J	<0.5
	12/15/2011	<0.47	<0.47
	6/8/2012	0.82 J	<0.47
	12/13/2012	0.62 J	<0.47
	6/12/2013	0.99 J	0.94 J
	12/12/2013	1.0 J	<0.50
MW-3S	5/17/2010	<0.47	<0.47
	12/20/2010	<0.49	<0.49
	6/23/2011	0.56 J	<0.48
	12/15/2011	<0.5	<0.5
	6/6/2012	<0.49	<0.49
MW-3D	5/17/2010	10	<0.48
	12/20/2010	1 J	<0.48
	2/1/2011	8.5	0.59 J
	6/23/2011	3.4J	<0.5
	12/15/2011	<0.47	<0.47
	6/6/2012	3.5 J	<0.95
	12/13/2012	5.1	<0.47
	12/12/2013	4.2 J p	<0.51
MW-5I	6/1/2010	<0.5	<0.5
MW-9S	5/18/2010	<0.48	<0.48
	12/17/2010	<0.48	<0.48
	6/22/2011	<0.48	<0.48
	12/16/2011	<0.49	<0.49
	6/7/2012	<0.48	<0.48
MW-9D	5/19/2010	9.3	0.67J
	12/17/2010	4.6J	<0.49
	2/2/2011	6.4	<0.5
	6/22/2011	7.3	<0.48
	12/16/2011	100	<0.5
	6/7/2012	3.5J	<0.47
	12/13/2012	5.5	<0.47
	6/13/2013	< 11	< 11
	12/12/2013	5.8	<0.50
MW-10S	5/18/2010	<0.49	<0.49
	12/17/2010	<0.47	<0.47
	6/23/2011	0.57J	<0.48
	12/16/2011	<0.48	<0.48
	6/8/2012	<0.48	<0.48
MW-10D	5/19/2010	79	7.5
	7/29/2010	38	<0.48
	12/17/2010	27	<0.48
	2/2/2011	20	<0.5
	6/23/2011	44	<2.4
	12/16/2011	190D	<0.5
	6/8/2012	39J	<9.7
	12/13/2012	40	<2.3
	6/13/2013	52	23
	12/12/2013	60	<0.50
MW-11S	5/18/2010	<0.48	<0.48
	12/17/2010	<0.49	<0.49
	6/22/2011	<0.49	<0.49
	12/16/2011	<0.53	<0.53
	6/6/2012	<0.48	<0.48
MW-11D	5/18/2010	<0.49	<0.49
	12/17/2010	<0.48	<0.48
	6/22/2011	<0.49	<0.49
	12/16/2011	<0.51	<0.51
	6/6/2012	<0.48	<0.48
	12/12/2012	0.49 J	<0.48
	6/11/2013	2.3 J	< 0.49
	12/11/2013	1.1 J	<0.49

GROUNDWATER ANALYTICAL RESULTS – TOXAPHENE
FORMER HERCULES BRUNSWICK FACILITY
BRUNSWICK, GA

	Chemical Name:	Total Toxaphene (Chlorinated Camphenes)	Toxaphene, Technical
	Report Result Unit:	UG/L	UG/L
Well ID	Sampling Date		
MW-12S	5/18/2010	<0.48	<0.48
	12/20/2010	<0.5	<0.5
	6/22/2011	<0.48	<0.48
	12/15/2011	<0.48	<0.48
	6/7/2012	<0.48	<0.48
MW-12D	5/18/2010	1.5J	<0.5
	12/20/2010	<0.47	<0.47
	6/22/2011	0.98J	<0.49
	12/15/2011	<0.5	<0.5
	6/7/2012	<0.47	<0.47
	12/12/2012	0.57 J	<0.49
	6/11/2013	0.81 J	< 0.50
	12/11/2013	<0.50	<0.50
MW-14S	6/3/2010	--	--
	12/20/2010	<0.48	<0.48
	6/23/2011	0.64J	<0.47
	12/16/2011	<0.49	<0.49
MW-14D	6/3/2010	--	--
	12/20/2010	<0.49	<0.49
	6/23/2011	<0.47	<0.47
	12/16/2011	<0.51	<0.51
	6/8/2012	<0.48	<0.48
	12/13/2012	<0.47	<0.47
	12/13/2013	<0.51 *	<0.51 *
MW-19S	5/26/2010	--	--
	12/15/2011	<0.49	<0.49
MW-19I	5/26/2010	--	--
	12/15/2011	<0.49	<0.49
MW-19D	5/26/2010	--	--
	12/15/2011	<0.46	<0.46
MW-20S	5/18/2010	<0.48	<0.48
	6/2/2010	<0.48	<0.48
	12/16/2010	<0.5	<0.48
	6/22/2011	<0.48	<0.48
	12/14/2011	<0.52	<0.52
	6/6/2012	<0.61	<0.61
MW-20I	5/18/2010	0.89J	<0.5
	6/2/2010	<0.47	<0.47
	12/16/2010	<0.47	<0.47
	6/22/2011	<0.48	<0.48
	12/14/2011	<0.49	<0.49
	6/6/2012	<0.49	<0.49
	12/12/2012	<0.48	<0.48
	12/10/2013	<0.50	<0.50
MW-20D	5/18/2010	2.9J	<0.47
	6/2/2010	--	--
	12/16/2010	3.9J	<0.49
	6/22/2011	3.5J	<0.48
	12/14/2011	<0.48	<0.48
	6/6/2012	2.1J	<0.49
	12/12/2012	3.7 J	<0.47
	6/13/2013	7.5	1.9 Jp
	12/13/2013	8.2 J p *	<2.0 *
MW-21	5/18/2010	<0.47	<0.47
MW-22	5/18/2010	4.4J	1.3J
MW-23	5/18/2010	<0.48	<0.48
MW-24	5/18/2010	7.9	<0.47
MW-25S	6/3/2010	1.1J	<0.48
MW-25D	6/3/2010	<0.47	<0.47

GROUNDWATER ANALYTICAL RESULTS – TOXAPHENE
FORMER HERCULES BRUNSWICK FACILITY
BRUNSWICK, GA

	Chemical Name:	Total Toxaphene (Chlorinated Camphenes)	Toxaphene, Technical
	Report Result Unit:	UG/L	UG/L
Well ID	Sampling Date		
MW-26S	5/18/2010	<0.48	<0.48
	12/16/2010	14	<0.49
	6/23/2011	0.75J	<0.49
	12/14/2011	<0.48	<0.48
	6/6/2012	<0.49	<0.49
MW-26D	5/18/2010	1.3J	<0.49
	12/16/2010	<0.47	<0.47
	6/23/2011	<0.47	<0.47
	12/14/2011	<0.49	<0.49
	6/6/2012	<0.47	<0.47
	12/12/2012	<0.49	<0.49
	6/11/2013	< 0.53	< 0.53
	12/11/2013	<0.51	<0.51
MW-27D	5/26/2010	<0.48	<0.48
MW-28D	6/8/2010	--	--
	12/16/2010	<0.47	<0.47
	2/2/2011	9.7	<0.47
	6/23/2011	45	<2.4
	12/16/2011	55	<0.49
	6/8/2012	<9.4	<9.4
	12/14/2012	14 p	<0.48
	6/13/2013	14 J	< 10
	12/13/2013	13 J p *	<2.0 *
MW-29I	5/18/2010	<0.47	<0.47
	12/15/2010	<0.5	<0.5
	6/23/2011	<0.48	<0.48
	12/14/2011	<0.48	<0.48
	6/6/2012	<0.49	<0.49
	12/12/2012	<0.49	<0.49
	12/11/2013	<0.51	<0.51
MW-29D	5/18/2010	9.4	<0.47
	12/15/2010	17	2.7J
	2/1/2011	8.2	<0.49
	6/23/2011	14J	<2.4
	12/14/2011	<0.48	<0.48
	6/6/2012	7.3J	<1.9
	12/12/2012	13	<0.47
	6/11/2013	16	< 0.51
	12/11/2013	11	<0.50
MW-32D	5/27/2010	<0.48	<0.48
MW-33	5/27/2010	<0.49	<0.49
MW-35D	6/8/2010	<0.5	<0.5
MW-36D	5/18/2010	<0.47	<0.47
MW-37S	5/25/2010	<0.5	<0.5
MW-37I	5/25/2010	<0.48	<0.48
MW-38S	6/2/2010	<0.48	<0.47
	12/15/2010	<0.50	<0.50
	6/22/2011	<0.48	<0.48
	12/14/2011	<0.49	<0.49
	6/5/2012	<0.47	<0.47
MW-38I	6/2/2010	<0.5	<0.5
	12/15/2010	<0.50	<0.50
	6/22/2011	<0.48	<0.48
	12/14/2011	<0.53	<0.53
	6/5/2012	<0.49	<0.49
	12/12/2012	<0.50	<0.50
	12/11/2013	<0.50	<0.50

GROUNDWATER ANALYTICAL RESULTS – TOXAPHENE
FORMER HERCULES BRUNSWICK FACILITY
BRUNSWICK, GA

	Chemical Name:	Total Toxaphene (Chlorinated Camphenes)	Toxaphene, Technical
	Report Result Unit:	UG/L	UG/L
Well ID	Sampling Date		
MW-38D	6/2/2010	8.9	<0.5
	12/15/2010	13	2.7J
	2/1/2011	7.1	<0.50
	6/22/2011	<0.49	<0.49
	12/14/2011	7	<0.51
	6/5/2012	1.8J	<0.47
	12/12/2012	5.9	<0.47
	6/11/2013	6.5	< 0.50
	12/11/2013	5.6 p	<0.50
MW-39S	12/15/2010	<0.49	<0.49
	6/23/2011	0.84J	<0.50
	12/13/2011	<0.54	<0.54
	6/5/2012	<0.47	<0.47
	12/10/2012	0.64 Jp	<0.47
	12/10/2013	1.7 J	<0.49
MW-39I	12/15/2010	<0.49	<0.49
	6/23/2011	<0.48	<0.48
	12/13/2011	<0.50	<0.50
	6/5/2012	<0.48	<0.48
	12/10/2012	<0.47	<0.47
	12/10/2013	<0.51	<0.51
MW-39D	12/15/2010	<0.47	<0.47
	6/23/2011	0.60J	<0.48
	12/13/2011	<0.50	<0.50
	6/5/2012	<0.49	<0.49
	12/10/2012	<0.47	<0.47
	12/10/2013	<0.50	<0.50
MW-40S	5/26/2010	<0.49	<0.49
MW-40I	5/26/2010	<0.48	<0.48
MW-40D	5/26/2010	<0.49	<0.49
MW-42I	5/16/2012	28J	<48
MW-42D	5/16/2012	130	<48
MW-43S	5/16/2012	<4.7	<0.47
MW-43I	5/16/2012	2.4J	<0.49
MW-43D	5/16/2012	24J	<4.8
MW-44S	6/3/22010	<0.5	<0.5
MW-44I	6/3/2010	1.4J	<0.47
MW-44-ID	6/3/2010	5	<0.47
MW-44D	6/3/2010	1J	<0.48
MW-45I	6/8/2010	<0.49	<0.49
MW-46I	6/8/2010	1.5J	<0.47
MW-52S	5/15/2012	<0.49	<0.49
	8/2/2012	--	--
MW-52I	5/15/2012	<0.47	<0.47
	8/2/2012	--	--
MW-52D	5/15/2012	<0.47	<0.47
	8/2/2012	<0.47	<0.47
	12/11/2012	<0.47	<0.47
	6/11/2013	< 0.52	< 0.52
	12/11/2013	<0.51	<0.51
MW-53S	5/27/2010	<0.49	<0.49
MW-54S	5/28/2010	<0.48	<0.48
MW-54I	5/28/2010	28	<0.48
MW-54D	5/28/2010	6.9	<0.47
MW-55S	12/4/2013	<5.0	<5.0
MW-55I	12/4/2013	<4.8	<4.8
MW-55D	12/4/2013	7.2	<4.7

Analytical Notes:
< - Not detected at or above indicated laboratory reporting limit

UG/L - micrograms per liter

-- - No information available

J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value

D - Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D

E - Result exceeded instrument calibration range

** - Technical toxaphene for the POC-2S sample collected on 12-16-10 was detected at 69 ug/l for the non-diluted sample. The result of the diluted sample was reported due to the QC results of the non-diluted analysis.

- Table does not include results for duplicate samples.
- Diluted (D) value used unless out of hold time, then non-dilute (E) value reported.
-Analyses out of hold times were not included in the table.

METALS – GROUNDWATER SCREENING SAMPLES
FORMER HERCULES BRUNSWICK FACILITY
BRUNSWICK, GA

Chemical Name:		Arsenic	Barium	Beryllium	Chromium	Cobalt	Copper	Lead	Nickel	Selenium	Vanadium	Zinc
Report Result Unit:		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Well ID	Sampling Date											
HP-111-50A	03/30/2010	17J	140	1.5J	50	7J	12J	11	24J	<6.4	3	6.3
HP-111-50B	03/30/2010	15J	150	1J	57	8.4J	11J	13	19J	<6.4	56	52
HP-111-50C	03/30/2010	<10	97	0.24J	28	1.5J	9.6J	<3.4	11J	<6.4	21	50
HP-111-51A	03/29/2010	410	580	8.1	360	91	100	81	190	6.6J	220	1300
HP-111-52A	03/29/2010	37	1000	6.7	89	22	12J	14	42	<6.4	130	560
HP-111-52B	03/29/2010	63	200	2.7J	150	5.9J	39	16	23J	<6.4	79	110
HP-111-53A	03/29/2010	110	500	5.9	100	37	46	28	70	<6.4	82	680
HP-111-53B	03/29/2010	27	190	1.1J	200	6.3J	130	23	36J	<6.4	46	91

Analytical Notes:

< - Not detected at or above indicated laboratory detection limit

UG/L - micrograms per liter

J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

- Antimony was detected at trace concentrations in samples collected from HP-111-51A (7.1J), HP-111-52B (7.7J) and HP-111-53B (5.6J).

- Cadmium was detected at a trace concentration of 2.4J in the sample collected from HP-111-51A.

- Tin was detected at a trace concentration of 7.5J in the sample collected from HP-111-53B.

- Silver and thallium were not detected in any of the groundwater screening samples collected at the site.

METALS - MONITORING WELLS
FORMER HERCULES BRUNSWICK FACILITY
BRUNSWICK, GA

	Chemical Name:	Arsenic	Barium	Beryllium	Chromium	Cobalt	Nickel	Selenium	Vanadium	Zinc
	Report Result Unit:	UG/L	UG/L	ug/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Well ID	Sampling Date									
UP-1S	5/17/2010	--	--	--	--	--	--	--	<2.4	--
	12/20/2010	<4.6	21	--	1.4J	1.1J	<2.3	<6.4	<2.4	--
	6/6/2012	<1.3	54	--	20	1.7	9.1	<1.1	<3.2	<8.4
	12/11/2012	<1.3	20	--	<2.5	0.8	<2.0	<1.1	<3.2	<8.4
	12/12/2013	<1.3	17	--	3.5 J	0.43 J	<2.0	<1.0	<3.8	13 J
UP-1D (R)	12/20/2010	<4.6	540	--	<1.2	<0.95	<2.3	<6.4	<2.4	--
	6/6/2012	<1.3	41	--	<2.5	0.14J	<2	<1.1	<3.2	<8.4
	12/11/2012	<1.3	28	--	<2.5	<0.12	<2.0	<1.1	<3.2	<8.4
	12/12/2013	<1.3	28	--	<2.5	0.15 J	2.7 J	<1.0	<3.8	16 J
POC-1S	05/19/2010	--	--	--	--	--	--	--	33	--
	12/20/2010	--	--	--	--	--	--	--	23	--
	6/7/2012	2.9	12	<0.15	5.4	0.35J	<2	3.4	26	<8.4
	12/13/2012	4.8	14	--	12.0	0.9	4.2 J	5.4	40	8.8 J
	6/11/2013	3.4	14	--	7.5	0.45 J	2.6 J	4.1	34	< 8.4
	12/12/2013	2.9	16	--	7.5	0.62	2.4 J	4.1	32	<8.3
POC-1D	12/20/2010	--	--	--	--	--	--	--	<2.4	--
	6/7/2012	2.3J	580	<0.15	<2.5	0.79	<2	<1.1	<3.2	<8.4
	12/13/2012	2.7	650	--	<2.5	1.5	2.6 J	<1.1	<3.2	<8.4
	6/11/2013	2.1 J	590	--	2.5 J	1.0	3.2 J	< 1.1	< 3.2	< 8.4
	12/12/2013	<1.3	590	--	<2.5	1.6	<2.0	<1.0	<3.8	<8.3
POC-2S	5/19/2010	4.5	47	<0.15	4.9J	0.7	4.4J	5.0	35	<8.4
	8/12/2010	4.8J	26	--	5.0J	<0.95	--	6.4J	24	--
	12/16/2010	<4.6	39	--	4.4J	<0.95	<2.3	<6.4	25	--
	6/8/2012	3.7	33	--	<2.5	0.78	<2	4.1	17	<8.4
	12/13/2012	4.5	29	--	3.5 J	0.7	<2.0	5.3	21	<8.4
	6/12/2013	3.6	24	--	3.1 J	0.5	< 2.0	5.5	18	< 8.4
	12/13/2013	3.4	24	--	3.7 J	0.56	2.9 J	5.4	19	<8.3
POC-2D	5/19/2010	2J	770	<0.15	4.5J	1.8	5.3	<1.1	<3.2	<8.4
	12/16/2010	<4.6	890	--	1.4J	<0.95	2.4J	<6.4	<2.4	--
	6/8/2012	2.5	710	--	<2.5	0.97	<2	<1.1	<3.2	<8.4
	12/13/2012	3.5	860	--	4.9 J	1.9	3.6 J	<1.1	<3.2	<8.4
	6/12/2013	2.1 J	870	--	2.6 J	1.6	6.3	< 1.1	< 3.2	< 8.4
	12/13/2013	1.3 J	820	--	<2.5	2.1	3.0 J	<1.0	<3.8	9.0 J
POC-3S	05/19/2010	--	--	--	--	--	--	--	8.9J	--
	12/20/2010	--	--	--	--	--	--	--	10	--
	6/8/2012	2.5	45	--	<2.5	0.3J	<2	<1.1	5.1J	500
	12/13/2012	2.2 J	27	--	6.0	0.15 J	<2.0	2.8	14	<8.4
	6/12/2013	1.6 J	41	--	< 2.5	0.17 J	< 2.0	< 1.1	< 3.2	140.0
	12/12/2013	1.7 J	43	--	6.3	0.20 J	<2.0	1.9 J	12	44
POC-3D	12/20/2010	--	--	--	--	--	--	--	<2.4	--
	6/8/2012	2.7	750	--	<2.5	1.0	<2	<1.1	<3.2	<8.4
	12/13/2012	3.4	760	--	9.3	1.8	6.1	<1.1	<3.2	<8.4
	6/12/2013	1.7 J	710	--	7.4	1.5	13.0	< 1.1	< 3.2	< 8.4
	12/12/2013	1.3 J	660	--	3.6 J	2	4.6 J	<1.0	<3.8	<8.3
MW-3S	05/17/2010	--	--	--	--	--	--	--	3.2J	--
	12/20/2010	--	--	--	--	--	--	--	<2.4	--
	6/6/2012	<1.3	21	--	<2.5	0.16J	<2	<1.1	6J	<8.4
MW-3D	12/20/2010	--	--	--	--	--	--	--	<2.4	--
	6/6/2012	<1.3	290	--	<2.5	0.89	<2	<1.1	<3.2	<8.4
	12/13/2012	1.6 J	240	--	<2.5	0.79	4 J	<1.1	<3.2	<8.4
	12/12/2013	<1.3	350	--	<2.5	1.3	2.2 J	<1.0	<3.8	<8.3
MW-9S	5/18/2010	--	--	--	--	--	--	--	<2.4	--
	12/17/2010	--	--	--	--	--	--	--	<2.4	--
	6/7/2012	<1.3	100	--	<2.5	<0.12	<2	<1.1	<3.2	<8.4
MW-9D	12/17/2010	--	--	--	--	--	--	--	3.6J	--
	6/7/2012	<1.3	170	--	<2.5	0.24J	<2	<1.1	4.3J	<8.4
	12/13/2012	<1.3	170	--	<2.5	0.41 J	<2.0	<1.1	3.6 J	<8.4
	6/13/2013	< 1.3	160	--	< 2.5	0.30 J	< 2.0	< 1.1	< 3.2	< 8.4
	12/12/2013	<1.3	160	--	2.7 J	0.44 J	2.8 J	<1.0	<3.8	8.6 J
MW-10S	05/18/2010	--	--	--	--	--	--	--	<2.4	--
	12/17/2010	--	--	--	--	--	--	--	<2.4	--
	6/8/2012	<1.3	65	--	<2.5	<0.12	<2	<1.1	<3.2	<8.4
MW-10D	12/17/2010	--	--	--	--	--	--	--	<2.4	--
	6/8/2012	4.2	1500	--	<2.5	1.5	<2	<1.1	<3.2	<8.4
	12/13/2012	6.9	2000	--	<2.5	3.2	2.4 J	<1.1	<3.2	<8.4
	6/13/2013	3.3	1900	--	< 2.5	2.5	< 2.0	< 1.1	< 3.2	< 8.4
	12/12/2013	3	1800	--	<2.5	3.6	<2.0	<1.0	<3.8	12 J
MW-11S	5/18/2010	--	--	--	--	--	--	--	<2.4	--
	12/17/2010	--	--	--	--	--	--	--	<2.4	--
	6/6/2012	<1.3	35	--	<2.5	<0.12	<2	<1.1	<3.2	<8.4
MW-11D	12/17/2010	--	--	--	--	--	--	--	<2.4	--
	6/6/2012	<1.3	91	--	<2.5	0.33J	<2	<1.1	<3.2	<8.4
	12/12/2012	1.3 J	110	--	<2.5	0.31 J	<2.0	<1.1	<3.2	<8.4
	6/11/2013	< 1.3	95	--	< 2.5	0.28 J	2.1 J	< 1.1	< 3.2	< 8.4
	12/11/2013	<1.3	100		<2.5	0.40 J	<2.0	<1.0	<3.8	28
MW-12S	5/18/2010	--	--	--	--	--	--	--	12	--
	12/20/2010	--	--	--	--	--	--	--	10	--
	6/7/2012	<1.3	15	--	<2.5	<0.12	<2	<1.1	8.1J	<8.4

METALS - MONITORING WELLS
FORMER HERCULES BRUNSWICK FACILITY
BRUNSWICK, GA

	Chemical Name:	Arsenic	Barium	Beryllium	Chromium	Cobalt	Nickel	Selenium	Vanadium	Zinc
	Report Result Unit:	UG/L	UG/L	ug/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Well ID	Sampling Date									
MW-12D	12/20/2010	--	--	--	--	--	--	--	<2.4	--
	6/7/2012	5.6	1200	--	<2.5	1.9	<2	<1.1	<3.2	<8.4
	12/12/2012	4.1 J	1400	--	<5.0	3.1	<4.0	<2.2	<6.4	<17
	6/11/2013	4.7	1300	--	< 2.5	2.7	< 2.0	< 1.1	< 3.2	< 8.4
	12/11/2013	2.2 J	1,200		<2.5	3.9	2.1 J	<1.0	<3.8	22
MW-14S	12/20/2010	--	--	--	--	--	--	--	4.2J	--
MW-14D	12/20/2010	--	--	--	--	--	--	--	8.6J	--
	6/8/2012	<1.3	84	--	3.9J	0.16J	<2	<1.1	8.7J	<8.4
	12/13/2012	<1.3	77	--	4 J	0.19 J	<2.0	<1.1	9 J	<8.4
MW-18	12/21/2010	<4.6	10	--	1.7J	<0.95	<2.3	<6.4	<2.4	--
MW-19S	12/21/2010	<4.6	23	--	4.1J	<0.95	<2.3	<6.4	8.7J	--
MW-19I	12/21/2010	<4.6	130	--	2.4J	<0.95	<2.3	<6.4	2.7J	--
MW-19D	12/21/2010	<4.6	1200	--	14	<0.95	4.8J	<6.4	<2.4	--
MW-20S	05/18/2010	--	--	--	--	--	--	--	<2.4	--
	12/16/2010	--	--	--	--	--	--	--	<2.4	--
	06/06/2012	1.6J	150	--	<2.5	1.7	<2	<1.1	<3.2	<8.4
MW-20I	12/16/2010	--	--	--	--	--	--	--	2.6J	--
	06/06/2012	<1.3	38	--	6	0.7	<2	<1.1	6.2J	<8.4
	12/12/2012	<1.3	31	--	<2.5	<0.12	<2.0	<1.1	<3.2	<8.4
	12/10/2013	<1.3	33	--	6.8	0.51	<2.0	<1.0	4.8 J	<8.3
MW-20D	12/16/2010	--	--	--	--	--	--	--	<2.4	--
	06/06/2012	<1.3	120	--	<2.5	0.46J	<2	<1.1	<3.2	<8.4
	12/12/2012	1.7 J	170	--	<2.5	0.71	<2.0	<1.1	<3.2	<8.4
	06/13/2013	< 1.3	170	--	< 2.5	0.69	< 2.0	< 1.1	< 3.2	< 8.4
	12/13/2013	<1.3	250	--	<2.5	1.4	<2.0	<1.0	<3.8	<8.3
MW-21	05/18/2010	--	--	--	--	--	--	--	2.6J	--
MW-22	05/18/2010	--	--	--	--	--	--	--	16	--
MW-23	05/18/2010	--	--	--	--	--	--	--	7.9J	--
MW-24	05/18/2010	--	--	--	--	--	--	--	6.2J	--
MW-26S	05/18/2010	--	--	--	--	--	--	--	<2.4	--
	12/16/2010	--	--	--	--	--	--	--	<2.4	--
	06/06/2012	<1.3	6.6	--	<2.5	<0.12	<2	<1.1	<3.2	<8.4
MW 26D	12/16/2010	--	--	--	--	--	--	--	<2.4	--
	06/06/2012	<1.3	380	--	<2.5	1.2	<2	<1.1	<3.2	<8.4
	12/12/2012	2.5	410	--	<2.5	1.0	<2.0	<1.1	<3.2	11 J
	06/11/2013	1.6 J	340	--	< 2.5	0.9	< 2.0	< 1.1	< 3.2	110.0
	12/11/2013	<1.3	390	--	<2.5	1.6	<2.0	<1.0	<3.8	15 J
MW-28D	12/16/2010	--	--	--	--	--	--	--	3.2J	--
	06/08/2012	1.9J	390	--	<2.5	0.63	<2	<1.1	<3.2	<8.4
	12/14/2012	2.5	470	--	<2.5	0.84	<2.0	<1.1	<3.2	<8.4
	06/13/2013	1.3 J	380	--	< 2.5	0.88	3.4 J	< 1.1	< 3.2	< 8.4
	12/13/2013	<1.3	410	--	<2.5	1.2	<2.0	<1.0	<3.8	<8.3
MW 29I	12/15/2010	--	--	--	--	--	--	--	<2.4	--
	06/06/2012	<1.3	32	--	<2.5	0.13J	<2	<1.1	<3.2	<8.4
	12/12/2012	<1.3	35	--	<2.5	<0.12	<2.0	<1.1	<3.2	<8.4
	12/11/2013	<1.3	37	--	<2.5	0.18 J	<2.0	<1.0	<3.8	21
MW-29D	12/15/2010	--	--	--	--	--	--	--	<2.4	--
	06/06/2012	<1.3	500	--	<2.5	0.95	<2	<1.1	<3.2	<8.4
	12/12/2012	2.2 J	530	--	<2.5	0.87	<2.0	<1.1	<3.2	<8.4
	12/11/2013	<0.0013	0.53	--	<0.0025	0.0013	<0.0020	<0.0010	<0.0038	0.025
	06/11/2013	1.6 J	490	--	< 2.5	0.74	< 2.0	< 1.1	< 3.2	< 8.4
	12/11/2013	<1.3	530	--	<2.5	1.30	<2.0	<1.0	<3.8	25.0
MW-31D	12/21/2010	<4.6	150	--	<1.2	<0.95	<2.3	<6.4	<2.4	--
MW-36D	12/21/2010	<4.6	16	--	<1.2	<0.95	<2.3	<6.4	<2.4	--
MW-37S	05/25/2010	<10	48	0.13J	2.7J	<1	<4.0	<6.4	5J	<6.3
	12/21/2010	<4.6	45	--	4.5J	<0.95	<2.3	<6.4	6.9J	--
MW-37I	05/25/2010	<10	55	0.34J	43	3.2J	16J	<6.4	13	19J
	12/21/2010	<4.6	57	--	2.9J	<0.95	<2.3	<6.4	<2.4	--
MW-37D	12/21/2010	<4.6	12	--	1.8J	<0.95	<2.3	<6.4	<2.4	--
MW-38S	06/02/2010	<10	260	<0.1	<2	<1	<4.0	<6.4	<3	<6.3
	12/15/2010	--	--	--	--	--	--	--	<2.4	--
	06/05/2012	1.7J	380	--	<2.5	1.1	<2	<1.1	<3.2	<8.4
MW-38I	06/02/2010	<10	41	<0.1	2.3J	<1	<4.0	<6.4	<3	6.8J
	12/15/2010	--	--	--	--	--	--	--	<2.4	--
	06/05/2012	<1.3	27	--	<2.5	<0.12	<2	<1.1	<3.2	<8.4
	12/12/2012	<1.3	27	--	<2.5	<0.12	<2.0	<1.1	<3.2	<8.4
	12/11/2013	<1.3	29	--	<2.5	<0.15	<2.0	<1.0	<3.8	18 J
MW-38D	06/02/2010	<10	440	<0.1	4.4J	<1	<4.0	<6.4	<3	20
	12/15/2010	--	--	--	--	--	--	--	<2.4	--
	06/05/2012	<1.3	160	--	<2.5	0.35J	<2	<1.1	<3.2	<8.4
	12/12/2012	1.3 J	170	--	19.0	0.6	12.0	<1.1	<3.2	<8.4
	06/11/2013	< 1.3	160	--	< 2.5	0.33 J	< 2.0	< 1.1	< 3.2	< 8.4
	12/11/2013	<1.3	660	--	<2.5	1.4	<2.0	<1.0	<3.8	18 J
MW-39S	06/02/2010	<10	200	<0.1	6.6J	2.3J	<4.0	<6.4	3.6J	13J
	12/15/2010	--	--	--	--	--	--	--	6J	--
	06/05/2012	2.7	250	--	5.8	2.6	<2	<1.1	<3.2	<8.4
	12/10/2012	2.1 J	250	--	7.2	2.9	<2.0	<1.1	3.2 J	<8.4
	12/10/2013	<1.3	290	--	5.8	2.3	<2.0	<1.0	<3.8	<8.3

METALS - MONITORING WELLS
FORMER HERCULES BRUNSWICK FACILITY
BRUNSWICK, GA

	Chemical Name:	Arsenic	Barium	Beryllium	Chromium	Cobalt	Nickel	Selenium	Vanadium	Zinc
	Report Result Unit:	UG/L	UG/L	ug/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Well ID	Sampling Date									
MW-39I	06/02/2010	<10	130	<0.1	27	<1	12J	<6.4	<3	<6.3
	12/15/2010	--	--	--	--	--	--	--	<2.4	--
	06/05/2012	1.4J	130	--	<2.5	0.15J	<2	<1.1	<3.2	<8.4
	12/10/2012	<1.3	120	--	<2.5	0.13 J	<2.0	<1.1	<3.2	<8.4
	12/10/2013	<1.3	110	--	<2.5	<0.15	<2.0	<1.0	<3.8	<8.3
MW-39D	06/02/2010	<10	76	<0.1	10	<1	6.4J	<6.4	<3	<6.3
	12/15/2010	--	--	--	--	--	--	--	<2.4	--
	06/05/2012	<1.3	17	--	<2.5	<0.12	<2	<1.1	<3.2	<8.4
	12/10/2012	<1.3	17	--	<2.5	<0.12	<2.0	<1.1	<3.2	<8.4
	12/10/2013	<1.3	18	--	2.8 J	<0.15	2.0 J	<1.0	<3.8	65
MW-40S	05/26/2010	<10	40	0.12J	3.7J	<1	<4.0	<6.4	6.7J	9.8J
MW-40I	05/26/2010	<10	110	<0.1	<2	<1	<4.0	<6.4	<3	<6.3
MW-40D	05/26/2010	<10	4.5J	<0.1	<2	<1	<4.0	<6.4	<3	<6.3
MW-41I	05/27/2010	<10	2800	0.14J	2.7J	<1	<4.0	<6.4	<3	8.2J
MW-42I	05/16/2012	<10	190	<0.1	2.6J	<1	<4	<6.4	<3	11J
MW-42D	05/16/2012	<10	1100	<0.1	<2	<1	<4	<6.4	4.4J	<6.3
MW-43S	05/16/2012	<10	83	<0.1	<2	<1	<4	<6.4	3.1J	<6.3
MW-43I	05/16/2012	<10	170	<0.1	5.4J	<1	<4	<6.4	5.9J	<6.3
MW-43D	05/16/2012	<10	440	<0.1	<2	<1	<4	<6.4	3.5J	<6.3
MW-44S	06/03/2010	<10	43	<0.1	9.5J	<1	<4	<6.4	5.5J	<6.3
MW-44I	06/03/2010	<10	140	<0.1	4.6J	<1	<4	<6.4	3.5J	7.2J
MW-44ID	06/03/2010	<10	1800	<0.1	47	<1	<4	<6.4	<3	7.1J
MW-44D	06/03/2010	<10	33	<0.1	12	<1	6J	<6.4	<3	<6.3
MW-45I	06/08/2010	<10	53	0.75J	23	<1	<4	<6.4	6.7J	7.4J
MW46I	06/08/2010	<10	100	3.4J	96	1.5J	9.6J	<6.4	59	19J
MW-50S	05/16/2012	<10	30	0.16J	5.6J	<1	<4	6.5J	8.2J	<6.3
MW-50I	05/16/2012	<10	64	0.12J	7.3J	<1	<4	7.5J	8J	<6.3
MW-50D	05/16/2012	<10	33	<0.1	4.7J	<1	<4	<6.4	<3	<6.3
MW-51S	05/16/2012	<10	140	0.14J	16	<1	9.6J	8.1J	14	<6.3
MW-51I	05/16/2012	18J	56	0.51J	48	2.7J	14J	<6.4	54	21
MW-51D	05/16/2012	<10	85	<0.1	10	<1	4J	<6.4	4.3J	<6.3
MW-52S	05/15/2012	<10	25	<0.1	4.3J	<1	<4	<6.4	3.1J	<6.3
MW-52I	05/15/2012	<10	50	0.13J	9.5J	<1	<4	<6.4	9J	9.3J
MW-52D	05/15/2012	<10	450	<0.1	2.2J	<1	<4	<6.4	4.4J	<6.3
	12/11/2012	2.4 J	430	--	<2.5	1.1	<2.0	<1.1	<3.2	<8.4
	06/11/2013	< 1.3	200	--	< 2.5	0.55	< 2.0	< 1.1	< 3.2	< 8.4
	12/11/2013	<1.3	590	--	<2.5	2.2	<2.0	<1.0	<3.8	19 J
MW-53S	05/27/2010	<10	47	0.12J	4J	<1	<4	<6.4	<3	13J
MW-54S	05/28/2010	<10	110	0.15J	<2	<1	<4	<6.4	<3	16J
MW-54I	05/28/2010	<10	470	2.5J	<2	<1	<4	<6.4	<3	<6.3
MW-54D	05/28/2010	<10	580	0.15J	<2	<1	<4	<6.4	<3	9.1J
MW-55S	12/04/2013	2.8	100	--	<5.0	0.6	<5.0	<2.5	5.5 J	<20
MW-55I	12/04/2013	9.3	28	--	2.9 J	<0.50	<5.0	<2.5	<10	<20
MW-55D	12/04/2013	1.7 J	670	--	<5.0	1.5	<5.0	<2.5	<10	<20

Analytical Notes:
< - Not detected at or above indicated laboratory detection limit
UG/L - micrograms per liter
-- - No information available
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
- Table does not include results for duplicate samples.
- Analyses completed out of hold times were not included in the table.
- Antimony was detected at a trace concentration of 5.2J in the sample collected from monitoring well MW-41I on 5/27/10.
- Cadmium was detected at a trace concentration of 3.9J in the sample collected from MW-41I on 5/27/10.
- Copper was detected at trace concentrations in the samples collected from monitoring wells MW-41I (5.6J) on 5/27/10 and MW-51I (5.3J) on 5/16/12.
- Lead was detected at trace concentrations in the samples collected from monitoring wells MW-51I (5.3J) and MW-5OS (5.8J) on 5/16/12.
- Silver, thallium, tin and mercury were not detected in any of the groundwater samples collected from the monitoring wells at the site.

ADDITIONAL ORGANIC PARAMETERS
FORMER HERCULES BRUNSWICK FACILITY
BRUNSWICK, GA

Chemical Name:		1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,4-Dichlorobenzene	p-Cymene	3 & 4 Methylphenol	Naphthalene	Phenol	alpha-BHC	gamma-BHC (Lindane)	Formaldehyde
Report Result Unit:		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Well ID	Sampling Date										
UP-1S	06/21/2011	--	<0.59	<0.6	<0.13	<1.4	--	<0.92	<0.0057	<0.0059	<5
	12/13/2011	<0.25	<0.21	<0.28	<0.13	<1.3	<0.7	<0.83	<0.0058	<0.006	19J
	6/6/2012	<0.25	<0.21	<0.28	0.68J	<1.3	<0.69	<0.82	<0.0056	<0.0058	<5.0
	12/11/2012	<0.25	<0.21	<0.28	<0.13	<1.3	<0.69	<0.82	<0.0055	<0.0057	12 J
	12/12/2013	<0.25	<0.21	<0.28	<0.13	<1.3	<0.69	<0.82	<0.0055	<0.0057	12 J
UP-1D(R)	6/21/2011	--	<0.5	<0.51	<0.13	<1.2	--	<0.79	<0.0062	<0.0065	<5
	12/13/2011	<0.25	<0.21	<0.28	<0.13	<1.2	<0.66	<0.78	<0.011	<0.012	12J
	6/6/2012	<0.25	<0.21	<0.28	<0.13	<1.2	<0.66	<0.79	<0.0054	<0.0056	<5.0
	12/11/2012	<0.25	<0.21	<0.28	<0.13	<1.3	<0.72	<0.85	<0.0054	<0.0056	<5.0
	12/12/2013	<0.25	<0.21	<0.28	<0.13	<1.3	<1.2	<1.6	<0.022	<0.019	<5.0
POC-1S	06/21/2011	--	11	14	49	<1.2	--	<0.79	4.7D	<0.0059	12J
	12/15/2011	0.82J	14	15	42	<1.3	<0.68	<0.81	0.079	<0.0056	18J
	6/7/2012	0.57J	9.4	11	5.9	<13	<6.9	<8.2	<0.055	<0.057	9.9J
	12/13/2012	4.8 JB	14	15	6.3 J	<1.3	<0.70	<0.83	<0.0055	<0.0057	290 B
	6/11/2013	0.69 J	12	13	2.7	< 1.5	< 1.4	< 1.8	< 0.023	< 0.019	17 J
	12/12/2013	0.57 J	10	11	2.3	<1.4	<1.3	<1.6	<0.022	<0.019	44 J
POC-1D	06/21/2011	--	<0.53	<0.54	<0.13	<1.3	--	<0.83	<0.0057	<0.0059	<5
	12/15/2011	<0.25	<0.21	<0.28	<0.13	<1.2	<0.67	<0.79	<0.0054	<0.0056	5.4J
	06/07/2012	<0.25	<0.21	<0.28	<0.13	<1.2	<0.67	<0.79	<0.0055	<0.0056	<5.0
	12/13/2012	<0.15	<0.19	<0.13	<0.17	<1.2	<0.67	<0.79	<0.0054	<0.0056	290 B
	06/11/2013	< 0.25	< 0.21	< 0.28	< 0.13	< 1.3	< 1.2	< 1.5	< 0.022	< 0.019	< 5.0
	12/12/2013	<0.25	<0.21	<0.28	<0.13	<1.5	<1.4	<1.7	<0.022	<0.019	21 J
POC-2S	6/21/2011	--	12	19	47J	<1.3	--	9.1J	6.3D	3.3D	<5
	12/15/2011	<13	18J	27J	71	<1.3	4.3J	<0.86	13D	2.2D	11J
	6/8/2012	<13	20J	29J	64	8.9J	4.7J	<0.82	16	<0.15	27J
	12/13/2012	5.9 B	19	29	94	<1.3	2.2 J	<0.80	18	11	230 B
	6/12/2013	< 63	< 53	< 70	53 J	24 J	< 7.0 *	38 J	15	5.2	17 J
	12/13/2013	<63	<53	<70	<33	<1.3 H	4.2 J H	18 H	14	5.1 p	43 J
POC-2D	06/21/2011	--	<0.5	<0.51	<0.13	<1.2	--	<0.78	0.033J	<0.0056	<5
	12/15/2011	<0.25	<0.21	<0.28	0.28J	<1.2	<0.67	<0.79	<0.0054	<0.0056	5.5J
	6/8/2012	<0.25	<0.21	<0.28	0.14J	<1.2	<0.66	<0.79	<0.0056	<0.0058	8.9J
	12/13/2012	<0.15	<0.19	<0.13	<0.17	<1.2	<0.67	<0.79	<0.0054	<0.0056	320 B
	6/12/2013	< 0.25	< 0.21	< 0.28	< 0.13	< 2.6	< 1.4 *	< 1.6	0.022 Jp	< 0.0057	< 5.0
	12/13/2013	<0.25	<0.21	<0.28	<0.13	<1.4 H	<1.3 H	<1.6 H	<0.022	<0.019	25 J
POC-3S	06/23/2011	1J	2.1J	3.1J	1000	<1.3	1.3J	<0.8	1.8	<0.029	<5
	12/15/2011	<0.5	1.9J	2.9	360	<1.5	<0.79	<0.93	1.1D	0.058	6.9J
	6/8/2012	<0.25	<0.21	<0.28	<0.13	<1.2	<0.67	<0.80	<0.0056	<0.0058	<5
	12/13/2012	1.5 B	4.8	6.9	410	<1.3	1.2 J	<0.81	1.9 Ep/2.3 D	0.24 p	230 B
	6/12/2013	< 0.25	0.33 J	0.50 J	5.2	< 1.4	< 1.3 *	< 1.6	0.27	< 0.019	< 5.0
	12/12/2013	<2.5	5.9 J	8.4 J	310	<1.4	<1.3	<1.6	1.5	<0.018	28 J
POC-3D	06/23/2011	<0.53	<0.5	<0.51	0.14J	<1.2	<0.66	<0.79	<0.0057	<0.0059	<5
	12/15/2011	<0.25	0.3J	<0.28	0.34J	<1.3	<0.7	<0.83	<0.0054	<0.0056	6.8J
	6/8/2012	<0.25	0.33 J	<0.28	0.13J	<1.2	<0.67	<0.80	<0.0054	<0.0056	12J
	12/13/2012	<0.15	0.36 J	<0.13	0.2 J	<1.2	<0.67	<0.79	<0.0054	<0.0056	460 B
	6/12/2013	< 0.25	0.32 J	< 0.28	0.17 J	< 1.4	< 1.3 *	< 1.6	< 0.022	< 0.019	5.5 J
	12/12/2013	<0.25	0.56 J	0.37 J	<0.13	<1.3	<1.2	<1.5	<0.021	<0.019	18 J
MW-3S	06/23/2011	--	<0.52	<0.53	<0.13	<1.3	--	<0.81	<0.0055	<0.0057	<5
	12/15/2011	--	<0.21	<0.28	<0.13	--	--	--	<0.0058	<0.006	--
	6/6/2012	<0.25	<0.21	<0.28	<0.13	<1.2	<0.66	<0.79	<0.0056	<0.0058	--
MW-3D	6/23/2011	--	5.4J	5.8J	1.3J	<1.2	--	<0.79	<0.0057	<0.0059	<5
	12/15/2011	--	7.7	8.1	15	--	--	--	<0.0054	<0.0056	--
	6/6/2012	<0.50	10	12	21	<1.2	<0.66	<0.78	<0.011	<0.011	--
	12/12/2013	<0.50	12	11	17	<1.3	<1.2	<1.5	<0.022	<0.019	11 J
MW-9S	06/22/2011	--	<0.53	<0.54	<0.65	<1.3	--	<0.83	<0.0055	<0.0057	<5
	12/16/2011	--	<0.21	<0.28	<0.13	--	--	--	<0.0055	<0.0057	--
	6/7/2012	<0.25	<0.21	<0.28	<0.13	<1.2	<0.67	<0.79	<0.0055	<0.0057	--
MW-9D	6/22/2011	--	3J	5.3J	0.29J	<1.3	--	29	<0.0055	<0.0057	<5
	12/16/2011	--	4J	7.7J	<1.3	--	--	--	<0.0057	<0.0059	--
	6/7/2012	<2.5	3.3J	7.6J	<1.3	<1.3	<0.69	16	<0.0054	<0.0056	--
	12/13/2012	<0.15	0.33 J	1.4	0.4 J	<1.2	<0.67	<0.79	<0.0054	<0.0056	99 B
	6/13/2013	< 0.25	< 0.21	1.4	< 0.13	< 1.3	< 1.2 *	< 1.5	< 0.46	< 0.39	< 5.0
	12/12/2013	<0.50	2.4	3.9	<0.26	<1.4	<1.3	<1.6	<0.022	<0.019	17 J
MW-10S	06/23/2011	--	<0.5	<0.51	<0.13	<1.2	--	<0.79	<0.0054	<0.0056	<5
	12/16/2011	<0.25	<0.21	<0.28	<0.13	<1.2	<0.67	<0.79	<0.0054	<0.0056	<5
	6/8/2012	<0.25	<0.21	<0.28	<0.13	<1.2	<0.67	<0.79	<0.0054	<0.0056	--

ADDITIONAL ORGANIC PARAMETERS
FORMER HERCULES BRUNSWICK FACILITY
BRUNSWICK, GA

Chemical Name:		1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,4-Dichlorobenzene	p-Cymene	3 & 4 Methylphenol	Naphthalene	Phenol	alpha-BHC	gamma-BHC (Lindane)	Formaldehyde
Report Result Unit:		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Well ID	Sampling Date										
MW-10D	06/23/2011	--	18	30	330J	3.4J	--	<0.79	<0.027	0.55	<5
	12/16/2011	<130	<110	<140	730	3.5J	<0.73	<0.86	<0.0057	<0.0059	<5
	06/08/2012	<130	<110	<140	530	<1.2	1.5J	3.0J	<0.11	<0.11	11J
	12/13/2012	0.58 JB	7.3	14	0.72 J	<1.2	<0.66	<0.79	<0.027	<0.028	590 B
	06/13/2013	< 130	< 110	< 140	490 J	< 1.2	1.5 J*	< 1.4	< 0.022	< 0.019	< 5.0
	12/12/2013	<130	<110	<140	520	<1.3	<1.2	<1.5	<0.021	<0.018	13 J
MW-11S	06/22/2011	--	<0.51	<0.52	<0.13	<1.2	--	<0.79	<0.0056	<0.0058	<5
	12/16/2011	--	<0.21	<0.28	<0.13	--	--	--	<0.0061	<0.0063	--
	6/6/2012	<0.25	<0.21	<0.28	<0.13	<1.2	<0.66	<0.79	<0.0054	<0.0056	--
MW-11D	6/22/2011	--	<0.53	<0.54	<0.13	<1.3	--	<0.83	<0.0056	<0.0058	<5
	12/16/2011	--	<0.21	<0.28	<0.13	--	--	--	<0.0059	<0.0061	--
	6/6/2012	<0.25	<0.21	<0.28	<0.13	<1.2	<0.66	<0.78	<0.0054	<0.0056	--
	12/12/2012	<0.25	<0.21	<0.28	<0.13	<1.2	<0.67	<0.79	<0.0054	<0.0056	43 J
	6/11/2013	< 0.25	< 0.21	< 0.28	< 0.13	< 1.3	< 1.2	< 1.5	< 0.021	< 0.018	10 J
	12/11/2013	<0.25	<0.21	<0.28	<0.13	<1.4	<1.3 *	<1.6	<0.021	<0.018	<5.0
MW-12S	6/22/2011	--	<0.55	<0.56	<0.13	<1.4	--	<0.86	<0.0055	<0.0057	<5
	12/15/2011	--	<0.21	<0.28	<0.13	--	--	--	<0.0055	<0.0057	--
	6/7/2012	<0.25	<0.21	<0.28	<0.13	<1.2	<0.67	<0.79	<0.0055	<0.0057	--
MW-12D	06/22/2011	--	<0.51	<0.52	0.14J	<1.3	--	<0.8	<0.0055	<0.0057	<5
	12/15/2011	--	<0.21	<0.28	0.15J	--	--	--	<0.0058	<0.006	--
	6/7/2012	<0.25	<0.21	<0.28	0.14J	<1.2	<0.66	<0.79	<0.0054	<0.0055	--
	12/12/2012	<0.25	<0.21	<0.28	<0.13	<1.2	<0.67	<0.79	<0.0055	<0.0057	49 J
	6/11/2013	< 0.25	< 0.21	< 0.28	< 0.13	< 1.2	< 1.1	< 1.4	< 0.022	< 0.019	< 5.0
	12/11/2013	<0.25	<0.21	<0.28	<0.13	<1.3	<1.2 *	<1.5	<0.022	<0.019	<5.0
MW-14S	06/23/2011	--	<0.51	<0.52	<0.13	<1.3	--	<0.8	<0.0054	<0.0056	<5
	12/16/2011	--	<0.21	<0.28	<0.13	--	--	--	<0.0056	<0.0058	--
MW-14D	06/23/2011	--	<0.5	<0.51	<0.13	<1.2	--	<0.79	<0.0054	<0.0056	<5
	12/16/2011	--	<0.21	<0.28	0.16J	--	--	--	<0.0058	<0.006	--
	06/08/2012	<0.25	0.22J	<0.28	0.19J	<1.2	<0.67	<20	<0.0055	<0.0057	--
	12/13/2012	<0.15	<0.19	<0.13	<0.17	<1.2	<0.67	<0.79	<0.0054	<0.0056	160 B
	12/13/2013	<0.25	<0.21	<0.28	<0.13	<1.3 H	<1.2 H	30 H	<0.022	<0.019	8.9 J
MW-19S	12/15/2011	--	<0.21	<0.28	--	--	--	--	<0.0056	<0.0058	--
MW-19I	12/15/2011	--	<0.21	<0.28	--	--	--	--	<0.0056	<0.0058	--
MW-19D	12/15/2011	--	<0.21	<0.28	--	--	--	--	<0.0052	<0.0054	--
MW-20S	6/22/2011	--	<0.52	<0.53	<0.13	<1.3	--	<0.81	<0.0055	<0.0057	<5
	12/14/2011	--	<0.21	<0.28	0.15J	--	--	--	<0.0059	<0.0062	--
	6/6/2012	<0.25	<0.21	<0.28	<0.13	<1.6	<0.84	<0.99	<0.0070	<0.0072	--
MW-20I	06/22/2011	--	<0.57	<0.58	<0.13	<1.4	--	<0.88	<0.0055	<0.0057	<5
	12/14/2011	--	<0.21	<0.28	<0.13	--	--	--	<0.0056	<0.0058	--
	6/6/2012	<0.25	<0.21	<0.28	<0.13	<1.3	<0.69	<0.81	<0.0056	<0.0058	--
	12/12/2012	<0.25	<0.21	<0.28	<0.13	<1.2	<0.67	<0.79	<0.0055	<0.0057	26 J
	12/10/2013	<0.25	<0.21	<0.28	<0.13	<1.3 *	<1.2 *	<1.5 *	<0.021	<0.019	18 J
MW-20D	06/22/2011	--	<0.51	<0.52	<0.65	<1.3	--	7.7J	<0.0055	<0.0057	<5
	12/14/2011	--	1.8J	3.4J	2.1J	--	--	--	<0.0054	<0.0056	--
	6/6/2012	<1.3	<1.1	<1.4	<0.65	<1.3	<0.69	<0.82	<0.0056	<0.0058	--
	12/12/2012	<1.3	<1.1	2.9 J	<0.65	<1.2	<0.67	<0.79	<0.0054	<0.0056	57
	6/13/2013	< 1.3	3.1 J	4.6 J	< 0.65	< 1.3	< 1.2 *	< 1.5	< 0.022	< 0.019	< 5.0
	12/13/2013	<5.0	10 J	19 J	13 J	<1.4 H	3.2 J H	12 H	<0.086	<0.075	22 J
MW-26S	06/23/2011	--	<0.52	<0.53	<0.13	<1.3	--	<0.81	<0.0056	<0.0057	<5
	12/14/2011	--	<0.21	<0.28	<0.13	--	--	--	<0.0055	<0.0057	--
	6/6/2012	<0.25	<0.21	<0.28	<0.13	<1.2	<0.66	<0.79	<0.0056	<0.0058	--
MW-26D	06/23/2011	--	<0.51	<0.52	<0.13	<1.2	--	<0.8	<0.0054	<0.0056	<5
	12/14/2011	--	<0.21	<0.28	<0.13	--	--	--	<0.0055	<0.0057	--
	6/6/2012	<0.25	<0.21	<0.28	<0.13	<1.2	<0.66	<0.78	<0.0054	<0.0056	--
	12/12/2012	<0.25	<0.21	<0.28	<0.13	<1.2	<0.67	<0.79	<0.0056	<0.0058	41 J
	6/11/2013	< 0.25	< 0.21	< 0.28	< 0.13	< 1.2	< 1.1	< 1.4	< 0.023	< 0.020	< 5.0
	12/11/2013	<0.25	<0.21	<0.28	<0.13	<1.4	<1.3 *	<1.6	<0.022	<0.019	<5.0
MW-28D	06/23/2011	--	4.4J	7.3J	44J	<1.3	--	<0.84	<0.027	1.9	<5
	12/16/2011	--	12J	22	82	--	--	--	<0.0056	<0.0058	--
	6/8/2012	<2.5	9.4J	17	41	<1.2	<0.66	2.3J	<0.11	<0.11	--
	12/14/2012	<0.15	9.1	16	2.5	<1.2	<0.67	<0.79	<0.0054	<0.0056	74
	6/13/2013	< 2.5	6.7 J	10	12	< 1.3	< 1.2 *	2.8 J	< 0.44	< 0.38	< 5.0
	12/13/2013	<2.5	9.3 J	17	31	<1.5 H	2.3 J H	7.1 J H	<0.087	<0.075	25 J
MW-29I	06/23/2011	--	<0.51	<0.52	<0.13	<1.2	--	<0.8	<0.0055	<0.0057	<5
	12/14/2011	--	<0.21	<0.28	<0.13	--	--	--	<0.0054	<0.0056	--
	6/6/2012	<0.25	<0.21	<0.28	<0.13	<1.2	<0.66	<0.78	<0.0056	<0.0058	--
	12/12/2012	<0.25	<0.21	<0.28	<0.13	<1.2	<0.67	<0.79	<0.0056	<0.0058	<5.0
	12/11/2013	<0.25	<0.21	<0.28	<0.13	<1.4	<1.3 *	<1.6	<0.022	<0.019	<5.0

ADDITIONAL ORGANIC PARAMETERS
FORMER HERCULES BRUNSWICK FACILITY
BRUNSWICK, GA

	Chemical Name:	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,4-Dichlorobenzene	p-Cymene	3 & 4 Methylphenol	Naphthalene	Phenol	alpha-BHC	gamma-BHC (Lindane)	Formaldehyde
	Report Result Unit:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Well ID	Sampling Date										
MW-29D	06/23/2011	--	4.8J	8.1J	3.5J	<1.3	--	<0.84	<0.028	0.39	<5
	12/14/2011	--	7J	13J	4.9J	--	--	--	<0.0055	<0.0057	--
	6/6/2012	<5	9.5J	11J	<2.6	<1.2	<0.66	0.91J	<0.022	<0.023	--
	12/12/2012	5.1 JB	<2.1	16	3.4 J	<1.2	<0.67	<0.79	<0.0054	<0.0056	48 J
	6/11/2013	< 0.50	3.5	6.3	0.95 J	< 13	< 12	< 15	< 0.022	< 0.019	6.8 J
	12/11/2013	<5.0	<4.2	15 J	<2.6	<1.4	<1.3 *	18	<0.022	<0.019	<5.0
MW-38S	06/22/2011	--	<0.51	<0.52	<0.13	<1.3	--	<0.8	<0.0055	<0.0057	<5
	12/14/2011	--	<0.21	<0.28	<0.13	--	--	--	<0.0056	<0.0058	--
	6/5/2012	<0.25	<0.21	<0.28	<0.13	<1.2	<0.67	<0.79	<0.0054	<0.0056	--
MW-38I	6/22/2011	--	<0.51	<0.52	<0.13	<1.2	--	<0.8	<0.0055	<0.0057	<5
	12/14/2011	--	<0.21	<0.28	<0.13	--	--	--	<0.006	<0.0062	--
	6/5/2012	<0.25	<0.21	<0.28	<0.13	<1.3	<0.68	<0.80	<0.0056	<0.0058	--
	12/12/2012	<0.25	<0.21	<0.28	<0.13	<1.2	<0.67	<0.79	<0.0057	<0.0059	<5.0
	12/11/2013	<0.25	<0.21	<0.28	<0.13	<1.4	<1.3 *	<1.6	<0.022	<0.019	<5.0
MW-38D	6/22/2011	--	0.94J	1.8J	<1.3	<1.3	--	15	<0.0055	<0.0057	<5
	12/14/2011	--	7.2J	12	12	--	--	--	<0.0058	<0.006	--
	6/5/2012	<1.3	2.2J	3.4J	<0.65	<1.2	<0.66	2.7J	<0.0054	<0.0056	--
	12/12/2012	<1.3	<1.1	1.6 J	<0.65	<1.2	0.78 J	<0.79	<0.0054	<0.0056	48 J
	6/11/2013	< 0.25	0.88 J	1.5	0.18 J	< 1.3	< 1.2	< 1.5	< 0.022	< 0.019	8.9 J
	12/11/2013	<2.5	12	19	10	<1.4	<1.3 *	14	<0.022	<0.019	<5.0
MW-39S	6/23/2011	--	<0.56	<0.57	<0.13	<1.4	--	<0.88	<0.0056	<0.0058	13J
	12/13/2011	--	<0.21	<0.28	<0.13	--	--	--	<0.0062	<0.0064	--
	6/5/2012	<0.25	<0.21	<0.28	<0.13	<1.2	<0.67	<0.8	<0.0054	<0.0056	--
	12/10/2012	<0.25	<0.21	<0.28	<0.13	<1.3	<0.72	<0.85	<0.0054	<0.0056	51
	12/10/2013	<0.25	<0.21	<0.28	<0.13	<1.4 *	<1.3 *	<1.6 *	<0.021	<0.018	70
MW-39I	06/23/2011	--	<0.51	<0.52	<0.13	<1.3	--	<0.8	<0.0055	<0.0057	<5
	12/13/2011	--	<0.21	<0.28	<0.13	--	--	--	<0.0057	<0.0059	--
	6/5/2012	<0.25	<0.21	<0.28	<0.13	<1.2	<0.66	<0.79	<0.0054	<0.0056	--
	12/10/2012	<0.25	<0.21	<0.28	<0.13	<1.2	<0.67	<0.79	<0.0054	<0.0056	5.3 J
	12/10/2013	<0.25	<0.21	<0.28	<0.13	<1.3 *	<1.2 *	<1.5 *	<0.022	<0.019	6.7 J
MW-39D	6/23/2011	--	<0.5	<0.51	<0.13	<1.2	--	<0.79	<0.0054	<0.0056	<5
	12/13/2011	--	<0.21	<0.28	<0.13	--	--	--	<0.0057	<0.0058	--
	6/5/2012	<0.25	<0.21	<0.28	<0.13	<1.2	<0.67	<0.79	<0.0056	<0.0058	--
	12/10/2012	<0.25	<0.21	<0.28	<0.13	<1.3	<0.68	<0.80	<0.0054	<0.0056	<5.0
	12/10/2013	<0.25	<0.21	<0.28	<0.13	<1.3 *	<1.2 *	<1.5 *	<0.022	<0.019	<5.0
MW-52D	12/11/2012	<0.25	<0.21	<0.28	<0.13	<1.5	<0.80	<0.95	<0.0054	0.058 p	8.8 J
	6/11/2013	< 0.25	< 0.21	< 0.28	< 0.13	< 1.3	< 1.2	< 1.5	< 0.022	< 0.019	< 5.0
	12/11/2013	<0.25	<0.21	<0.28	0.37 J	<1.4	<1.3 *	<1.6	<0.022	<0.019	<5.0
MW-55S	12/4/2013	<1.0*	<1.0	<1.0	<1.0	<2.1	<0.21 U	<1.0	<0.050	<0.050	<50
MW-55I	12/4/2013	<1.0*	<1.0	<1.0	<1.0	<1.9	<0.19 U	<0.97	<0.048	<0.048	<50
MW-55D	12/4/2013	<10	8.3 J	14	12	<19	<1.9 U	<9.5	0.090 p	<0.047	<50

Analytical Notes:

< - Not detected at or above indicated laboratory detection limit

UG/L - micrograms per liter

-- - No information available

J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value

D - Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D

p - The % RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

* - Relative percent difference of the lab control sample and lab control sample duplicate exceeds the control limits

- Table does not include results for duplicate samples.

- Analyses completed out of hold times were not included in the table.

Appendix J

Groundwater Sampling Records

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T Other: Delta	Facility Four Hercules	Site ID HP-111-50 A,B,C
	Project No.	Date (m/d/y) 3/30/10

Site Description ☐ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☑ Probe Other:

Air Temp: 60s ☐ °C ☐ °F	Weather: Sunny, Breezy
Well Locked? ☐ yes ☐ no NA	Damaged/Repairs Needed:
☐ TOC ☐ MP Description:	
TOC/MP Stickup: ☐ ft ☐ m above/below ground	Well Inside Diameter (ID): ☐ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data Measurement Units: ☐ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC:

☐ E-Tape, # ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)							
Depth to Water							
Tape Correction							
Water Level (WL)							
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Casing Volume: [_____(TD) - _____(WL)]•[_____(Well ID)]^2•[_____(Conversion Factor)] = _____ ☐ gal ☐ liters
Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☐ Pumping Rate	A 25'	B 45'	C 72'			(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)	930	1000	1030				HI9828	
pH (Temperature Corrected? ☑)	6.79	6.10	6.50					
Temperature ☑°C ☐°F	20.32	21.70	22.27					
Dissolved Oxygen mg/L	0.00	0.00	0.11					
☑ SC or ☐ EC µS/cm	783	869	1105					
Turbidity 0-4 ☐ NTU	1-2	1.5	1					
Color/Tint	H. grey	H. grey	H. grey					
Odor	--	Sulfur	--					
	--	--	--					

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
HP-111-50A	PO	3/30/10	930	5	NA				
HP-111-50B	PO	3/30/10	1000	5	NA				
HP-111-50C	PO	3/30/10	1030	5	NA				

Sample ID may be up to 15 characters. **Sample Result Code, Date, and Time must be entered.** Result Codes: PO, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) Chad Weaver	Signature

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T Other: Delta	Facility Fmr. Hercules	Site ID HP-711-51A
	Project No.	Date (m/d/y) 3/29/10

Site Description ☐ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☑ Probe Other:

Air Temp: 70s ☐ °C ☑ °F	Weather: Sunny
Well Locked? ☐ yes ☐ no	Damaged/Repairs Needed:
☐ TOC ☐ MP Description:	
TOC/MP Stickup: ☐ ft ☐ m above/below ground	Well Inside Diameter (ID): ☐ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data Measurement Units: ☐ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC:

☐ E-Tape, # _____ ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)							
Depth to Water							
Tape Correction							
Water Level (WL)							
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Casing Volume: [_____(TD) - _____(WL)] • [_____(Well ID)]^2 • [_____(Conversion Factor)] = _____ ☐ gal ☐ liters
Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☐ Pumping Rate						(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)	1545	~~1620~~						
pH (Temperature Corrected? ☐)	6.30							
Temperature ☑°C ☐°F	25.69							
Dissolved Oxygen mg/L	0.00							
☑SC or ☐ EC µS/cm	772							
Turbidity 0-4 ☐ NTU	2							
Color/Tint	Med Gray							
Odor	Sweet Sulfur							

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
HP-111-51A	PO	3/29/10	1545	5	NA				
~~HP-111-51B~~	~~PO~~	~~3/29/10~~	~~1620~~	~~5~~	~~NA~~				

Sample ID may be up to 15 characters. **Sample Result Code, Date, and Time must be entered.** Result Codes: PO, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) Chad Weaver	Signature

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T Other: Delta	Facility Fmr. Hercules	Site ID HP-111-52 1,BC
	Project No.	Date (m/d/y) 3/29/10

Site Description ☐ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☑ Probe Other:

Air Temp: 70s ☐ °C ☑ °F	Weather:
Well Locked? ☐ yes ☐ no N/A	Damaged/Repairs Needed:
☐ TOC ☐ MP Description:	
TOC/MP Stickup: ☐ ft ☐ m above/below ground	Well Inside Diameter (ID): ☐ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.) Tenyo Well	

Water Level Data Measurement Units: ☐ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC:

☐ E-Tape, # ____ ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)							
Depth to Water							
Tape Correction							
Water Level (WL)							
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Casing Volume: [_____(TD) - _____(WL)]•[_____(Well ID)]^2•[_____(Conversion Factor)] = _____ ☐ gal ☐ liters
Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☐ Pumping Rate	A 25'	B				(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)	1415	1430						
pH (Temperature Corrected? ☐)	6.68	6.76						
Temperature ☑ °C ☐ °F	25.71	25.75						
Dissolved Oxygen mg/L	1.84	0.00						
☑ SC or ☐ EC µS/cm	1444	945						
Turbidity 0-4 ☐ NTU	4	2						
Color/Tint	dark gray	Med gray						
Odor	sweet Sulfur	NA						

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
HP-111-52 A	PO	3/29/10	1415	5	NA				
HP-111-52 B	PO	3/29/10	1430	5	NA				

Sample ID may be up to 15 characters. **Sample Result Code, Date, and Time must be entered.** Result Codes: PO, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) Chad Wear	Signature

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T Other: C. Warner	Facility Former Hercules	Site ID HP-111-53 A B C
	Project No.	Date (m/d/y) 3/29/10

Site Description ☐ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☑ Probe Other:

Air Temp: 70's ☐ °C ☐ °F	Weather: Sunny
Well Locked? ☐ yes ☐ no N/A	Damaged/Repairs Needed: N/A
☐ TOC ☐ MP Description:	
TOC/MP Stickup: ☐ ft ☐ m above/below ground	Well Inside Diameter (ID): ☐ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data Measurement Units: ☐ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC:

☐ E-Tape, # _____ ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)							
Depth to Water							
Tape Correction							
Water Level (WL)							
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Casing Volume: [_____(TD) - _____(WL)]•[_____(Well ID)]^2•[_____(Conversion Factor)] = _____ ☐ gal ☐ liters
Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☐ Pumping Rate	A 25	B 47	C			(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)	1015	1050						
pH (Temperature Corrected? ☐)	6.02	6.89						
Temperature ☑ °C ☐ °F	25.76	26.09						
Dissolved Oxygen mg/L	0.14	0.00						
☑ SC or ☐ EC µS/cm	2491	852						
Turbidity 0-4 ~~☐ NTU~~	4	2						
Color/Tint	dark gray	lt. gray						
Odor	N/A	N/A						

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
HP-111-53 A	PO	3/29/10	1015	5	N/A				
HP-111-53 B	PO	3/29/10	1050	5	N/A				
~~HP-111-53 C~~									

Sample ID may be up to 15 characters. **Sample Result Code, Date, and Time must be entered.** Result Codes: PO, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) Chad Warner	Signature

Date Entered into Database _____ By _____ Page ___ of ___

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T Other: Delta	Facility Ashland-Bronzeville Terminal	Site ID HP-111-54A,B,C
	Project No.	Date (m/d/y) 3/31/10

Site Description

☐ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☑ ~~Probe~~ Other:

Air Temp: 70's ☐ °C ☑ °F	Weather: Sunny
Well Locked? ☐ yes ☐ no	Damaged/Repairs Needed:
☐ TOC ☐ MP Description:	
TOC/MP Stickup: ☐ ft ☐ m above/below ground	Well Inside Diameter (ID): ☐ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data

Measurement Units: ☐ ft ☐ m — Well or Borehole Total Depth (TD) from MP or TOC:

☐ E-Tape, # _____ ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)							
Depth to Water							
Tape Correction							
Water Level (WL)							
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data

Purge Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Casing Volume: [_____(TD) - _____(WL)] • [_____(Well ID)]^2 • [_____(Conversion Factor)] = _____ ☐ gal ☐ liters
Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☐ Pumping Rate	A 25'	B 45	C 402'			(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)	1040	1110	1330					
pH (Temperature Corrected? ☐)	6.62	6.45	6.78					
Temperature ☑°C ☐°F	25.54	26.39	27.04					
Dissolved Oxygen mg/L	0.00	0.00	0.00					
☑ SC or ☐ EC µS/cm	943	4412	5471					
Turbidity 0-4 ☐ NTU	3	2	3					
Color/Tint	med gray	med gray	dark gray					
Odor	NA	yes	yes					
			odor is undescribable					

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data

Sample Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
HP-111-54A	PO	3/31/10	1040	4	NA				
HP-111-54B	PO	3/31/10	1110	4	NA				
HP-111-54C	PO	3/31/10	1330	4	NA				

Sample ID may be up to 15 characters. **Sample Result Code, Date, and Time must be entered.** Result Codes: PO, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) Chad Wren	Signature

Date Entered into Database _____ By _____ Page ___ of ___

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T Other: Delta	Facility Fmr Hercules	Site ID MP-111-55 A,B,C
	Project No.	Date (m/d/y) 3/30/10

Site Description ☐ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☑ Probe Other:

Air Temp: 70's ☐ °C ☑ °F	Weather: Sunny
Well Locked? ☐ yes ☐ no	Damaged/Repairs Needed:
☐ TOC ☐ MP Description:	
TOC/MP Stickup: ☐ ft ☐ m above/below ground	Well Inside Diameter (ID): ☐ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data Measurement Units: ☐ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC:

☐ E-Tape, # _____ ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)							
Depth to Water							
Tape Correction							
Water Level (WL)							
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Casing Volume: [_____(TD) - _____(WL)] • [_____(Well ID)]^2 • [_____(Conversion Factor)] = _____ ☐ gal ☐ liters
Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches
Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☐ Pumping Rate	A -25'	B 45'	C 95'			(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)	1530	1600	800 (3/31)					
pH (Temperature Corrected? ☐)	~~7.05~~ 6.52	~~12 5~~ 7.28	6.56					
Temperature ☑°C ☐°F	25.05	25.65	18.16					
Dissolved Oxygen mg/L	0.00	0.00	0.00					
☑ SC or ☐ EC µS/cm	901	1260	14720					
Turbidity 0.4 ☐ NTU	3	3	1					
Color/Tint	med gray	med gray	H. gray					
Odor	-	-	-					

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MP-111-55A	PO	3/30/10	1530	3	NA				
MP-111-55B	PO	3/30/10	1600	3	NA				
MP-111-55C	PO	3/31/10	800	3	NA				

Sample ID may be up to 15 characters. **Sample Result Code, Date, and Time must be entered.** Result Codes: P0, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) C. Wacaster	Signature

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T Other: Delta	Facility Four Mercules	Site ID HP-111-56A
	Project No.	Date (m/d/y) 3/30/10

Site Description ☐ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☑ Probe Other:

Air Temp: 70? ☐ °C ☑ °F	Weather: Sunny
Well Locked? ☐ yes ☐ no	Damaged/Repairs Needed:
☐ TOC ☐ MP Description:	
TOC/MP Stickup: ☐ ft ☐ m above/below ground	Well Inside Diameter (ID): ☐ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data Measurement Units: ☐ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC:

☐ E-Tape, # _____ ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)							
Depth to Water							
Tape Correction							
Water Level (WL)							
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Casing Volume: [_____(TD) - _____(WL)]•[_____(Well ID)]^2•[_____(Conversion Factor)] = _____ ☐ gal ☐ liters
Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☐ Pumping Rate						(Final)	Meter Type	Remarks
	1.25							
Time (hh:mm; 24-hr clock)	1420							
pH (Temperature Corrected? ☐)	6.67							
Temperature ☑ °C ☐ °F	21.53							
Dissolved Oxygen mg/L	0.00							
☑ SC or ☐ EC µS/cm	230							
Turbidity 0-4 ☐ NTU	3							
Color/Tint	med gray							
Odor	Sweet Sulfur							

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
HP-111-56A	PO	3/30/10	1420	3	Ø				

Sample ID may be up to 15 characters. **Sample Result Code, Date, and Time must be entered.** Result Codes: P0, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) Chad Weaver	Signature

Date Entered into Database _____ By _____

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T Other: Delta	Facility Four Hercules	Site ID HP-111-57A,B,C
	Project No.	Date (m/d/y) 3/31/10

Site Description ☐ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☑ Probe Other:

Air Temp: 70s ☐ °C ☑ °F	Weather:
Well Locked? ☐ yes ☐ no	Damaged/Repairs Needed:
☐ TOC ☐ MP Description:	
TOC/MP Stickup: ☐ ft ☐ m above/below ground	Well Inside Diameter (ID): ☐ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data Measurement Units: ☐ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC:

☐ E-Tape, # _____ ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)							
Depth to Water							
Tape Correction							
Water Level (WL)							
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Casing Volume: [_____(TD) - _____(WL)] • [_____(Well ID)]^2 • [_____(Conversion Factor)] = _____ ☐ gal ☐ liters
Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches
Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☐ Pumping Rate	A-25	B-45	C-			(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)	1515	1630	1700					
pH (Temperature Corrected? ☐)	10.68	6.28	6.16					
Temperature ☑ °C ☐ °F	26.01	26.64	26.57					
Dissolved Oxygen mg/L	0.00	0.00	0.00					
☑ SC or ☐ EC µS/cm	6070	5013	4147					
Turbidity 0-4 ☐ NTU	4	2	2					
Color/Tint	dark grey	H. gray	H. gray					
Odor	yes	yes	yes					
	Strong	Moderate	moderate					

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
HP-111-57A	PO	3/31/10	1515	4	--				
HP-111-57B	PO	3/31/10	1630	4	--				
HP-111-57C	PO	3/31/10	1700	4	--				
HP-111-57-TW	PO	3/31/10	1000	3					

Sample ID may be up to 15 characters. **Sample Result Code, Date, and Time must be entered.** Result Codes: PO, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) Chad Weaver	Signature

Date Entered into Database _____ By _____ Page ___ of ___

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T Other: Delta	Facility Fmr. Hercules	Site ID HP-111-58-ABC
	Project No.	Date (m/d/y) 4/1/10

Site Description ☐ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☑ Probe Other:

Air Temp: 60's ☐ °C ☑ °F	Weather: Sunny
Well Locked? ☐ yes ☐ no	Damaged/Repairs Needed:
☐ TOC ☐ MP Description:	
TOC/MP Stickup: ☐ ft ☐ m above/below ground	Well Inside Diameter (ID): ☐ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data Measurement Units: ☐ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC:

☐ E-Tape, # ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)							
Depth to Water							
Tape Correction							
Water Level (WL)							
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Casing Volume: [_____(TD) - _____(WL)] • [_____(Well ID)]^2 • [_____(Conversion Factor)] = _____ ☐ gal ☐ liters
Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☐ Pumping Rate	A-25'	B-45'	C-75'			(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)	815	840	915					
pH (Temperature Corrected? ☐)	5.69	5.83	5.75					
Temperature ☑ °C ☐ °F	19.16	19.40	23.47					
Dissolved Oxygen mg/L	0.00	0.00	0.00					
☑ SC or ☐ EC µS/cm	1523	815	653					
Turbidity 0-4 ☐ NTU	4	4	2					
Color/Tint	Brackish	dark gray	lt. gray					
Odor	--	--	--					
		effervescent	artesian					

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
HP-111-58A	PO	4/1/10	815	3	--				
HP-111-58B	PO	4/1/10	840	3	--				
HP-111-58C	PO	4/1/10	915	3	--				

Sample ID may be up to 15 characters. **Sample Result Code, Date, and Time must be entered.** Result Codes: PO, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) Chad Weaver	Signature

Date Entered into Database _____ By _____ Page ___ of ___

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T Other: Delta	**Facility** Ashland Brunswick	**Site ID** UP-15
	Project No.	**Date** (m/d/y) 5-17-10

Site Description ● Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: ☐ °C ☐ °F	Weather:
Well Locked? ☐ yes ☐ no	Damaged/Repairs Needed:
☐ TOC ☐ MP Description:	
TOC/MP Stickup: ☐ ft ☐ m above/below ground	Well Inside Diameter (ID): ■ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data Measurement Units: ☐ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC:

☐ E-Tape, # _____ ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)							
Depth to Water							
Tape Correction							
Water Level (WL)							
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: ☐ Grab ☐ Bailer ■ Pump Description: Peristaltic Pump

Casing Volume: [13 (TD) - 6.78 (WL)] • [2 (Well ID)]² • [.041 (Conversion Factor)] = 1.02 ■ gal ☐ liters

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☐ Pumping Rate	1	2	3	4		(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)								
pH (Temperature Corrected? ☐)	5.15	5.16	5.16	5.16				
Temperature ☐°C ☐°F	20.32	20.51	20.51	20.49				
Dissolved Oxygen mg/L	8.77	5.79	5.02	4.99				
☐ SC or ☐ EC µS/cm	0.53	0.466	.465	.465				
Turbidity ☐ NTU	14	10.1	10.5	10				
Color/Tint	Blue/Grn	Bl/Grn	Bl/Grn	Clear				
Odor	—	—	—	—				

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
UP-15	PO	5-17-10	1400						

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) JEFF BOLLINS	Signature

Date Entered Into Database _____ By _____ Page ___ of ___

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T	Facility Ashland Brunswick	Site ID MW-35
Other: Delta	Project No.	Date (m/d/y) 5.17.02

Site Description ☒ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: ☐ °C ☒ °F	Weather: 87°
Well Locked? ☒ yes ☐ no	Damaged/Repairs Needed:
☐ TOC ☐ MP Description:	
TOC/MP Stickup: 2 ☒ ft ☐ m above/below ground	Well Inside Diameter (ID): ☒ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data Measurement Units: ☐ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC:

☐ E-Tape, # _____ ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)							
Depth to Water							
Tape Correction							
Water Level (WL)							
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice, record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed, P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: ☐ Grab ☐ Bailer ☒ Pump Description: Peristaltic Pump

Casing Volume: [13 (TD) - 6.12 (WL)] • [2 (Well ID)]² • [.04 (Conversion Factor)] = 1.13 ☒ gal ☐ liters
Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☐ Pumping Rate	0	1.25	2.5	3.75	5.0	(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)								
pH (Temperature Corrected? ☐)	6.53	6.44	6.34	6.28	6.27			
Temperature ☐°C ☐°F	21.26	21.33	21.34	21.32	21.32			
Dissolved Oxygen mg/L	9.81	8.54	7.48	7.12	7.10			
☐ SC or ☐ EC µS/cm	.215	.206	.199	.196	.195			
Turbidity ☐ NTU	460	176	51	29.2	9.1			
Color/Tint	lt brn	clear	clear	clear	clear			
Odor	—	—	—	—	—			

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW-35	PO	5.17	1610						

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) JEFF BEDNARZ	Signature

Date Entered into Database _____ By _____ Page ___ of ___

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T Other:	Facility Ashland Brunswick	Site ID MW-3D
	Project No.	Date (m/d/y) 5-17-10

Site Description ☐ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 83 ☐ °C ☒ °F Weather: M. Cloudy

Well Locked? ☒ yes ☐ no Damaged/Repairs Needed:

☒ TOC ☐ MP Description: Above ground

TOC/MP Stickup: 2 ☒ ft ☐ m above/below ground Well Inside Diameter (ID): ☒ 2-inch ☐ 4-inch Other:

Site Remarks (nearby wells pumping, tide, stream stage, etc.)

Water Level Data Measurement Units: ☐ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC:

☐ E-Tape, # _____ ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)							
Depth to Water	6.16						
Tape Correction							
Water Level (WL)							
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping, F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: ☐ Grab ☐ Bailer ☒ Pump Description: Monsoon

Casing Volume: [35 (TD) - 6.16 (WL)] • [2 (Well ID)]² • [.041 (Conversion Factor)] = 4.73 ☒ gal ☐ liters

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☒ Pumping Rate	0.75 g/m					(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)	Initial (mp)	1540	1550	1600	1610		Horiba	
pH (Temperature Corrected? ☐)	7.31	7.36	6.51	6.27	6.27			
Temperature ☒ °C ☐ °F	22.16	22.25	22.05	22.12	22.14			
Dissolved Oxygen mg/L	0.52	0.37	1.35	1.35	1.23			
☐ SC or ☐ EC µS/cm	8.41	7.72	9.07	9.55	9.23			
Turbidity ☐ NTU	—	=	27.9	0.0	0.0			
Color/Tint	yellow	clear	clear	clear	clear			
Odor	slight	slight	slight	slight	slight			

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 imperial gallon

Sample Data Sample Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW-3D	PO	5-17-10	1615						

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) Fred Vanderpanner	Signature

Date Entered Into Database _____ By _____ Page ___ of ___

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD UP-1D(R)

Sampled By ☐ Facility Personnel ☐ ES&T	Facility Ashland Brunswick	Site ID [redacted]
Other: FK	Project No. J09848509.002	Date (m/d/y) 5.17.10

Site Description ☒ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 82 ☐ °C ☒ °F	Weather: Rain / Clouds
Well Locked? ☒ yes ☐ no	Damaged/Repairs Needed:
☒ TOC ☐ MP Description:	Above ground
TOC/MP Stickup: 2 ☒ ft ☐ m above/below ground	Well Inside Diameter (ID): ☒ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data Measurement Units: ☐ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC:

☐ E-Tape, # _____ ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)							
Depth to Water	10.00						
Tape Correction							
Water Level (WL)							
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: 77 Ft ☐ Grab ☐ Bailer ☒ Pump Description: Monsoon

Casing Volume: [97.5 (TD) - 10.0 (WL)] * [2 (Well ID)]² * [.041 (Conversion Factor)] = 14.35 ☒ gal ☐ liters

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in Inches

Well Goes Dry While Purging ☐

☒ Cum. Vol. Purged ☒ Pumping Rate	0.75 gpm 2.0					(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)	1300	1315	1325	1335	1350	1405	Horiba	
pH (Temperature Corrected? ☐)	8.98	8.02	7.95	8.39	8.29	8.24		
Temperature ☒ °C ☐ °F	22.23	22.34	22.30	22.37	22.40	22.34		
Dissolved Oxygen mg/L	4.22	2.21	0.65	0.42	0.00	0.00		
☐ SC or ☐ EC µS/cm	.794	.617	85.2	22.1	10.7	12.4		
Turbidity ☐ NTU	14.3	11.6	9.4	9.0	8.5	8.3		
Color/Tint	Clear	Clear	Clear	Clear	Clear	Clear		
Odor	Ø	Ø	Ø	Ø	Ø	Ø		

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
UP-1D(R)	PO	5.17.10	1410						

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) Fred Koenigbauer Signature

Date Entered Into Database _____ By _____ Page ___ of ___

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T Other: Delta	Facility Ashland Bernewick	Site ID MW-23
	Project No.	Date (m/d/y) 5-18-10

Site Description ☐ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: ☐ °C ☒ °F	Weather: 75°
Well Locked? ☒ yes ☐ no	Damaged/Repairs Needed:
☐ TOC ☐ MP Description:	
TOC/MP Stickup: ☐ ft ☐ m above/below ground	Well Inside Diameter (ID): ☒ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data Measurement Units: ☐ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC:

☐ E-Tape, # _____ ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)							
Depth to Water							
Tape Correction							
Water Level (WL)							
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: ☐ Grab ☐ Bailer ☒ Pump Description: Peristaltic Pump

Casing Volume: [14.18 (TD) - 6.72 (WL)] • [2 (Well ID)]² • [.1041 (Conversion Factor)] = 2.04 ☐ gal ☐ liters
Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☐ Pumping Rate	2.04	4.08	6.12	8.16		(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)								
pH (Temperature Corrected? ☐)	5.26	5.35	5.35	5.35				
Temperature ☐°C ☐°F	21.12	21.12	21.10	21.10				
Dissolved Oxygen mg/L	3.69	3.84	3.82	3.70				
☐ SC or ☐ EC µS/cm	0.77	0.772	.765	.757				
Turbidity ☐ NTU	120	93.2	35.7	10				
Color/Tint	Green	Grn	Grn	Grn				
Odor	Strong	—	—	—				

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW-23	PO	5-18-10	20:30						

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; DI, Duplicate Sample; SI, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) JEFF BARNES	Signature

Date Entered into Database _____ By _____ Page ___ of ___

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T Other: Delta	Facility Ashland Brunswick	Site ID MW-125
	Project No.	Date (m/d/y) 5/18/10

Site Description ☐ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: ☐ °C ☒ °F	Weather: 87°
Well Locked? ☒ yes ☐ no	Damaged/Repairs Needed:
☐ TOC ☐ MP Description:	
TOC/MP Stickup: 2 ☒ ft ☐ m above/below ground	Well Inside Diameter (ID): ☒ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data Measurement Units: ☐ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC:

☐ E-Tape, # _____ ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)							
Depth to Water							
Tape Correction							
Water Level (WL)							
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed, P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: ☐ Grab ☐ Bailer ☒ Pump Description: Peristaltic Pump

Casing Volume: [20.5 (TD) - 6.73 (WL)] • [2 (Well ID)]² • [.04 (Conversion Factor)] = 2.25 ☒ gal ☐ liters

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in Inches

Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☐ Pumping Rate						(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)								
pH (Temperature Corrected? ☐)	5.84	5.75	5.73					
Temperature ☐°C ☐°F	20.16	20.15	20.12					
Dissolved Oxygen mg/L	4.51	4.22	4.23					
☐ SC or ☐ EC µS/cm	.187	.208	.189					
Turbidity ☐ NTU	89	15.5	7.8					
Color/Tint	colorless	colorless	colorless					
Odor	Strong	→	→					

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW-125	PO	5.18.10	1540						

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) Jeff Bodine	Signature

Date Entered Into Database _____ By _____ Page ___ of ___

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T Other: Delta	**Facility** Ashland Brunswick	**Site ID** MW-24
	Project No.	**Date** (m/d/y) 5-18-10

Site Description ☐ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: ☐ °C ☒ °F	Weather: 70°
Well Locked? ☒ yes ☐ no	Damaged/Repairs Needed:
☐ TOC ☐ MP Description:	
TOC/MP Stickup: ☐ ft ☐ m above/below ground	Well Inside Diameter (ID): ☒ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data Measurement Units: ☐ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC:

☐ E-Tape, # _____ ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)							
Depth to Water							
Tape Correction							
Water Level (WL)							
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: ☐ Grab ☐ Bailer ☒ Pump Description: Peristaltic Pump

Casing Volume: [14.87 - 7.11 (WL)] • [2 (Well ID)]² • [.041 (Conversion Factor)] = 2.08 ☒ gal ☐ liters

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in Inches

Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☐ Pumping Rate						(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)								
pH (Temperature Corrected? ☐)	5.76	5.82	5.85	5.84				
Temperature ☐°C ☐°F	22.76	22.71	22.68	22.67				
Dissolved Oxygen mg/L	4.92	3.14	3.07	2.95				
☐ SC or ☐ EC µS/cm	1.48	1.45	1.41	1.40				
Turbidity ☐ NTU	48.1	52	14.5	9				
Color/Tint	Green	Grn	Grn	Grn				
Odor	Strong	Strong	→	→				

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW-24	P0	5-18-10	1935						

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: P0, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) JEFF [redacted]	Signature

Date Entered Into Database _____ By _____ Page ___ of ___

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T Other: Delta	Facility Ashland Brunswick	Site ID MW-22
	Project No.	Date (m/d/y) 5/18/10

Site Description ☐ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: ☐ °C ☒ °F	Weather: >40°
Well Locked? ☑ yes ☐ no	Damaged/Repairs Needed:
☐ TOC ☐ MP Description:	
TOC/MP Stickup: ☐ ft ☐ m above/below ground	Well Inside Diameter (ID): ☑ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data Measurement Units: ☐ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC:

☐ E-Tape, # ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)							
Depth to Water							
Tape Correction							
Water Level (WL)							
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: ☐ Grab ☐ Bailer ☒ Pump Description: Peristaltic Pump

Casing Volume: [14.67 (TD) - 1.81 (WL)] • [2 (Well ID)]² • [.041 (Conversion Factor)] = ~1.1 ☐ gal ☐ liters

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☐ Pumping Rate			(Final)				Meter Type	Remarks
Time (hh:mm; 24-hr clock)								
pH (Temperature Corrected? ☐)	5.52	5.58	5.60					
Temperature ☐°C ☐°F	21.08	21.15	21.16					
Dissolved Oxygen mg/L	2.76	2.62	2.49					
☐ SC or ☐ EC µS/cm	1.99	1.96	1.93					
Turbidity ☐ NTU	79.4	14.4	6.3					
Color/Tint	Green	Grn	Grn					
Odor	Strong	→	→					

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW-22	PO	5/18/10	2120						

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) JEFF BEDINGS	Signature

Date Entered Into Database _____ By _____ Page ___ of ___

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T Other: Delta	**Facility** Ashland Brunswick	**Site ID** MW-21
	Project No.	**Date** (m/d/y) 5/18/10

Site Description ☐ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: ☐ °C ☒ °F	Weather: 80
Well Locked? ☒ yes ☐ no	Damaged/Repairs Needed:
☐ TOC ☐ MP Description:	
TOC/MP Stickup: 36 [redacted] ☐ m above/below ground	Well Inside Diameter (ID): ☒ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data Measurement Units: ☐ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC:

☐ E-Tape, # ____ ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)							
Depth to Water							
Tape Correction							
Water Level (WL)							
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: ☐ Grab ☐ Bailer ☒ Pump Description: Peristaltic Pump

Casing Volume: [14.95 (TD) - 2.03 (WL)] • [2 (Well ID)]² • [.041 (Conversion Factor)] = 2.12 ☐ gal ☐ liters

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in Inches

Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☐ Pumping Rate						(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)								
pH (Temperature Corrected? ☐)	6.18	6.3	6.29	6.28				
Temperature ☐°C ☐°F	21.74	21.78	21.78	21.76				
Dissolved Oxygen mg/L	3.53	3.34	3.27	3.21				
☐ SC or ☐ EC µS/cm	1.38	1.39	1.36	1.37				
Turbidity ☐ NTU	52.8	31.3	27.9	7.7				
Color/Tint	Green	Grn	Grn	Grn				
Odor	Strong	—	—	—				

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 imperial gallon

Sample Data Sample Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW-21	PO	5/18/10	1845						

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank: BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) JEFF BODINE	Signature

Date Entered Into Database _____ By _____

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T Other:	Facility Rolland Brunswick	Site ID MW-265
	Project No.	Date (m/d/y) 5/18/10

Site Description ☐ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: ☐ °C ☒ °F	Weather: 84
Well Locked? ☒ yes ☐ no	Damaged/Repairs Needed:
☐ TOC ☐ MP Description:	
TOC/MP Stickup: 2 ☒ ft ☐ m above/below ground	Well Inside Diameter (ID): ☒ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data Measurement Units: ☐ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC:

☐ E-Tape, # _____ ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)							
Depth to Water							
Tape Correction							
Water Level (WL)							
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: ☐ Grab ☐ Bailer ☒ Pump Description: Peristaltic Pump

Casing Volume: [16 (TD) - 4.64 (WL)] • [2 (Well ID)]² • [.04 (Conversion Factor)] = 1.86 ☒ gal ☐ liters

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☐ Pumping Rate						(Final)	Meter Type	Remarks
	1.86	3.72	5.58	7.44				
Time (hh:mm; 24-hr clock)								
pH (Temperature Corrected? ☐)	6.31	6.29	6.29	6.29				
Temperature ☐°C ☐°F	22.74	22.72	22.73	22.72				
Dissolved Oxygen mg/L	4.06	3.03	2.91	2.99				
☐ SC or ☐ EC µS/cm	0.632	0.673	.636	.630				
Turbidity ☐ NTU	46	33	26.5	10				
Color/Tint	colorless	colorless	colorless	colorless				
Odor	Strong	→	→	→				

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW-265	PO	5/18/10	1700						

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) JEFF BODINUS	Signature

Date Entered into Database _____ By _____ Page ___ of ___

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T Other: Delta	Facility Ashland Brunswick	Site ID MW-11S
	Project No.	Date (m/d/y) 5-18-10

Site Description ☐ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: ☐ °C ☐ °F	Weather:
Well Locked? ☑ yes ☐ no	Damaged/Repairs Needed:
☐ TOC ☐ MP Description:	
TOC/MP Stickup: 2 ☑ ft ☐ m above/below ground	Well Inside Diameter (ID): ☑ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data Measurement Units: ☐ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC:

☐ E-Tape, # _____ ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)							
Depth to Water							
Tape Correction							
Water Level (WL)							
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice, record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured, D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement, use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: ☐ Grab ☐ Bailer ☑ Pump Description: Peristaltic Pump

Casing Volume: [20.6 (TD) - 6.32 (WL)] * [2 (Well ID)]² * [.09 (Conversion Factor)] = 2.33 ☐ gal ☐ liters
Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches
Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☐ Pumping Rate			(Final)				Meter Type	Remarks
Time (hh:mm; 24-hr clock)								
pH (Temperature Corrected? ☐)	7.01	7.03	7.03					
Temperature ☐°C ☐°F	21.8	21.7	21.71					
Dissolved Oxygen mg/L	5.23	3.75	3.52					
☐ SC or ☐ EC µS/cm	.581	.518	.513					
Turbidity ☐ NTU	68	35.5	9.6					
Color/Tint	clear	clear	clear					
Odor	slight	→	→					

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C). EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW-11S	PO	5-18-10	1230						

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) JEFF BODINUS	Signature

Date Entered Into Database _____ By _____ Page ___ of ___

DELTA CONSULTANTS **GROUNDWATER SAMPLING RECORD**

Sampled By ☐ Facility Personnel ☐ ES&T Other: Delta | **Facility** Ashland Brunswick | **Site ID** MW-205
Project No. | **Date (m/d/y)** 5.18.10

Site Description ☐ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: ☐ °C ☒ °F Weather: 88
Well Locked? ☒ yes ☐ no Damaged/Repairs Needed:
☐ TOC ☐ MP Description:
TOC/MP Stickup: 2 ☒ ft ☐ m above/below ground Well Inside Diameter (ID): ☒ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)

Water Level Data Measurement Units: ☐ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC:

☐ E-Tape, # ___ ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)							
Depth to Water							
Tape Correction							
Water Level (WL)							
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes. N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: ☐ Grab ☐ Bailer ☒ Pump Description: Peristaltic Pump

Casing Volume: [15 (TD) - 7.22 (WL)] • [2 (Well ID)]² • [.041 (Conversion Factor)] = 1.28 ■ gal ☐ liters
Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches
Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☐ Pumping Rate	1.28	2.56	3.84	5.12		(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)								
pH (Temperature Corrected? ☐)	7.53	6.13	6.17	6.12				
Temperature ☐°C ☐°F	22.5	22.38	22.4	22.25				
Dissolved Oxygen mg/L	5.18	4.01	3.5	3.35				
☐ SC or ☐ EC µS/cm	0.8	.799	.781	.769				
Turbidity ☐ NTU	72.3	65.2	41.5	10				
Color/Tint	Green	Grn	Grn	light Grn				
Odor	strong	———	———	——→				

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW-205	P0	5-18-10	1400						

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: P0, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) JEFF BODINUS | Signature [signature]

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T Other: Delta	**Facility** Asland Brunswick	**Site ID** MW-10S
	Project No.	**Date** (m/d/y) 5-18-10

Site Description ☐ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: ☐ °C ☒ °F	Weather: 81°
Well Locked? ☐ yes ☐ no	Damaged/Repairs Needed:
☐ TOC ☐ MP Description:	
TOC/MP Stickup: 2 ☒ ft ☐ m above/below ground	Well Inside Diameter (ID): ☒ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data Measurement Units: ☐ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC:

☐ E-Tape, # _____ ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)							
Depth to Water							
Tape Correction							
Water Level (WL)							
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: ☐ Grab ☐ Bailer ☒ Pump Description: Peristaltic Pump

Casing Volume: [20 (TD) - 6.82 (WL)] • [2 (Well ID)]² • [.64 (Conversion Factor)] = 2.16 ☒ gal ☐ liters

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☐ Pumping Rate	2.16 ~~0.72~~	4.32	6.48	8.64		(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)								
pH (Temperature Corrected? ☐)	6.7	6.71	6.71	6.71				
Temperature ☒°C ☐°F	23.35	23.4	23.38	23.44				
Dissolved Oxygen mg/L	3.7	3.4	3.42	3.42				
☐ SC or ☐ EC µS/cm	1.36	1.27	1.21	1.24				
Turbidity ☐ NTU	250	235	90	10				
Color/Tint	clear	clear	clear	clear				
Odor	slight	—	—	→				

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW-10S	PO	5-18-10	1000						

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 8 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) JEFF BODINUS	Signature

Date Entered Into Database _____ By _____ Page ___ of ___

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T Other:	Facility Ashland Brunswick	Site ID MW-95
	Project No. MW-95	Date (m/d/y) 5/18/10

Site Description ☐ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: ☐ °C ☒ °F	Weather: 84°
Well Locked? ☐ yes ☐ no	Damaged/Repairs Needed:
☐ TOC ☐ MP Description:	
TOC/MP Stickup: 2 ☒ ft ☐ m above/below ground	Well Inside Diameter (ID): ☒ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data Measurement Units: ☐ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC:

☐ E-Tape, # ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)							
Depth to Water							
Tape Correction							
Water Level (WL)							
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: ☐ Grab ☐ Bailer ☒ Pump Description: Peristaltic Pump

Casing Volume: [20.15 (TD) - 5.9 (WL)] • [2 (Well ID)]² • [.041 (Conversion Factor)] = 2.34 ☒ gal ☐ liters

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☐ Pumping Rate			(Final)				Meter Type	Remarks
Time (hh:mm; 24-hr clock)								
pH (Temperature Corrected? ☐)	6.15	6.08	6.08					
Temperature ☐°C ☐°F	23.43	23.16	23.17					
Dissolved Oxygen mg/L	5.2	5.01	4.64					
☐ SC or ☐ EC µS/cm	0.67	.625	.615					
Turbidity ☐ NTU	2.5	35	8					
Color/Tint	clear	clear	clear					
Odor	slight	→	→					

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW-95	PO	5.18.10	1130						

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) JEFF BODENUS	Signature

Date Entered into Database _____ By _____ Page ___ of ___

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T Other:	Facility Ashland Brunswick	Site ID MW-12D
	Project No.	Date (m/d/y) 5-18-10

Site Description ☐ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 75 ☐ °C ☒ °F Weather: M. Cloudy

Well Locked? ☒ yes ☐ no Damaged/Repairs Needed:

☒ TOC ☐ MP Description: Above ground

TOC/MP Stickup: 3 ☒ ft ☐ m above/below ground Well Inside Diameter (ID): ☒ 2-inch ☐ 4-inch Other:

Site Remarks (nearby wells pumping, tide, stream stage, etc.)

Water Level Data Measurement Units: ☐ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC:

☐ E-Tape, # _____ ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)							
Depth to Water	8.55						
Tape Correction							
Water Level (WL)							
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: ☐ Grab ☐ Bailer ☒ Pump Description: Monsoon

Casing Volume: [104.5 (TD) - 8.55 (WL)] • [2 (Well ID)]² • [.041 (Conversion Factor)] = 15.74 ☒ gal ☐ liters

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☒ Pumping Rate	.70 l/m	→	→	→		(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)	2010	2020	2030	2040				
pH (Temperature Corrected? ☐)	7.18	7.19	7.19	7.19				
Temperature ☐ °C ☐ °F	22.19	22.17	22.16	22.14				
Dissolved Oxygen mg/L	0.87	0.77	0.72	0.68				
☐ SC or ☐ EC µS/cm	22.9	22.9	22.9	23.0				
Turbidity ☐ NTU	Ø	Ø	Ø	Ø				Malfunction Sensor
Color/Tint	clear/yellow	→	→	→				
Odor	Slight	→	→	→				

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW-12D	PO	5-18-10	2045						

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) Fred Koenigbauer	Signature

Date Entered Into Database _____ By _____ Page ___ of ___

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T Other:	Facility Ashland Brunswick	Site ID ~~BRO~~POC-1D
	Project No.	Date (m/d/y) 5.18.10

Site Description ☒ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 77 ☐ °C ☒ °F Weather: P. Sunny

Well Locked? ☒ yes ☐ no Damaged/Repairs Needed:

☒ TOC ☐ MP Description: Above ground

TOC/MP Stickup: 3 ☒ ft ☐ m above/below ground Well Inside Diameter (ID): ☐ 2-inch ☐ 4-inch Other:

Site Remarks (nearby wells pumping, tide, stream stage, etc.)

Water Level Data Measurement Units: ☐ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC:

☐ E-Tape, # ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)							
Depth to Water	10.82						
Tape Correction							
Water Level (WL)							
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: ☐ Grab ☐ Bailer ☒ Pump Description: Monsoon

Casing Volume: [107 (TD) - 10.82 (WL)] • [2 (Well ID)]^2 • [.041 (Conversion Factor)] = _____ ☒ gal ☐ liters

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☒ Pumping Rate						(Final)	Meter Type	Remarks
	~7 gpm	→	→	→				
Time (hh:mm; 24-hr clock)	1920	1930	1940	1950				
pH (Temperature Corrected? ☐)	7.79	7.82	7.84	7.85				
Temperature ☐ °C ☐ °F	26.31	26.30	26.27	26.25				
Dissolved Oxygen mg/L	0.75	0.72	0.71	0.68				
☐ SC or ☐ EC µS/cm	10.8	10.7	10.6	10.5				
Turbidity ☐ NTU	Ø	Ø	Ø	Ø				
Color/Tint	Clear	→	→	→				
Odor	Slight	→	→	→				

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
POC-1D	PO	5.18.10	1955						

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; DE, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) Fred Koenigbauer Signature

Date Entered Into Database _____ By _____ Page ___ of ___

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T Other:	Facility Ashland Brunswick	Site ID MW-36D
	Project No.	Date (m/d/y) 5-18-10

Site Description ☐ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 83 ☐ °C ☒ °F	Weather: M. Sunny
Well Locked? ☒ yes ☐ no	Damaged/Repairs Needed:
☒ TOC ☐ MP Description:	Above ground
TOC/MP Stickup: 3 ☒ ft ☐ m above/below ground	Well Inside Diameter (ID): ☒ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data Measurement Units: ☐ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC:

☐ E-Tape, # ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)							
Depth to Water	10.77						
Tape Correction							
Water Level (WL)							
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Casing Volume: [91 (TD) - 10.77 (WL)] • [2 (Well ID)]² • [.041 (Conversion Factor)] = 13.16 ☒ gal ☐ liters
Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in Inches

Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☒ Pumping Rate	.75 gpm					(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)	1805	1815	1825	1835			Horiba	
pH (Temperature Corrected? ☐)	6.80	6.81	6.82	6.82				
Temperature ☐°C ☐°F	22.37	22.42	22.51	22.54				
Dissolved Oxygen mg/L	0.48	0.47	0.46	0.45				
☐ SC or ☐ EC µS/cm	Ø	Ø	Ø	Ø				Sensor Malfunction
Turbidity ☐ NTU	Ø	Ø	Ø	Ø				Sensor Malfunction
Color/Tint	Clear	→	→	→				
Odor	Slight	→	→	→				

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW-36D	PO	5-18-10	1846						

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) Fred Koenigbauer	Signature

Date Entered Into Database _____ By _____ Page ___ of ___

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T Other:	**Facility** Ashland Brunswick	**Site ID** MW-26D
	Project No.	**Date** (m/d/y) 5-18-10

Site Description ☐ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 85 ☐ °C ☒ °F Weather: M. Cloudy

Well Locked? ☒ yes ☐ no Damaged/Repairs Needed:

☒ TOC ☐ MP Description: Flush Mt.

TOC/MP Stickup: ☐ ft ☐ m above/below ground Well Inside Diameter (ID): ☒ 2-inch ☐ 4-inch Other:

Site Remarks (nearby wells pumping, tide, stream stage, etc.)

Water Level Data

Measurement Units: ☐ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC:

☐ E-Tape, # ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)							
Depth to Water	4.68						
Tape Correction							
Water Level (WL)							
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data

Purge Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Casing Volume: [90 (TD) - 4.68 (WL)] • [2 (Well ID)]² • [.041 (Conversion Factor)] = 14.0 ☒ gal ☐ liters

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☒ Pumping Rate						(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)	1640	1650	1700	1710				
pH (Temperature Corrected? ☐)	7.55	7.54	7.54	7.53				
Temperature ☐ °C ☐ °F	23.40	23.40	23.38	23.37				
Dissolved Oxygen mg/L	1.10	0.99	0.95	0.90				
☐ SC or ☐ EC µS/cm	9.0	9.0	9.92	9.7				sensor maybe malfun/
Turbidity ☐ NTU	Ø	Ø	Ø	Ø				sensor malfunction
Color/Tint	Clear →							
Odor	Slight →							

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data

Sample Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW-26D	PO	5-18-10	1720						

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) Fred Koenigbauer Signature

Date Entered Into Database _____ By _____ Page ___ of ___

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T Other:	Facility Ashland Brunswick	Site ID MW-29D
	Project No.	Date (m/d/y) 5.18.10

Site Description ☐ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 85 ☐ °C ☒ °F	Weather: M. Sunny
Well Locked? ☒ yes ☐ no	Damaged/Repairs Needed:
☒ TOC ☐ MP Description:	Above ground
TOC/MP Stickup: 3 ☒ ft ☐ m above/below ground	Well Inside Diameter (ID): ☒ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data Measurement Units: ☐ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC:

☐ E-Tape, # _____ ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)							
Depth to Water	6.88						
Tape Correction							
Water Level (WL)							
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice, record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured, D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: 60 ft ☐ Grab ☐ Bailer ☒ Pump Description: Monsoon

Casing Volume: [89.8 (TD) - 6.88 (WL)] • [2 (Well ID)]² • [.04 (Conversion Factor)] = 13.6 ☒ gal ☐ liters

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☒ Pumping Rate						(Final)	Meter Type	Remarks
	.75 g/m	→	→	→				
Time (hh:mm; 24-hr clock)	1530	1540	1550	1600			Horiba	
pH (Temperature Corrected? ☐)	7.23	7.26	7.24	7.23				
Temperature ☐ °C ☐ °F	27.66	22.90	23.10	23.07				
Dissolved Oxygen mg/L	1.13	1.07	1.04	1.0				
☐ SC or ☐ EC µS/cm	16.4	13.9	12.5	11.7				
Turbidity ☐ NTU	30.0	0	0	0				sensor malfunction
Color/Tint	Clear	Clear	→					
Odor	0	Slight	→					

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 imperial gallon

Sample Data Sample Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW-29D	PO	5.18.10	1610						

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) Fred Koenigbauer	Signature

Date Entered Into Database _____ By _____ Page ___ of ___

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T	Facility Ashland Brunswick	Site ID MW-29I
Other:	Project No.	Date (m/d/y) 5.18.10

Site Description ☐ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 85 ☐ °C ☒ °F	Weather: M-Sunny
Well Locked? ☒ yes ☐ no	Damaged/Repairs Needed:
☒ TOC ☐ MP Description: Above ground	
TOC/MP Stickup: 3 ☒ ft ☐ m above/below ground	Well Inside Diameter (ID): ☐ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data Measurement Units: ☐ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC:

☐ E-Tape, # ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)							
Depth to Water	6.30						
Tape Correction							
Water Level (WL)							
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed, P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: 35 ft ☐ Grab ☐ Bailer ☒ Pump Description: Monsoon

Casing Volume: [50.5 (TD) - 6.30 (WL)] • [2 (Well ID)]² • [.04 (Conversion Factor)] = 7.25 ☒ gal ☐ liters

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☒ Pumping Rate						(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)	1445	1455	1505					
pH (Temperature Corrected? ☐)	7.83	7.79	7.80					
Temperature ☐°C ☐°F	27.90	23.14	23.10					
Dissolved Oxygen mg/L	0.34	0.37	0.40					
☐ SC or ☐ EC µS/cm	Ø	Ø	Ø					
Turbidity ☐ NTU	2.5	2.3	2.1					
Color/Tint	clear	→	→					
Odor	Ø	→	→					

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW-29I	PO	5.18.10	1510						

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) Fred Koenigbauer	Signature

Date Entered Into Database _____ By _____ Page ___ of ___

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T Other:	Facility Ashland Brunswick	Site ID MW-20D
	Project No.	Date (m/d/y) 5-18-10

Site Description ☒ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 85 ☐ °C ☒ °F Weather: M. Sunny

Well Locked? ☒ yes ☐ no Damaged/Repairs Needed:

☒ TOC ☐ MP Description: Above ground

TOC/MP Stickup: 2 ☒ ft ☐ m above/below ground Well Inside Diameter (ID): ☒ 2-inch ☐ 4-inch Other:

Site Remarks (nearby wells pumping, tide, stream stage, etc.)

Water Level Data Measurement Units: ☐ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC:

☐ E-Tape, # _____ ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)							
Depth to Water	7.64						
Tape Correction							
Water Level (WL)							
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: ☐ Grab ☐ Bailer ☒ Pump Description: Monsoon

Casing Volume: [90 (TD) - 7.64 (WL)] • [2 (Well ID)]² • [.041 (Conversion Factor)] = 13.5 ☒ gal ☐ liters

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☒ Pumping Rate						(Final)	Meter Type	Remarks
	.65 l/m	→	→					
Time (hh:mm; 24-hr clock)	1355	1405	1415					
pH (Temperature Corrected? ☐)	7.64	7.65	7.65					
Temperature ☐ °C ☐ °F	23.23	23.17	23.17					
Dissolved Oxygen mg/L	0.71	0.65	0.56					
☐ SC or ☐ EC µS/cm	2.50	2.37	2.24					
Turbidity ☐ NTU	0	0	0					Sensor Malfunction
Color/Tint	Yellow	→	→					
Odor	0	→	→					

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate in gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW-20D	PO	5-18-10	1420						

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) Fred Koenigbauer Signature

Date Entered Into Database _____ By _____ Page ___ of ___

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T Other:	Facility Ashland Brunswick	Site ID MW-110
	Project No.	Date (m/d/y) 5-18-10

Site Description ☐ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe, Other:

Air Temp: 83 ☐ °C ☒ °F Weather: M. Sunny

Well Locked? ☒ yes ☐ no Damaged/Repairs Needed:

☒ TOC ☐ MP Description: Above ground

TOC/MP Stickup: 3 ☒ ft ☐ m above/below ground Well Inside Diameter (ID): ☒ 2-inch ☐ 4-inch Other:

Site Remarks (nearby wells pumping, tide, stream stage, etc.)

Water Level Data Measurement Units: ☐ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC:

☐ E-Tape, # ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)							
Depth to Water	5.86						
Tape Correction							
Water Level (WL)							
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed, P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: 35 ft ☐ Grab ☐ Bailer ☒ Pump Description: Monsoon

Casing Volume: [48.5 (TD) - 5.86 (WL)] • [2 (Well ID)]² • [.041 (Conversion Factor)] = 6.99 ☒ gal ☐ liters

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☒ Pumping Rate	.65 g/m					(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)	1115	1130	1145	1200				
pH (Temperature Corrected? ☐)	9.11	7.89	7.75	7.75				
Temperature ☐°C ☐°F	22.64	23.00	23.09	23.04				
Dissolved Oxygen mg/L	1.21	0.98	0.65	0.54				
☐ SC or ☐ EC µS/cm	2.78	2.39	2.25	2.18				
Turbidity ☐ NTU	Ø	Ø	Ø	Ø				sensor malfunc.
Color/Tint	Clear	Clear	→	→				
Odor	Ø	Ø	→	→				

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW-110	PO	5-18-10	1205						

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) Fred Koeritzbauer Signature

Date Entered Into Database _____ By _____ Page ___ of ___

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T	Facility Ashland Brunswick	Site ID MW-20I
Other:	Project No.	Date (m/d/y) 5-18-10

Site Description ☐ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 85 ☐ °C ☒ °F	Weather: M. Sunny
Well Locked? ☒ yes ☐ no	Damaged/Repairs Needed:
☒ TOC ☐ MP Description: Above ground	
TOC/MP Stickup: 3 ☒ ft ☐ m above/below ground	Well Inside Diameter (ID): ☒ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data Measurement Units: ☒ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC:

☐ E-Tape, # _____ ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)							
Depth to Water	8.20						
Tape Correction							
Water Level (WL)							
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: 30 ft ☐ Grab ☐ Bailer ☒ Pump Description: Monsoon

Casing Volume: [45 (TD) - 8.20 (WL)] • [2 (Well ID)]² • [.04 (Conversion Factor)] = 6.04 ☒ gal ☐ liters

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☒ Pumping Rate	.75 g/m				→	(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)	1305	1315	1325	1335	1340			
pH (Temperature Corrected? ☐)	8.17	8.14	8.13	8.11	8.09			
Temperature ☐ °C ☐ °F	22.88	22.89	22.89	22.88	22.90			
Dissolved Oxygen mg/L	0.89	0.78	0.76	0.60	0.57			
☐ SC or ☐ EC µS/cm	54.5	11.4	10.5	3.19	2.96			
Turbidity ☐ NTU	2.3	1.0	0.9	0	0			Sensor malfunction
Color/Tint	Yellow	→	→	→	→			
Odor	Slight	→	→	→	→			

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: 30 ft ☐ Grab ☐ Bailer ☒ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW-20I	PO	5-18-10	1340						

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) Fred Koenigbauer	Signature

Date Entered into Database _____ By _____ Page ___ of ___

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T Other:	**Facility** Ashland Brunswick	**Site ID** POC-3D
	Project No. 509848509.002	**Date** (m/d/y) 5.18.10.

Site Description ☒ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 80 ☐ °C ☒ °F	Weather: M. Sunny
Well Locked? ☒ yes ☐ no	Damaged/Repairs Needed: no
☒ TOC ☐ MP Description:	Above ground
TOC/MP Stickup: 2 ☒ ft ☐ m above/below ground	Well Inside Diameter (ID): ☒ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data Measurement Units: ☐ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC:

☐ E-Tape, # _____ ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)							
Depth to Water	7.96						
Tape Correction							
Water Level (WL)	7.96						
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: 70 ft ☐ Grab ☐ Bailer ☒ Pump Description: Monsoon

Casing Volume: [97 (TD) - 7.96 (WL)] • [2 (Well ID)]² • [.041 (Conversion Factor)] = 14.6 ☒ gal ☐ liters
Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☒ Pumping Rate	.65/m					(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)	1000	1010	1020	1030	1040		Horiba	
pH (Temperature Corrected? ☐)	7.41	7.43	7.54	7.48	7.46			
Temperature ☐°C ☐°F	24.03	23.98	23.96	23.93	23.91			
Dissolved Oxygen mg/L	1.25	0.87	0.67	0.49	0.47			
☐ SC or ☐ EC µS/cm	73.8	16.2	12.7	12.0	12.0			
Turbidity ☐ NTU	105	50.9	25.0	Ø	Ø			Sensor malfunction
Color/Tint	clear	→	→	→	→			
Odor	slight	→	→	→	→			

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: 70 ft ☐ Grab ☐ Bailer ☒ Pump Description: Monsoon

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
POC-3D	PO	5.18.10	1040						

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 6 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) Fred Koenigbauer	Signature

Date Entered Into Database _____ By _____ Page ___ of ___

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T Other: Delta	**Facility** Ashland Bronson	**Site ID** POC-15
	Project No.	**Date** (m/d/y) JB 5.19.10

Site Description ☐ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: ☐ °C ☒ °F	Weather: 81
Well Locked? ☒ yes ☐ no	Damaged/Repairs Needed:
☐ TOC ☐ MP Description:	
TOC/MP Stickup: 1 ☒ ft ☐ m above/below ground	Well Inside Diameter (ID): ☒ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data Measurement Units: ☐ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC:

☐ E-Tape, # ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)							
Depth to Water							
Tape Correction							
Water Level (WL)							
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: ☐ Grab ☐ Bailer ☒ Pump Description: Peristaltic Pump

Casing Volume: [22 (TD) - 9.73 (WL)] • [2 (Well ID)]² • [.041 (Conversion Factor)] = 2.01 ☒ gal ☐ liters

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☐ Pumping Rate						(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)								
pH (Temperature Corrected? ☐)	5.62	5.61	5.6					
Temperature ☐°C ☐°F	25.8	25.77	25.8					
Dissolved Oxygen mg/L	3.26	3.16	3.11					
☐ SC or ☐ EC µS/cm	2.69	2.69	2.72					
Turbidity ☐ NTU	555	315	7.5					
Color/Tint	Green Brown	Brownish Yellow	yellow					
~~Odor~~ ORP	-65	-77	-78					
Odor	slight	slight	slight					

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
POC-15	PO	5.19.10	930						

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) JEFF BODINUS	Signature

Date Entered Into Database _____ By _____ Page ___ of ___

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T Other: Delta	**Facility** Ashland/Brunswick	**Site ID** POC-25 (Dup.)
	Project No.	**Date** (m/d/y) 5-19-10

Site Description ☐ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: ☐ °C ☒ °F Weather: 89

Well Locked? ☑ yes ☐ no Damaged/Repairs Needed:

☐ TOC ☐ MP Description:

TOC/MP Stickup: 2 ☒ ft ☐ m above/below ground Well Inside Diameter (ID): ☑ 2-inch ☐ 4-inch Other:

Site Remarks (nearby wells pumping, tide, stream stage, etc.)

Water Level Data Measurement Units: ☐ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC:

☐ E-Tape, # ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)							
Depth to Water							
Tape Correction							
Water Level (WL)							
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: ☐ Grab ☐ Bailer ☐ Pump Description: Peristaltic Pump

Casing Volume: [25 (TD) - 12.7 (WL)] • [2 (Well ID)]² • [.04 (Conversion Factor)] = 2.02 ☐ gal ☐ liters

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☐ Pumping Rate						(Final)	Meter Type	Remarks
	2.02	4.04	6.08					
Time (hh:mm; 24-hr clock)								
pH (Temperature Corrected? ☐)	5.22	5.22	5.22					
Temperature ☐°C ☐°F	25.75	25.75	25.78					
Dissolved Oxygen mg/L	2.99	2.86	2.78					
☐ SC or ☐ EC µS/cm	2.67	2.68	2.71					
Turbidity ☐ NTU	195	75.6	5.5					
Color/Tint	yellow	Yellow	Yellow					
Odor	slight	slight	slight					

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 imperial gallon

Sample Data Sample Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
POC-25	PO	5-19-10	1240						

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) JEFF BARNES	Signature

Date Entered into Database _____ By _____

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T Other:	Facility Ashland Brunswick	Site ID POC-35
	Project No.	Date (m/d/y) 5.19.10

Site Description

☐ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: ☐ °C ☒ °F Weather: 68

Well Locked? ☒ yes ☐ no Damaged/Repairs Needed:

☐ TOC ☐ MP Description:

TOC/MP Stickup: 2 ☒ ft ☐ m above/below ground Well Inside Diameter (ID): ☒ 2-inch ☐ 4-inch Other:

Site Remarks (nearby wells pumping, tide, stream stage, etc.)

Water Level Data

Measurement Units: ☐ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC:

☐ E-Tape, # ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)							
Depth to Water							
Tape Correction							
Water Level (WL)							
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed, P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data

Purge Depth: ☐ Grab ☐ Bailer ☒ Pump Description: Peristaltic Pump

Casing Volume: [25 (TD) - 5.52 (WL)] • [2 (Well ID)]² • [.04 (Conversion Factor)] = 3.2 ☐ gal ☐ liters

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☐ Pumping Rate						(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)								
pH (Temperature Corrected? ☐)	5.31	5.28	5.28	5.26				
Temperature ☐°C ☐°F	22.27	22.12	22.10	22.14				
Dissolved Oxygen mg/L	4.22	4.20	4.20	4.08				
☐ SC or ☐ EC µS/cm	2.22	2.25	2.23	2.27				
Turbidity ☐ NTU	141	98	13.4	9.5				
Color/Tint	light Grn	light Grn	colorless	colorless				
Odor	—	—	—	—				
ORP	-100	-103	-105	-108				

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data

Sample Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
POC-35	PO	5.19.10	1100	JB					

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) JEFF BODINE	Signature

Date Entered into Database _____ By _____ Page ___ of ___

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T Other:	Facility Ashland Brunswick	Site ID MW-10D
	Project No.	Date (m/d/y) 5-19-10

Site Description ☐ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 90 ☐ °C ☒ °F	Weather: M. Sunny
Well Locked? ☒ yes ☐ no	Damaged/Repairs Needed:
☒ TOC ☐ MP Description:	Above ground
TOC/MP Stickup: 3 ☒ ft ☐ m above/below ground	Well Inside Diameter (ID): ☒ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data Measurement Units: ☒ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC:

☐ E-Tape, # _____ ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)							
Depth to Water	7.22						
Tape Correction							
Water Level (WL)							
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Slickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: ☐ Grab ☐ Bailer ☒ Pump Description: Monsoon

Casing Volume: [95.4 (TD) - 7.22 (WL)] • [2 (Well ID)]² • [.041 (Conversion Factor)] = _____ ☒ gal ☐ liters

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in Inches

Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☒ Pumping Rate	.75 lpm	→	→	→		(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)	1000	1010	1020	1030				
pH (Temperature Corrected? ☐)	7.41	7.42	7.43	7.41				
Temperature ☐ °C ☐ °F	23.96	23.97	23.95	23.90				
Dissolved Oxygen mg/L	2.88	2.83	2.70	2.62				
☐ SC or ☐ EC µS/cm	17.6	17.6	17.6	17.4				
Turbidity ☐ NTU	120	119	117	128				
Color/Tint	Yellow/brown	→	→	→				
Odor	Heavy	→	→	→				
ORP	-95	-95	-95	-94				

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 imperial gallon

Sample Data Sample Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW-10D	PO	5-19-10	1036						

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; DI, Duplicate Sample; SI, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) Fred Koenigbauer	Signature

Date Entered into Database _____ By _____

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T Other:	Facility Ashland Brunswick	Site ID MW-90
	Project No.	Date (m/d/y) 5.19.10

Site Description ☐ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 77 ☐ °C ☒ °F	Weather: M. Sunny
Well Locked? ☒ yes ☐ no	Damaged/Repairs Needed:
☒ TOC ☐ MP Description:	Above ground
TOC/MP Stickup: 3 ☒ ft ☐ m above/below ground	Well Inside Diameter (ID): ☒ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data Measurement Units: ☒ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC:

☐ E-Tape, # ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)							
Depth to Water	5.88						
Tape Correction							
Water Level (WL)							
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. Measure water level from north side of casing. Measure static or pre-purging water level twice, record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: ☐ Grab ☐ Bailer ☒ Pump Description: Mersees

Casing Volume: [93.2 (TD) - 5.88 (WL)] • [2 (Well ID)]² • [.041 (Conversion Factor)] = 12.7 ☒ gal ☐ liters

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in Inches

Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☒ Pumping Rate	.75gl/m					(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)	900	910	920	930				
pH (Temperature Corrected? ☐)	7.96	8.00	7.99	7.99				
Temperature ☐ °C ☐ °F	24.12	24.11	24.09	23.96				
Dissolved Oxygen mg/L	0.96	0.92	0.87	0.84				
☐ SC or ☐ EC µS/cm	5.44	3.92	3.84	2.95				
Turbidity ☐ NTU	105.0	0	0	0				Sensor Malfunction
Color/Tint	Yellow/green	→	→	→				
Odor	Slight	→	→	→				

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 imperial gallon

Sample Data Sample Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW-90	PO	5.19.10	935						

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 8). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) Fred Weinbauer	Signature

Date Entered into Database _____ By _____ Page ___ of ___

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T Other:	Facility Ashland Brunswick	Site ID POC-20
	Project No.	Date (m/d/y) 5.19.10

Site Description ☐ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 85 ☐ °C ☒ °F	Weather: M. Sunny
Well Locked? ☒ yes ☐ no	Damaged/Repairs Needed:
☒ TOC ☐ MP Description:	Above Ground
TOC/MP Stickup: 3 ☒ ft ☐ m above/below ground	Well Inside Diameter (ID): 2 ☐ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data Measurement Units: ☐ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC:

☐ E-Tape, # _____ ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)							
Depth to Water	14.92						
Tape Correction							
Water Level (WL)							
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Casing Volume: [107 (TD) - 14.92 (WL)] • [2 (Well ID)]² • [.041 (Conversion Factor)] = 15.1 ☒ gal ☐ liters

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☒ Pumping Rate	.70 gpm	→	→	→		(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)	1200	1220	1230	1240				
pH (Temperature Corrected? ☐)	8.20	8.20	8.19	8.19				
Temperature ☐°C ☐°F	27.04	26.94	26.91	26.73				
Dissolved Oxygen mg/L	0.67	0.60	0.59	0.48				
☐ SC or ☐ EC µS/cm	12.9	12.8	12.8	12.6				
Turbidity ☐ NTU	7.0	0	0	0				Sensor malfunction
Color/Tint	Yellow	→	→	→				
Odor	Slight	→	→	→				

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
POC-20	PO	5-19-10	1245						

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) Fred Koenigbauer	Signature

Date Entered Into Database _____ By _____ Page ___ of ___

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☒ Facility Personnel ☐ ES&T Other: ES - Derek R	**Facility** Ashland Brunswick	**Site ID** MW-15
	Project No. 109849509	**Date** (m/d/y) 6/3/10

Site Description ☐ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 84 ☐ °C ☒ °F	Weather: Sunny
Well Locked? ☒ yes ☐ no	Damaged/Repairs Needed: None
☐ TOC ☐ MP Description:	
TOC/MP Stickup: 3 ☐ ft ☐ m above/below ground	Well Inside Diameter (ID): ☒ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	Production well Near Sky

Water Level Data Measurement Units: ☒ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC: 10.49

☐ E-Taps, # ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)	0800						
Depth to Water	5.81	✓	8.17	8.47	8.53	✓	
Tape Correction	✓	✓	✓	✓	✓		
Water Level (WL)	5.81	✓	8.17	8.47	8.53		
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: ☐ Grab ☐ Bailer ☒ Pump Description: peristaltic

Casing Volume: [(TD) − 5.81 (WL)]• [2 (well ID)]²•[0.040 (Conversion Factor)] = 0.8 ☐ gal ☐ liters

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☒ Cum. Vol. Purged ☐ Pumping Rate	0	0.8	1.6	2.4	3.2	(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)	0800	0805	0810	0815	0820		Horiba	
pH (Temperature Corrected? ☐)	6.97	6.96	6.94	6.97	6.95		W-22	
Temperature ☐°C ☐°F	22.22	22.20	22.23	22.32	22.28			
Dissolved Oxygen mg/L	0.47	0.41	0.36	0.34	0.30			
☐ SC or ☐ EC µS/cm	0.212	0.460	0.498	0.512	0.533			
Turbidity ☒ NTU	59.6	18.5	20.0	12.7	10.4			
Color/Tint	cloudy	cloudy	cloudy	clear	clear			
Odor	✓	✓	✓					
ORP	-72	-73	-76	-80	-83			

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: ☐ Grab ☐ Bailer ☒ Pump Description: peristaltic

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW-15 (VOCs)	PO	6/3/10	0820	5	✓	✓	✓	✓	✓

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) Derek Rathut	Signature

Date Entered Into Database _____ By _____ Page ___ of ___

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T Other: Delta	Facility Ashland Brunswick	Site ID MW ID
	Project No.	Date (m/d/y) 6/3/10

Site Description ☒ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 80 ☐ °C ☒ °F	Weather: Sunny
Well Locked? ☒ yes ☐ no	Damaged/Repairs Needed: No
☒ TOC ☐ MP Description:	
TOC/MP Stickup: 3 ☒ ft ☐ m above/below ground	Well Inside Diameter (ID): ☐ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data Measurement Units: ☒ ft ☐ m Well or Borehole Total Depth (TD) from MP or (TOC) 30.21

☐ E-Tape, # ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)							
Depth to Water	5.90			@ 6.19			
Tape Correction							
Water Level (WL)							
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: ☐ Grab ☐ Bailer ☒ Pump Description: SS Mega Monsoon

Casing Volume: [_____(TD) - _____(WL)] • [_____(Well ID)]^2 • [_____(Conversion Factor)] = _____ ☐ gal ☐ liters
Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☐ Pumping Rate	700	700	700 mL/m		(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)	0815	820	825			Horiba	
pH (Temperature Corrected? ☐)	6.08	6.08	6.08			U-22	
Temperature ☐°C ☐°F	23.05	23.02	23.00				
Dissolved Oxygen mg/L	2.0	1.99	1.99				
☒ SC or ☐ EC µS/cm	2.8	2.8	2.8				
Turbidity ☐ NTU	43.0	44.0	45.0				
Color/Tint							
~~Odor~~ ORP	-5.9	-8.0	-5.3				

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: ☐ Grab ☐ Bailer ☒ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW ID	PO	6/3/10							

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; DI#, Duplicate Sample; SI#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 6 characters) is name of laboratory that will analyze the sample. Case ID (up to 6 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print)	Signature

Date Entered into Database _____ By _____ Page ___ of ___

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☒ Facility Personnel ☐ ES&T Other: FS - Derek R	**Facility** Ashland Brunswick	**Site ID** MW-25
	Project No. 5098495.09	**Date** (m/d/y) 6/3/10

Site Description ☑ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 90 ☐ °C ☒ °F	Weather: Sunny
Well Locked? ☒ yes ☐ no	Damaged/Repairs Needed: none
☐ TOC ☐ MP Description: —	
TOC/MP Stickup: 3 ☐ ft ☐ m above/below ground	Well Inside Diameter (ID): ☑ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data Measurement Units: ☑ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC: 10.79

☐ E-Tape, # _____ ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)							
Depth to Water	5.48		7.04	7.11	7.37		
Tape Correction	/		/	/	/		
Water Level (WL)	5.48		7.04	7.11	7.37		
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: ☐ Grab ☐ Bailer ☑ Pump Description: Peristaltic

Casing Volume: [10.79 (TD) - 5.48 (WL)] • [2 (Well ID)]² • [0.0816 (Conversion Factor)] = 0.9 ☑ gal ☐ liters

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☑ Cum. Vol. Purged ☐ Pumping Rate		0.9	1.8	2.7	3.6	(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)	0725	0730	735	0740	0745		Horiba U-22	
pH (Temperature Corrected? ☐)	7.22	7.19	7.15	7.14	7.10			
Temperature ☐°C ☐°F	23.47	23.26	23.19	23.26	7			
Dissolved Oxygen mg/L	0.57	0.66	0.61	0.62	0.58			
☐ SC or ☐ EC µS/cm	0.319	0.422	0.587	0.593	0.599			
Turbidity ☐ NTU	4.5	2.7	3.3	1.3	0.7			
Color/Tint	clear	clear	clear	clear	clear			
Odor								
ORP	-91	-101	-100	-94	-98			

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: ☐ Grab ☐ Bailer ☑ Pump Description: Peristaltic

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW-25 (VOCs)	PO	6/3/10	0745	3	/	/	/	/	/

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 6 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) Derek Rothe Signature

Date Entered into Database _____ By _____ Page ___ of ___

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T Other: Delta	**Facility** Ashland Brunswick **Site ID** MW2D
	Project No. 109849509 **Date** (m/d/y) 6/3/10

Site Description ☐ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 80 ☐ °C ☒ °F	Weather: Sunny
Well Locked? ☒ yes ☐ no	Damaged/Repairs Needed: No
☒ TOC ☐ MP Description:	
TOC/MP Stickup: 3 ☒ ft ☐ m above/below ground	Well Inside Diameter (ID): ☐ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data Measurement Units: ☒ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC: 34.5

☒ E-Taps, # ____ ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)							
Depth to Water	5.55						
Tape Correction							
Water Level (WL)							
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: ☐ Grab ☐ Bailer ☒ Pump Description: SS Mega Monsoon

Casing Volume: [_____(TD) - _____(WL)] • [_____(Well ID)]^2 • [_____(Conversion Factor)] = _____ ☐ gal ☐ liters
Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☐ Pumping Rate	600mL/min					(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)	730	735	740	745			Horiba U-22	
pH (Temperature Corrected? ☐)	6.0	6.0	6.0	6.0				
Temperature ☐°C ☐°F	24.4	23.17	23.22	23.20				
Dissolved Oxygen mg/L	2.07	2.08	2.11	2.04				
☒ SC or ☐ EC µS/cm	3.0	3.1	3.2	3.0				
Turbidity ☐ NTU	82.1	80.1	78.2	74.6				
Color/Tint								
~~Odor~~ ORP	-56	-52	-50	-51				

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW2D	PO	6/3/10	750	3					VOC's

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; DS, Duplicate Sample; SN, Split Sample (sent to second lab); BFN, Field Blank; BRN, Equipment Rinsate; BTN, Trip Blank; SFN, Field Spike (N = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print)	Signature

Date Entered Into Database _____ By _____ Page ___ of ___

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T	**Facility** Ashland-Bernside	**Site ID** MW-4
Other: ES - Derek Rothaupt	**Project No.** 70984-8529	**Date** (m/d/y) 6/4/10

Site Description ☑ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 92 ☐ °C ☑ °F	Weather: Sunny
Well Locked? ☑ yes ☐ no	Damaged/Repairs Needed: None
☐ TOC ☐ MP Description:	
TOC/MP Stickup: 3 ☑ ft ☐ m above/below ground	Well Inside Diameter (ID): ☑ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.) —	

Water Level Data Measurement Units: ☑ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC: 22.59

☐ E-Tape, # ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)	1505						
Depth to Water	6.08		7.04	7.11	7.19		
Tape Correction	/		/	/	/		
Water Level (WL)	6.08		7.04	7.11	7.19		
Product Thickness	/		/	/	/		
Product Recovery ☐ gallons ☐ liters	/		/	/	/		

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: ☐ Grab ☐ Bailer ☑ Pump Description: Peristaltic

Casing Volume: [22.59 (TD) - 6.08 (WL)] • [2 (Well ID)]² • [0.0408 (Conversion Factor)] = 2.7 ☐ gal ☐ liters — Well Goes Dry While Purging ☐

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

☑ Cum. Vol. Purged ☐ Pumping Rate						(Final)	Meter Type	Remarks
	0	2.7	5.4	8.1				
Time (hh:mm; 24-hr clock)							Horiba U-22	
pH (Temperature Corrected? ☐)	7.40	7.42	7.46	7.55				
Temperature ☐°C ☐°F	22.52	22.46	22.42	22.40				
Dissolved Oxygen mg/L	3.53	1.17	0.80	0.58				
☐ SC or ☑ EC mS/cm	10.4	8.29	7.79	7.63				
Turbidity ☑ NTU	61.3	43.2	21.8	17.9				
Color/Tint	/	/	/	/				
Odor	clear	clear	clear	clear				
ORP	-143	-149	-156	-158				

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: ☐ Grab ☐ Bailer ☑ Pump Description: Peristaltic

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW-4	PO	6/4/10	1540	3	/	/	/	/	/

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) Derek Rothaupt	Signature

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T	Facility Ashland - Brunswick	Site ID MW-53
Other: FS - Derek Rothaupt	Project No. 50984-850-9	Date (m/d/y) 6/1/10

Site Description ☐ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 91 ☐ °C ☑ °F	Weather: Sunny
Well Locked? ☑ yes ☐ no	Damaged/Repairs Needed: None
☐ TOC ☐ MP Description:	
TOC/MP Stickup: 3 ☑ ft ☐ m above/below ground	Well Inside Diameter (ID): ☑ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.) —	

Water Level Data Measurement Units: ☑ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC: 22.42

☐ E-Tape, # ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)	1420		1430	1440			
Depth to Water	6.57		8.76	9.02			
Tape Correction	—		—	—			
Water Level (WL)	6.57		8.76	9.02			
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: ☐ Grab ☐ Bailer ☑ Pump Description: Peristaltic

Casing Volume: [22.42 (TD) − 6.57 (WL)] • [2 (Well ID)]² • [____ (Conversion Factor)] = 2.5 ☐ gal ☐ liters

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☐ Pumping Rate	0	2.6	5.2	7.8		(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)							Horiba	
pH (Temperature Corrected? ☐)	8.22	8.08	8.10	8.12				
Temperature ☐ °C ☐ °F	22.74	22.50	22.52	22.54				
Dissolved Oxygen mg/L	2.74	0.27	0.15	0.14				
☐ SC or ☑ EC µS/cm	12.0	11.9	10.87	10.83				
Turbidity ☐ NTU	81.5	36.8	26.8	24.5				
Color/Tint	clear	clear	clear	clear				
Odor	—	—	—	—				
ORP	-165	-167	-173	-173				

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW-5	PO	6/1/10	1455	3					VOCs

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) Derek Rothaupt	Signature

Date Entered into Database _____ By _____ Page ___ of ___

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T Other: Delta	Facility	Site ID MW5I
	Project No.	Date (m/d/y) 6/1/10

Site Description ☐ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 88 ☐ °C ☒ °F	Weather: Sunny
Well Locked? ☒ yes ☐ no	Damaged/Repairs Needed: No
☒ TOC ☐ MP Description:	
TOC/MP Stickup: ☒ ft ☐ m above/below ground ~3	Well Inside Diameter (ID): ☒ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data Measurement Units: ☒ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC: 31.6

☐ E-Tape, # _____ ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)	1430		1440	1450			
Depth to Water	6.11	6.16	6.11	7.89	7.03		
Tape Correction							
Water Level (WL)	6.11						
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: ☐ Grab ☐ Bailer ☒ Pump Description:

Casing Volume: [31.6 (TD) - 6.11 (WL)] • [____ (Well ID)]^2 • [____ (Conversion Factor)] = _____ ☐ gal ☐ liters

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☒ Cum. Vol. Purged ☒ Pumping Rate	~~1st~~	500ml	L/min →			(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)	1440	1445	1450	1455			Horiba	
pH (Temperature Corrected? ☐)	6.41	6.83	6.90	6.89			U-22	
Temperature ☐°C ☐°F	27.19	24.81	24.80	24.63				
Dissolved Oxygen mg/L	3.79	4.01	3.78	4.01				
☒ SC or ☐ EC µS/cm	2.09	2.10	2.05	2.03				
Turbidity ☒ NTU	109	90	21.4	22.6				
Color/Tint								
~~Odor~~ ORP	~~Time~~	-121	-121	+129				

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW-5I VOC's	P0	6/1/10	1500	3	—				
MW-5I Total 8 tech toxaphene		6/1/10	~~1500~~ 1500	2	—				

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: P0, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) Ryan McLain	Signature

Date Entered into Database _____ By _____ Page ___ of ___

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T	Facility Ashland - Brunswick	Site ID MW-6
Other: ES - Derek Rothert	Project No. 70984-850-9	Date (m/d/y) 6/2/10

Site Description ☑ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 80 ☐ °C ☑ °F	Weather: Sunny
Well Locked? ☑ yes ☐ no	Damaged/Repairs Needed: none
☐ TOC ☐ MP Description:	
TOC/MP Stickup: 3 ☑ ft ☐ m above/below ground	Well Inside Diameter (ID): ☑ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data Measurement Units: ☑ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC: 22.57

☐ E-Tape, # _____ ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)	0750		0800	0810	0820		
Depth to Water	6.12		7.17	7.20	7.28		
Tape Correction	✓		✓	✓	✓		
Water Level (WL)	6.12		7.17	7.20	7.28		
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: ☐ Grab ☐ Bailer ☑ Pump Description: Peristaltic

Casing Volume: [22.57 (TD) - _____ (WL)] • [2 (Well ID)]² • [0.0408 (Conversion Factor)] = 2.6 ☑ gal ☐ liters

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☑ Cum. Vol. Purged ☐ Pumping Rate						(Final)	Meter Type	Remarks
	0	2.6	5.2	7.9				
Time (hh:mm; 24-hr clock)	0750	0800	0810	0820			Horiba	
pH (Temperature Corrected? ☐)	8.01		7.85				U22	
Temperature ☐°C ☐°F	22.93	22.74	22.99	22.93				
Dissolved Oxygen mg/L	0.89	0.87	0.94	0.90				
☐ SC or ☑ EC mS/cm	0.418	0.729	0.684	0.692				
Turbidity ☑ NTU	10.9	15.4	13.7	12.1				
Color/Tint	Cloudy	Cloudy	Cloudy	Cloudy				
Odor								
ORP	-116	-136	-146					

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: ☐ Grab ☐ Bailer ☑ Pump Description: peristaltic

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW-6	PO	6/2/10	0820	3	✓				

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) Derek Rothert	Signature

Date Entered into Database _____ By _____

DELTA CONSULTANTS **GROUNDWATER SAMPLING RECORD**

Sampled By ☐ Facility Personnel ☐ ES&T Other: ES-Derek Rothayt	**Facility** Ashland + Brownsville	**Site ID** MW-7
	Project No. 50984-880-9	**Date (m/d/y)** 6/1/10

Site Description ☑ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 85 ☐ °C ☑ °F Weather: Sunny

Well Locked? ☑ yes ☐ no Damaged/Repairs Needed: None

☐ TOC ☐ MP Description:

TOC/MP Stickup: 3 ☑ ft ☐ m above/below ground Well Inside Diameter (ID): ☑ 2-inch ☐ 4-inch Other:

Site Remarks (nearby wells pumping, tide, stream stage, etc.)

Water Level Data Measurement Units: ☑ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC: 22.57

☐ E-Tape, # ___ ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)	1305						
Depth to Water	5.45	—	5.71	5.74	5.77		
Tape Correction		—	—	—			
Water Level (WL)	5.45	—	5.71	5.74	5.77		
Product Thickness	—	—	—	—			
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: ☐ Grab ☐ Bailer ☑ Pump Description: Peristaltic

Casing Volume: [22.57 (TD) - 5.45 (WL)] • [2 (Well ID)]^2 • [0.0408 (Conversion Factor)] = 2.8 ☑ gal ☐ liters — Well Goes Dry While Purging ☐

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

☑ Cum. Vol. Purged ☐ Pumping Rate	0	2.8	5.6	8.4	11.2	(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)							Horiba	
pH (Temperature Corrected? ☐)	8.20	7.92	7.90	7.88	7.83			
Temperature ☐°C ☐°F	22.78	22.80	22.79	22.77	22.78			
Dissolved Oxygen mg/L	3.88	0.65	0.61	0.56	0.54			
☐ SC or ☑ EC mS/cm	8.83	7.99	7.96	7.94	7.99			
Turbidity ☑ NTU	54.3	37.2	33.8	29.2	23.4			
Color/Tint	Clear	Clear	Clear	Clear				
Odor TDS	4	1.1	1.3	0.99				
ORP	-165	-167	-164	-165	-164			

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: ☐ Grab ☐ Bailer ☑ Pump Description: Peristaltic

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW-7	P0	6/1/10	1345	3	—	—	—	—	—

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: P0, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) Derek Rothayt	Signature [signature]

users/forms/SampLog.doc/5/8/02 Date Entered into Database ______ By ______ Page ___ of ___

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T	**Facility** Ashland - Brunswick	**Site ID** MW-8
Other: ES - Derek Rothrock	**Project No.** 50984-8502	**Date** (m/d/y) 6/2/10

Site Description ☑ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 78 ☐ °C ☑ °F	Weather: Sunny
Well Locked? ☑ yes ☐ no	Damaged/Repairs Needed: None
☑ TOC ☐ MP Description:	
TOC/MP Stickup: 3 ☑ ft ☐ m above/below ground	Well Inside Diameter (ID): ☑ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data Measurement Units: ☑ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC: 22.39

☐ E-Tape, # ____ ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)	0715						
Depth to Water	6.91		7.38	7.69	7.74		
Tape Correction							
Water Level (WL)	6.91		7.38	7.69	7.74		
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: ☐ Grab ☐ Bailer ☑ Pump Description: peristaltic

Casing Volume: [22.39 (TD) - 6.91 (WL)] • [2 (Well ID)]² • [0.0408 (Conversion Factor)] = 2.5 ☐ gal ☐ liters

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☑ Cum. Vol. Purged ☐ Pumping Rate					(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)	0715	720	725	740		Horiba U-22	
pH (Temperature Corrected? ☐)	7.24	7.27	7.39	7.36			
Temperature ☐°C ☐°F	23.39	23.32	22.58	22.60			
Dissolved Oxygen mg/L	1.28	1.22	0.80	0.77			
☐ SC or ☑ EC µS/cm	0.694	0.839	1.04	0.999			
Turbidity ☐ NTU	3.8	4.9	0.8	0.6			
Color/Tint							
Odor							
ORP	-110	-112	-118	-120			

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: ☐ Grab ☑ Bailer ☑ Pump Description: Peristaltic

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW-8	PO	6/2/10	0740	3					

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) Derek Rothrock	Signature

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T	Facility Ashland - Brunswick	Site ID MW-13
Other: ES - Derek Rothwell	Project No. B0098-850-9	Date (m/d/y) 6/2/10

Site Description ☑ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 82 ☐ °C ☑ °F	Weather: Sunny
Well Locked? ☑ yes ☐ no	Damaged/Repairs Needed: None
☐ TOC ☐ MP Description:	
TOC/MP Stickup: 3 ☑ ft ☐ m above/below ground	Well Inside Diameter (ID): ☑ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data Measurement Units: ☑ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC: 127.10

☐ E-Tape, # ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)	1255		1300	1310	1320		
Depth to Water	8.67		8.99	9.09	9.13		
Tape Correction							
Water Level (WL)			8.99	9.09	9.13		
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: ☐ Grab ☐ Bailer ☑ Pump Description: SS Mega Monsoon

Casing Volume: [_____(TD) - _____(WL)] * [_____(Well ID)]^2 * [_____(Conversion Factor)] = _____ ☐ gal ☐ liters
Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☑ Pumping Rate	1300	1305	1310	1315	1320	(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)	500 mL/m	750 mL/m			→		Horiba U-22	
pH (Temperature Corrected? ☐)	7.79	7.92	7.89	7.86	7.87			
Temperature ☑ °C ☐ °F	23.93	23.56	23.38	23.34	23.27			
Dissolved Oxygen mg/L	2.83	0.31	0.21	0.19	0.20			
☐ SC or ☑ EC mS/cm	3.29	2.16	2.10	2.13	2.09			
Turbidity ☐ NTU	728	307	20.7	6.9	5.7			
Color/Tint	Cloudy	Cloudy	Cloudy	clear	clear			
Odor								
ORP	-133	-140	-140	-140	-139			

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: ☐ Grab ☐ Bailer ☑ Pump Description: SS Monsoon

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW-13	PO	6/2/10	1320	3	✓	✓	✓	✓	✓

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print)	Signature

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T Other: ES - Derek R	Facility Ashland - Broadway	Site ID MW-145
	Project No. 509284-850-9	Date (m/d/y) 6/3/10

Site Description ☐ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 82 ☐ °C ☑ °F	Weather: Sunny
Well Locked? ☑ yes ☐ no	Damaged/Repairs Needed:
☐ TOC ☐ MP Description:	
TOC/MP Stickup: 2.66 ft ☐ m above/below ground	Well Inside Diameter (ID): ☑ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data Measurement Units: ☑ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC: 15.08

☐ E-Tape, # _____ ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)	1045						
Depth to Water	3.36		4.83	4.97	4.99		
Tape Correction	✓		✓	✓	✓		
Water Level (WL)	3.36		4.83	4.97	4.99		
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: ☐ Grab ☐ Bailer ☑ Pump Description: peristaltic

Casing Volume: [15.08 (TD) - 3.36 (WL)] • [____ (Well ID)]² • [____ (Conversion Factor)] = 2.0 ☑ gal ☐ liters — Well Goes Dry While Purging ☐

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

☑ Cum. Vol. Purged ☐ Pumping Rate						(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)	1045	1050	1055	1100				
pH (Temperature Corrected? ☐)	7.37	7.36	7.36	7.35				
Temperature ☐°C ☐°F	23.17	23.20	23.19	23.17				
Dissolved Oxygen mg/L	2.49	2.26	2.18	2.06				
☐ SC or ☐ EC µS/cm	0.770	0.784	0.786	0.794				
Turbidity ☐ NTU	47.3	54.8	46.2	44.1				
Color/Tint	clear	clear	clear	clear				
Odor	✓	✓	✓	✓				
ORP	-148	-149	-149	-150				

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: ☐ Grab ☐ Bailer ☑ Pump Description: peristaltic

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW-145 VOCs	P0	6/3/10	1100	3	✓	✓			

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: P0, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) Derek Rothert	Signature

Date Entered into Database _____ By _____ Page ___ of ___

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T	Facility Ashland – Bronquist	Site ID MW-14D
Other: ES Derek Rothrock	Project No. 509,84-350-9	Date (m/d/y) 6/3/10

Site Description ☑ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 85 ☐ °C ☑ °F	Weather: Sunny
Well Locked? ☑ yes ☐ no	Damaged/Repairs Needed: none
☐ TOC ☐ MP Description:	
TOC/MP Stickup: ☐ ft ☐ m above/below ground	Well Inside Diameter (ID): ☐ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data Measurement Units: ☐ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC: 90.26

☐ E-Tape, # ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)	1125		1125	1140	1150		
Depth to Water	3.96		4.06	4.07	4.06		
Tape Correction							
Water Level (WL)	3.96		4.06	4.07	4.06		
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: — ☐ Grab ☐ Bailer ☑ Pump Description: SS Mega Monsoon

Casing Volume: [____(TD) - ____(WL)]•[____(Well ID)]^2•[____(Conversion Factor)] = ____ ☐ gal ☐ liters
Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☑ Pumping Rate	1125	1130	1135	1140	1145	1150 (Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)	750 mL/m						Horiba U-22	
pH (Temperature Corrected? ☐)	9.57	9.92	9.91	9.94	9.97	9.95		
Temperature ☐°C ☐°F	24.83	25.13	25.10	25.13	25.14	25.12		
Dissolved Oxygen mg/L	1.87	1.09	1.06	1.00	0.99	0.96		
☐ SC or ☐ EC µS/cm	1.42	1.43	1.43	1.42	1.43	1.43		
Turbidity ☐ NTU	7.8	12.4	14.1	10.8	12.1	11.7		
Color/Tint	clear	clear	clear	clear	clear	clear		
Odor								
ORP	~~-278~~	-250	-251	-254	-253	-252		

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: ☐ Grab ☐ Bailer ☑ Pump Description: SS Mega Monsoon

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW-14D	PO	6/3/10	1150	3					

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) Derek Rothrock	Signature

Date Entered into Database _____ By _____

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☒ Facility Personnel ☐ ES&T Other: ES - Rothauf	**Facility** Ashland Brunswick	**Site ID** MW-15S
	Project No. 5098495.09	**Date (m/d/y)** 6/23/10

Site Description
☐ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 84 ☐ °C ☒ °F	Weather: Sunny
Well Locked? ☒ yes ☐ no	Damaged/Repairs Needed: none
☐ TOC ☐ MP Description:	
TOC/MP Stickup: 3 ☐ ft ☐ m above/below ground	Well Inside Diameter (ID): ☐ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data
Measurement Units: ☐ ft ☐ m — Well or Borehole Total Depth (TD) from MP or TOC: 12.06

☐ E-Tape, # ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)	1700		1702	1710	1720		
Depth to Water	6.54		6.94	7.03	7.08		
Tape Correction							
Water Level (WL)	6.54		6.94	7.03	7.08		
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data
Purge Depth: — ☐ Grab ☐ Bailer ☒ Pump Description: peristaltic

Casing Volume: [____(TD) - 6.54(WL)]•[2(Well ID)]²•[____(Conversion Factor)] = 0.9 ☐ gal ☐ liters

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☐ Pumping Rate						(Final)	Meter Type	Remarks
	0	0.9	1.8	3.7	4.6			
Time (hh:mm; 24-hr clock)	1700	1705	1710	1715	1720			
pH (Temperature Corrected? ☐)	~~7.54~~	7.54	7.52	7.51	7.50		Horiba U-22	
Temperature ☐°C ☐°F	26.10	25.33	24.61	24.56	24.32			
Dissolved Oxygen mg/L	2.00	1.37	1.43	1.62	1.60			
☐ SC or ☐ EC µS/cm	0.237	0.198	0.662	0.541	0.429			
Turbidity ☐ NTU	108	71.7	62.2	59.6	57.7			
Color/Tint	Cloudy	Cloudy	Yellow Cloudy	—	—			
Odor								
ORP		-106						

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data
Sample Depth: ☐ Grab ☐ Bailer ☒ Pump Description: peristaltic

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW-15	PO	6/23/10	1720	3					

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; Df, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print)	Signature

Date Entered Into Database _____ By _____

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T Other: Delta	Facility Ashland Brunswick	Site ID MW15D
	Project No.	Date (m/d/y) 6/9/10

Site Description ☒ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 90 ☐ °C ☒ °F	Weather: Sunny
Well Locked? ☒ yes ☐ no	Damaged/Repairs Needed: N/A
☒ TOC ☐ MP Description:	
TOC/MP Stickup: 3 ☒ ft ☐ m above/below ground	Well Inside Diameter (ID): ☒ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data Measurement Units: ☒ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC:

☐ E-Tape, # _____ ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)							
Depth to Water	6.42			6.80			
Tape Correction							
Water Level (WL)							
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Casing Volume: [_____(TD) - _____(WL)] • [_____(Well ID)]^2 • [_____(Conversion Factor)] = _____ ☐ gal ☐ liters
Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☐ Pumping Rate	500 mL/min →				(Final)	Meter Type	Remark
Time (hh:mm; 24-hr clock)	1300	1305	1310			Horiba	
pH (Temperature Corrected? ☐)	5.78	5.77	5.76			U-22	
Temperature ☐°C ☐°F	24.06	24.06	24.10				
Dissolved Oxygen mg/L	5.11	5.11	5.11				
☐ SC or ☐ EC µS/cm	9.0	9.0	9.0				
Turbidity ☐ NTU	120	116	105				
Color/Tint							
Odor ~~ORP~~	-156						

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW15D	P0	6/9/10	1400						VOC

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: P0, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print)	Signature

Date Entered into Database _____ By _____ Page ___ of ___

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☒ Facility Personnel ☐ ES&T Other: Delta Consultants	**Facility** Ashland Brunswick	**Site ID** MW-16S
	Project No. 5098495509	**Date** (m/d/y) 5/27/10

Site Description

☒ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 72 ☐ °C ☒ °F	Weather: Sunny
Well Locked? ☒ yes ☐ no	Damaged/Repairs Needed: NA
☒ TOC ☐ MP Description:	
TOC/MP Stickup: 3 ☒ ft ☐ m above/below ground	Well Inside Diameter (ID): ☒ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data

Measurement Units: ☒ ft ☐ m — Well or Borehole Total Depth (TD) from MP or TOC: 12.00

☐ E-Tape, # ____ ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)	1025	1025	1030	1040	1050	1600	
Depth to Water	7.92	7.92	8.01	8.14	8.22	8.10	
Tape Correction	N/A						
Water Level (WL)	4.92	4.92	5.01	5.14	5.22	5.10	
Product Thickness	NA					→	
Product Recovery ☐ gallons ☐ liters	NA					→	

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data

Purge Depth: ☒ Grab ☐ Bailer ☐ Pump Description: Peristaltic

Casing Volume: [12.00 (TD) - 7.92 (WL)] • [2 (Well ID)]² • [.0408 (Conversion Factor)] = 0.666 ☒ gal ☐ liters

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☒ Cum. Vol. Purged ☐ Pumping Rate	0	1.25	2.50	3.75	5	(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)	1030	1035	1040	1045	1050			
pH (Temperature Corrected? ☐)	6.00	5.83	5.75	5.68	5.65			
Temperature ☒ °C ☐ °F	21.57	21.72	21.58	21.54	21.61			
Dissolved Oxygen mg/L	4.02	3.18	2.75	2.70	2.68			
☒ SC or ☐ EC µS/cm	0.194	0.143	0.153	0.129	0.127			
Turbidity ☒ NTU	9.6	10.3	9.9	9.9	9.7			
Color/Tint	Clear	→	→	→	→			
Odor	None	→	→	→	→			
ORP	-125	-115	-108	-101	-99			

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data

Sample Depth: 10.0 ☒ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW-16S	PO	5/27/10	1055	3					

Sample ID may be up to 16 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; DI, Duplicate Sample; SI, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 6 characters) is name of laboratory that will analyze the sample. Case ID (up to 8 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) Bojan Thomas	Signature

Date Entered Into Database ____ By ____ Page ____ of ____

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T	Facility Ashland - Brunswick	Site ID MW-16D
Other: Delta Consultants	Project No. J0984.850.9	Date (m/d/y) 5/27/10

Site Description ☑ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 85 ☐ °C ☑ °F	Weather: P.C.
Well Locked? ☑ yes ☐ no	Damaged/Repairs Needed: N/A
☑ TOC ☐ MP Description:	
TOC/MP Stickup: 3 ☑ ft ☐ m (above/below ground)	Well Inside Diameter (ID): ☑ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data Measurement Units: ☑ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC:

☐ E-Tape, # _____ ☑ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)	1025	1025	1030	1045	1055	1100	
Depth to Water	6.07	6.07	6.05	5.92	5.90	5.91	
Tape Correction	N/A					→	
Water Level (WL)	9.07	9.07	9.05	8.92	8.90	8.91	
Product Thickness	N/A					→	
Product Recovery ☐ gallons ☐ liters	N/A					→	

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: 84.00 ☑ Grab ☐ Bailer ☐ Pump Description: Monsoon w/Regulator

Casing Volume: [91.22 (TD) - 9.07 (WL)] • [2 (Well ID)]^2 • [.0408 (Conversion Factor)] = 12.75 ☑ gal ☐ liters — Well Goes Dry While Purging ☐

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

☑ Cum. Vol. Purged ☐ Pumping Rate						(Final)	Meter Type	Remarks
	0	.50	1.25	2.25	3.25	4.25		
Time (hh:mm; 24-hr clock)	1030	1035	1040	1045	1050	1055		
pH (Temperature Corrected? ☐)	8.20	8.21	8.21	8.21	8.21	8.20		
Temperature ☑ °C ☐ °F	23.41	23.43	23.45	23.48	23.48	23.48		
Dissolved Oxygen mg/L	1.54	1.03	0.89	0.83	0.81	0.85		
☑ SC or ☐ EC µS/cm	25.6	71.5	45.0	32.2	25.2	28.3		
Turbidity ☑ NTU	21.4	13.1	9.5	8.9	8.2	8.5		
Color/Tint	N/A	→	→	→	→	→		
Odor	N/A	→	→	→	→	→		

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 imperial gallon

Sample Data Sample Depth: 84.00 ☑ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW-16D	PO	5/27/10	1100	3					

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) BW Howell	Signature BW Howell

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☒ Facility Personnel ☐ ES&T Other: Delta	**Facility** Ashland Brunswick	**Site ID** MW-17S
	Project No. 3098495509	**Date** (m/d/y) 5/26/10

Site Description ☒ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 84 ☐ °C ☒ °F	Weather: P.C.
Well Locked? ☒ yes ☐ no	Damaged/Repairs Needed: N/A
☒ TOC ☐ MP Description:	
TOC/MP Stickup: 3 ☒ ft ☐ m above/below ground	Well Inside Diameter (ID): ☒ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data Measurement Units: ☒ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC: 14.39

☐ E-Tape, # ____ ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)	1450	1455	1500	1510	1520	1525	
Depth to Water	7.33	7.33					
Tape Correction	N/A						
Water Level (WL)							
Product Thickness	NA					→	
Product Recovery ☐ gallons ☐ liters	NA					→	

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters. List product type in "Remarks" column.

Field WQ Data Purge Depth: 10.0 ☒ Grab ☐ Bailer ☐ Pump Description: Peristaltic

Casing Volume: [14.39 (TD) - 7.33 (WL)] • [2 (Well ID)]² • [.0408 (Conversion Factor)] = 1.15 ☒ gal ☐ liters
Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches
Well Goes Dry While Purging ☐

☒ Cum. Vol. Purged ☐ Pumping Rate						(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)	1500	1505	1510	1515				
pH (Temperature Corrected? ☐)	7.54	7.54	7.54	7.55				
Temperature ☒ °C ☐ °F	22.85	22.92	22.85	22.83				
Dissolved Oxygen mg/L	3.99	3.68	3.54	3.49				
☒ SC or ☐ EC µS/cm	0.691	0.813	0.91	0.95				
Turbidity ☒ NTU	98.2	83.0	78.9	80.3				
Color/Tint	Amber	Clear	Clear	Clear				
Odor	None	None	None	None				
ORP	-91	-92	-93	-94				

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements; total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: 10.0 ☒ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW-17S	PO	5/26/10	1520	3					

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) BS THOMAS	Signature

Date Entered into Database ____ By ____ Page ___ of ___

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☒ Facility Personnel ☐ ES&T Other: Delta	**Facility** Ashland Brunswick	**Site ID** MW-17D
	Project No. 30984509	**Date** (m/d/y) 5/26/10

Site Description ☑ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 85	☐ °C ☒ °F	Weather: P.C
Well Locked? ☒ yes ☐ no		Damaged/Repairs Needed: N/A
☐ TOC ☐ MP Description:		
TOC/MP Stickup: 3	☑ ft ☐ m above/below ground	Well Inside Diameter (ID): ☑ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)		

Water Level Data Measurement Units: ☑ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC: Plo 86

☐ E-Tape, # ☐ Steel Tape ☑ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)	1455	1455	1500	1505	1510		
Depth to Water	6.22	6.22	6.22	6.15	6.10	6.12	
Tape Correction	N/A						
Water Level (WL)	9.22	9.22	9.22	9.15	9.10	9.12	
Product Thickness	N/A						
Product Recovery ☐ gallons ☐ liters	N/A						

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: 78.0 ☑ Grab ☐ Bailer ☐ Pump Description: Monsoon w/Regulato

Casing Volume: [Plo 86 (TOC) - 9.22 (WL)] * [2 (Well ID)]² * [.0408 (Conversion Factor)] = _____ ☑ gal ☐ liters

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☑ Cum. Vol. Purged ☐ Pumping Rate						(Final)	Meter Type	Remarks
	.50	1.0	2.0					
Time (hh:mm; 24-hr clock)	1500	1505	1510					
pH (Temperature Corrected ☑)	12.53	12.55	12.55					
Temperature ☑ °C ☐ °F	23.49	23.14	23.14					
Dissolved Oxygen mg/L	5.43	5.19	5.04					
☑ SC or ☐ EC µS/cm	7.38	7.40	7.39					
Turbidity ☑ NTU	5.1	5.0	5.2					
Color/Tint	N/A	N/A	N/A					
Odor	N/A	N/A	N/A					

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C): EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: 78.0 ☐ Grab ☐ Bailer ☑ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW-17D	PO	5/26/10	1520	3					

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; DU, Duplicate Sample; SP, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) BW HOWELL	Signature BW Howell

Date Entered Into Database _____ By _____ Page ___ of ___

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☒ Facility Personnel ☐ ES&T	**Facility** Ashland Brunswick	**Site ID** MW-18
Other: Delta	**Project No.** 5098495509	**Date** (m/d/y) 5/26/10

Site Description

☑ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 82° ☐ °C ☒ °F	Weather: P.C
Well Locked? ☒ yes ☐ no	Damaged/Repairs Needed: N/A
☑ TOC ☐ MP Description:	
TOC/MP Stickup: 3 ☑ ft ☐ m above/below ground	Well Inside Diameter (ID): ☑ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data

Measurement Units: ☑ ft ☐ m — Well or Borehole Total Depth (TD) from MP or TOC: 126.83

☐ E-Tape, # ☐ Steel Tape ☑ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)	0945	0945	0950	1010	1020	1075	
Depth to Water	14.41	14.41	14.41	14.22	1417	14.14	
Tape Correction	N/A	→	→	→	→	→	
Water Level (WL)	17.41	17.41	17.41	17.22	17.17	17.14	
Product Thickness	N/A	→	→	→	→	→	
Product Recovery ☐ gallons ☐ liters	N/A	→	→	→	→	→	

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data

Purge Depth: 120.0 ☑ Grab ☐ Bailer ☐ Pump Description: Monsoon w/ Regulato

Casing Volume: [126.83 (TD) - 17.41 (WL)] * [2 (Well ID)]² * [0.041 (Conversion Factor)] = 17.86 ☑ gal ☐ liters — Well Goes Dry While Purging ☐

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

☑ Cum. Vol. Purged ☐ Pumping Rate	3.0	5.0	8.0	11.0		(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)	0950	1000	1010	1020				
pH (Temperature Corrected? ☑)	10.23	9.96	9.48	9.24				
Temperature ☑ °C ☐ °F	22.72	22.68	22.75	22.97				
Dissolved Oxygen mg/L	2.51	2.36	2.21	2.18				
☑ SC or ☐ EC µS/cm	0.488	0.433	0.384	0.369				
Turbidity ☑ NTU	31.2	20.7	15.2	6.9				
Color/Tint	Clear	Clear	Clear	Clear				
Odor	N/A	N/A	N/A	N/A				

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data

Sample Depth: 120.0 ☑ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW-18	PO	5/26/10	1025						

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; DI#, Duplicate Sample; SI#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) Bill Howell	Signature Bill Howell

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☒ Facility Personnel ☐ ES&T	**Facility** Ashland Brunswick	**Site ID** MW-19S
Other: Delta	**Project No.** 30984950 9	**Date** (m/d/y) 5/26/10

Site Description ☑ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 83 ☐ °C ☒ °F	Weather: Cloudy
Well Locked? ☒ yes ☐ no	Damaged/Repairs Needed: N/A
☒ TOC ☐ MP Description:	
TOC/MP Stickup: 3 ☒ ft ☐ m (above/below ground)	Well Inside Diameter (ID): ☒ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data Measurement Units: ☒ ft ☐ m . Well or Borehole Total Depth (TD) from MP or TOC: 18.30

☐ E-Tape, # _____ ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)	1145	1145	1150	1205	1215	1220	
Depth to Water	11.09	11.09	11.12	11.66	11.65	11.62	
Tape Correction	N/A						
Water Level (WL)	8.09	8.09	8.12	8.66	8.65	8.62	
Product Thickness	N/A						
Product Recovery ☐ gallons ☐ liters	N/A						

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: 15.0 ☑ Grab ☐ Bailer ☐ Pump Description: Peristaltic

Casing Volume: [18.30 (TD) - 11.09 (WL)] • [2 (Well ID)]² • [.0408 (Conversion Factor)] = 1.17 ☒ gal ☐ liters

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☒ Cum. Vol. Purged ☐ Pumping Rate	0	1	2	3	4	5 (Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)	1150	1155	1200	1205	1210	1215		
pH (Temperature Corrected? ☐)	7.92	7.97	8.03	8.06	8.04	8.04		
Temperature ☒ °C ☐ °F	25.44	23.79	23.86	23.75	23.77	23.76		
Dissolved Oxygen mg/L	1.18	0.96	0.78	0.58	0.62	0.57		
☐ SC or ☐ EC µS/cm	26.1	5.23	2.86	1.50	1.54	1.50		
Turbidity ☐ NTU	95.6	87.9	89.5	96.7	46.9	96.5		
Color/Tint	Clear	Clear	Clear	Clear	Clear	Clear		
Odor	None	None	None	None	None	None		
ORP	-102	-117	-126	-135	-139	-146		

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: 15.0 ☑ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW-19S	PO	5/26/10	1220	3					

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; DS, Duplicate Sample; SS, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 6 characters) is name of laboratory that will analyze the sample. Case ID (up to 6 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) R.S. THOMAS	Signature

Date Entered into Database _____ By _____ Page ___ of ___

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☒ Facility Personnel ☐ ES&T Other: Delta	**Facility** Ashland Brunswick	**Site ID** MW-19I
	Project No. 30854509	**Date** (m/d/y) 5/26/10

Site Description ☑ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 85 ☐ °C ☒ °F	Weather: P.C.
Well Locked? ☒ yes ☐ no	Damaged/Repairs Needed: N/A
☑ TOC ☐ MP Description:	
TOC/MP Stickup: 3 ☐ ft ☐ m (above/below ground)	Well Inside Diameter (ID): ☑ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data Measurement Units: ☑ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC: 42.12

☐ E-Tape, # _____ ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)	1245	1245	1250	1255	1300	1305	
Depth to Water	8.61	8.61	8.61	8.42	8.38	8.35	
Tape Correction	N/A	→	→	→	→	→	
Water Level (WL)	11.61	11.61	11.61	11.42	11.38	11.35	
Product Thickness	N/A	→	→	→	→	→	
Product Recovery ☐ gallons ☐ liters	N/A	→	→	→	→	→	

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: 35.0 ☑ Grab ☐ Bailer ☐ Pump Description: Monsoon w/Regulato

Casing Volume: [42.12 (TD) - 11.61 (WL)] * [2 (Well ID)]² * [.0408 (Conversion Factor)] = 4.97 ☑ gal ☐ liters

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☑ Cum. Vol. Purged ☐ Pumping Rate						(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)	1250	1255	1300					
pH (Temperature Corrected? ☑)	6.79	6.76	6.75					
Temperature ☑ °C ☐ °F	24.06	24.04	24.05					
Dissolved Oxygen mg/L	2.83	2.28	2.14					
☑ SC or ☐ EC µS/cm	1.29	1.29	1.31					
Turbidity ☑ NTU	28.6	28.1	27.2					
Color/Tint	Clear	Clear	Clear					
Odor	N/A	N/A	N/A					

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: 35.0 ☑ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW-19I	PO	5/26/10	1305	3					

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; Dx, Duplicate Sample; Sx, Split Sample (sent to second lab); BFx, Field Blank; BRx, Equipment Rinsate; BTx, Trip Blank; SFx, Field Spike (x = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) RW Howell	Signature RW Howell

Date Entered Into Database _____ By _____ Page ___ of ___

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☒ Facility Personnel ☐ ES&T Other: Delta	**Facility** Ashland Brunswick	**Site ID** MW-19D
	Project No. 30884509	**Date (m/d/y)** 5/26/10

Site Description ☑ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 85° ☐ °C ☒ °F	Weather: P.C
Well Locked? ☒ yes ☐ no	Damaged/Repairs Needed: N/A
☑ TOC ☐ MP Description:	
TOC/MP Stickup: 3 ☑ ft ☐ m above/below ground	Well Inside Diameter (ID): ☑ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data Measurement Units: ☐ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC:

☐ E-Tape, # ☐ Steel Tape ☑ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)	1150	1150	1155	1205	1215	1220	
Depth to Water	12.55	12.55	12.55	12.41	12.36	12.33	
Tape Correction	N/A						
Water Level (WL)	15.55	15.55	15.55	15.41	15.36	15.33	
Product Thickness	N/A						
Product Recovery ☐ gallons ☐ liters	N/A						

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with *minus* (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters. List product type in "Remarks" column.

Field WQ Data Purge Depth: 80.0 ☑ Grab ☐ Bailer ☐ Pump Description: Monsoon W/Regulator

Casing Volume: [87.0 (TD) - 15.55 (WL)] • [2 (Well ID)]² • [.0408 (Conversion Factor)] = 11.77 ☑ gal ☐ liters

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☑ Cum. Vol. Purged ☐ Pumping Rate	1.5 ~~1.55~~	2.5	3.5	4.5	5.0	(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)	1155	1200	1205	1210	1215			
pH (Temperature Corrected? ☑)	11.97	12.02	12.05	12.06	12.05			
Temperature ☑ °C ☐ °F	24.22	24.09	24.07	24.07	23.80			
Dissolved Oxygen mg/L	5.20	5.01	4.93	4.89	4.68			
☑ SC or ☐ EC µS/cm	3.71	3.42	3.24	3.14	3.05			
Turbidity ☑ NTU	2.1	2.7	0.9	0.6	1.0			
Color/Tint	Clear	Clear	Clear	Clear	Clear			
Odor	N/A	N/A	N/A	N/A	N/A			

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: 80.0 ☑ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW-19D	PO	5/26/10	1225	3					

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; DI, Duplicate Sample; SI, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) BW HOWELL	Signature Bw Howell

Date Entered into Database _____ By _____ Page ___ of ___

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T	Facility Ashland – Bureau 4	Site ID MW-20S
Other: IES - Derek Rothe	Project No. 70981-850-9	Date (m/d/y) 6/2/10

Site Description ☑ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 78 ☐ °C ☑ °F	Weather: Sunny
Well Locked? ☑ yes ☐ no	Damaged/Repairs Needed: None
☐ TOC ☐ MP Description:	
TOC/MP Stickup: ☐ ft ☐ m above/below ground	Well Inside Diameter (ID): ☑ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data Measurement Units: ☑ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC: 12.33

☐ E-Tape, # _____ ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)	1020						
Depth to Water	7.39	✓	8.99	9.08	9.16		
Tape Correction	✓						
Water Level (WL)	7.39		8.99	9.08	9.16		
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: ☐ Grab ☐ Bailer ☑ Pump Description: peristaltic

Casing Volume: [_____(TD) - _____(WL)] • [_____(Well ID)]^2 • [_____(Conversion Factor)] = _____ ☐ gal ☐ liters
Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches
Well Goes Dry While Purging ☐

☑ Cum. Vol. Purged ☐ Pumping Rate						(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)	1020	1023	1028	1033	1035		Horiba U22	
pH (Temperature Corrected? ☐)	7.13	7.84	7.89	8.88	7.93			
Temperature ☐°C ☐°F	22.19	22.27	22.29	22.46	22.43			
Dissolved Oxygen mg/L	0.94	0.63	0.66	0.61	0.69			
☐ SC or ☐ EC µS/cm	0.397	0.812	0.864	0.987	0.999			
Turbidity ☐ NTU	73.5	41.2	29.6	27.4	19.2			
Color/Tint	cloudy	→	→	→	→			
Odor								
ORP	-174	-170	-139	-144	-152			

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: ☐ Grab ☐ Bailer ☑ Pump Description: peristaltic

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW-20S	PO	6/2/10	1035	5	✓	✓	✓	✓	✓

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print)	Signature

DELTA CONSULTANTS **GROUNDWATER SAMPLING RECORD**

Sampled By ☐ Facility Personnel ☐ ES&T Other: ES- Derek Rotland	Facility Ashland-Brunswick	Site ID MW-20I
	Project No. A0084-8509	Date (m/d/y) 6/2/10

Site Description ☑ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 82 ☐°C ☑°F Weather: Sunny

Well Locked? ☑ yes ☐ no Damaged/Repairs Needed: None

☐ TOC ☐ MP Description:

TOC/MP Stickup: 3 ☑ ft ☐ m above/below ground Well Inside Diameter (ID): ☑ 2-inch ☐ 4-inch Other:

Site Remarks (nearby wells pumping, tide, stream stage, etc.)

Water Level Data Measurement Units: ☑ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC: 32.43

☐ E-Tape, # ___ ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)	1205		1210	1220	1230		
Depth to Water	5.49		8.07	8.44	8.49		
Tape Correction	/	/	/	/	/		
Water Level (WL)	5.49	/	8.07	8.44	8.49		
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: ☐ Grab ☐ Bailer ☐ Pump Description: SS Mega Monsoon

Casing Volume: [____(TD) - ____(WL)] • [____(Well ID)]^2 • [____(Conversion Factor)] = ____ ☐ gal ☐ liters
Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

						(Final)	Meter Type	Remarks
☐ Cum. Vol. Purged ☑ Pumping Rate	750 mL/m	750 mL/m	705 500 mL/m	→				
Time (hh:mm; 24-hr clock)	1205	1210	1215	1220	1225	1230	Horiba U-22	
pH (Temperature Corrected? ☐)	7.47	7.45	7.44	7.40	7.39	7.38		
Temperature ☐°C ☐°F	24.08	23.70	23.68	23.59	23.57	23.56		
Dissolved Oxygen mg/L	0.53	0.55	0.57	0.28	0.26	0.29		
☐ SC or ☑ EC µS/cm	1.23	2.17	2.11	2.00	1.97			
Turbidity ☑ NTU	704	329	347	115	109	106		
Color/Tint	Cloudy	cloudy	cloudy	Cloud	cloud	cloudy		
Odor								
ORP	-163	-162	-163	-161	-164	-162		

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: ☐ Grab ☐ Bailer ☑ Pump Description: SS Mega Monsoon

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW-20I	P0	6/2/10	1230	5	/	/	/	/	

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: P0, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print)	Signature

users/forms/SampLog.doc/6/8/02 Date Entered into Database ______ By ______ Page ___ of ___

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T	Facility Ashland Bransville	Site ID MW20D
Other: Delta	Project No.	Date (m/d/y) 6/2/10

Site Description ☒ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 70 ☐ °C ☒ °F	Weather: Sunny
Well Locked? ☒ yes ☐ no	Damaged/Repairs Needed: NO
☒ TOC ☐ MP Description:	
TOC/MP Stickup: 3 ☒ ft ☐ m above/below ground	Well Inside Diameter (ID): ☒ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data Measurement Units: ☒ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC:

☐ E-Tape, # ____ ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)	1140						
Depth to Water	7.67			7.98			
Tape Correction							
Water Level (WL)							
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: ☐ Grab ☐ Bailer ☒ Pump Description:

Casing Volume: [_____(TD) - _____(WL)] • [_____(Well ID)]^2 • [_____(Conversion Factor)] = _____ ☒ gal ☐ liters

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☒ Pumping Rate						(Final)	Meter Type	Remarks
	650mL	650mL	650mL					
Time (hh:mm; 24-hr clock)	1140	1145	1150				Horiba	
pH (Temperature Corrected? ☐)	6.50	6.50	6.50				U-22	
Temperature ☐°C ☐°F	22.75	22.72	22					
Dissolved Oxygen mg/L	2.46	2.47	2.61					
☒ SC or ☐ EC mS/cm	3.37	3.32	3.21					
Turbidity ☒ NTU	227	228	220					
Color/Tint								
~~Odor~~ ORP	-74	-74	-72					

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW-20D	PO	6/2/10	1200						VOCs
~~MW20D~~		~~6/2/10~~	~~1200~~						~~TOC~~

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print)	Signature

Date Entered into Database _____ By _____ Page ___ of ___

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T	Facility Ashland Brunswick	Site ID MW-25S
Other: ES - Derek R	Project No.	Date (m/d/y) 6/3/10

Site Description ☐ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 85 ☐°C ☑°F	Weather: Sunny
Well Locked? ☑ yes ☐ no	Damaged/Repairs Needed:
☐ TOC ☐ MP Description:	
TOC/MP Stickup: ☐ ft ☐ m above/below ground	Well Inside Diameter (ID): ☑ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data Measurement Units: ☑ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC: 12.80

☐ E-Tape, # ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)							
Depth to Water	6.29		7.45	7.73	7.90		
Tape Correction							
Water Level (WL)	6.29		7.45	7.73	7.90		
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: ☐ Grab ☐ Bailer ☑ Pump Description: peristaltic

Casing Volume: [____(TD) - ____(WL)] • [____(Well ID)]^2 • [____(Conversion Factor)] = ____ ☑ gal ☐ liters — Well Goes Dry While Purging ☐

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

☐ Cum. Vol. Purged ☑ Pumping Rate						(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)	~~0830~~ 0900	0835	0840	0845	0850	0855	Horiba U-22	
pH (Temperature Corrected? ☐)	6.50	6.52	6.53	6.43	6.48	6.52		
Temperature ☐°C ☐°F	22.46	22.48	22.60	22.60	22.58	22.54		
Dissolved Oxygen mg/L	1.43	1.20	1.08	1.00	0.98	0.94		
☐ SC or ☐ EC µS/cm	0.697	0.730	0.784	0.761	0.774	0.777		
Turbidity ☐ NTU	199	168	147	110	123	118		
Color/Tint	Brn	Brn	Brn	Brn	Brn	Brn		
Odor								
ORP	-68	-79	-80	-84	-89	-75		

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: ☐ Grab ☐ Bailer ☑ Pump Description: peristaltic

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW-25S	PO	6/3/10	0855	5	✓	✓	✓	✓	
VOCs + Toxaphene									

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print)	Signature

Date Entered into Database _____ By _____

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T	Facility	Site ID MW-25D
Other: ES - Derek Rothaus	Project No.	Date (m/d/y) 6/3/10

Site Description ☐ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: ☐ °C ☐ °F	Weather: Sunny
Well Locked? ☑ yes ☐ no	Damaged/Repairs Needed: None
☐ TOC ☐ MP Description:	
TOC/MP Stickup: 1 ☑ ft ☐ m above/below ground	Well Inside Diameter (ID): ☑ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data Measurement Units: ☑ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC:

☐ E-Tape, # ____ ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)	0905		0905	0920	0932		
Depth to Water	7.08		14.24	14.61	14.93		
Tape Correction	~~7.08~~		~~14.24~~				
Water Level (WL)	7.08		14.24	14.61	14.93		
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with *minus* (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: ☐ Grab ☐ Bailer ☑ Pump Description: SS mega Monsoon

Casing Volume: [_____(TD) - _____(WL)] • [_____(Well ID)]^2 • [_____(Conversion Factor)] = _____ ☐ gal ☐ liters
Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☑ Pumping Rate	750 mL					(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)	0905	0910	0915	0920	0925	0930	Hach	
pH (Temperature Corrected? ☐)	7.30	7.35	7.43	7.42	7.44	7.43		
Temperature ☐°C ☐°F	24.89	24.10	24.07	24.02	24.00	24.00		
Dissolved Oxygen mg/L	1.29	1.15	0.87	0.61	0.53	0.69	0.58	
☐ SC or ☐ EC µS/cm	0.987	0.999	1.13	1.27	1.29	1.27		
Turbidity ☐ NTU	75.2	59.7	47.3	49.2	49.8	46.3		
Color/Tint	Cloudy	cloudy	cloudy	cloudy	cloudy	cloudy		
Odor								
ORP	-134	-135	-138	-140	-141	-140		

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: ☐ Grab ☐ Bailer ☑ Pump Description: SS mega Monsoon

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW-25D	PO	6/3/10	0930	5					
VOCs + Triplicate									

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; DF, Duplicate Sample; SF, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) Derek Rothaus	Signature

Date Entered into Database _____ By _____ Page ___ of ___

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☒ Facility Personnel ☐ ES&T Other: Delta	Facility Ashland Brunswick	Site ID MW-27D
	Project No. 5098495 09	Date (m/d/y) 5/26/10

Site Description ☑ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 85° ☐ °C ☒ °F	Weather: P.C.
Well Locked? ☒ yes ☐ no	Damaged/Repairs Needed: N/A
☐ TOC ☐ MP Description:	
TOC/MP Stickup: 3 ☑ ft ☐ m above/below ground	Well Inside Diameter (ID): ☑ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data Measurement Units: ☑ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC: 88.28

☐ E-Tape, # ____ ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)	1340	1340	1345	1355	1400	1405	
Depth to Water	8.29	8.29	8.29	8.26	8.23	8.19	
Tape Correction	N/A						
Water Level (WL)	11.29	11.29	11.29	11.26	11.23	11.19	
Product Thickness	N/A						
Product Recovery ☐ gallons ☐ liters	N/A						

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: 81.0 ☑ Grab ☐ Bailer ☐ Pump Description: Monsoon W/Regulator

Casing Volume: [88.28 (TD) - 11.29 (WL)] * [2 (Well ID)]² * [.0408 (Conversion Factor)] = 12.56 ☑ gal ☐ liters
Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches
Well Goes Dry While Purging ☐

☑ Cum. Vol. Purged ☐ Pumping Rate						(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)	1345	1350	1355	1400				
pH (Temperature Corrected? ☑)	6.85	6.84	6.80	6.77				
Temperature ☑ °C ☐ °F	23.34	23.21	23.24	23.26				
Dissolved Oxygen mg/L	3.17	2.21	2.07	2.02				
☑ SC or ☐ EC µS/cm	9.3	10.1	10.3	10.3				
Turbidity ☑ NTU	3.4	1.6	1.0	0.9				
Color/Tint	Clear	N/A	N/A	N/A				
Odor	N/A	N/A	N/A	N/A				

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: 81.0 ☑ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW-27D	PO	5/26/10	1405	5					

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; DI, Duplicate Sample; SI, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) B.W. Howell	Signature B.W. Howell

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T	Facility Ashland Brunswick	Site ID MW-28D
Other: Delta Delta	Project No.	Date (m/d/y) 6/8/10

Site Description ☑ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 85 ☐ °C ☑ °F	Weather: Clear skies
Well Locked? ☑ yes ☐ no	Damaged/Repairs Needed: None
☑ TOC ☐ MP Description:	Above Grade
TOC/MP Stickup: 2 ☑ ft ☐ m above/below ground	Well Inside Diameter (ID): ☑ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data Measurement Units: ☑ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC: 10.76

☐ E-Tape, # _____ ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)							
Depth to Water	6.50			6.21			
Tape Correction	-						
Water Level (WL)	6.50						
Product Thickness	-						
Product Recovery ☐ gallons ☐ liters	—						

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: ☐ Grab ☐ Bailer ☑ Pump Description: Submersible Monsoon

Casing Volume: [_____(TD) - _____(WL)] • [_____(Well ID)]^2 • [_____(Conversion Factor)] = _____ ☐ gal ☐ liters
Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☑ Pumping Rate						(Final)	Meter Type	Remarks
	500 ml/min							
Time (hh:mm; 24-hr clock)	Initial	1600	1605	1610	1615	1620	Horiba	
pH (Temperature Corrected? ☐)	6.20	6.19	6.04	6.00	5.98	5.99	U-22	
Temperature ☑ °C ☐ °F	23.41	23.34	23.26	23.24	23.25	23.23		
Dissolved Oxygen mg/L	3.88	2.70	2.79	2.80	2.87	3.01		
☑ SC or ☐ EC µS/cm	5.33	5.52	6.56	6.63	6.71	6.77		
Turbidity ☐ NTU	42.3	14.8	13.3	12.3	12.7	13.2		
Color/Tint	clear	Clear	clear	clear	Clear	Clear		
Odor TDS g/L	3.69	4.88	4.00	4.09	4.19	4.27		
ORP mV	-107	-112	-114	-114	-117	-115		

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: ☐ Grab ☐ Bailer ☑ Pump Description: SAA

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW-28D	PO	6/8/10	1620	3	No	T.A.	—	—	VOCs

Sample ID may be up to 15 characters. **Sample Result Code, Date, and Time must be entered.** Result Codes: PO, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print)	Signature

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☒ Facility Personnel ☐ ES&T Other: Delta Consultants	**Facility** Ashland Brunswick	**Site ID** MW-305
	Project No. 50984950.9	**Date** (m/d/y) 5/27/10

Site Description

☒ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 92 ☐ °C ☒ °F	Weather: Sunny
Well Locked? ☒ yes ☐ no	Damaged/Repairs Needed: NA
☒ TOC ☐ MP Description:	
TOC/MP Stickup: 3 ☒ ft ☐ m (above/below ground)	Well Inside Diameter (ID): ☒ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data

Measurement Units: ☒ ft ☐ m — Well or Borehole Total Depth (TD) from MP or TOC: 12.85

☐ E-Tape, # ☐ Steel Tape ☒ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)	1205	1205	1210	1220	1230	1240	
Depth to Water	6.30	6.30	6.42	6.68	6.71	6.61	
Tape Correction	N/A	→	→	→	→	→	
Water Level (WL)	3.30	3.30	3.42	3.68	3.71	3.61	
Product Thickness	NA	→	→	→	→	→	
Product Recovery ☐ gallons ☐ liters	NA	→	→	→	→	→	

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters. List product type in "Remarks" column.

Field WQ Data

Purge Depth: 11.0 ☒ Grab ☐ Bailer ☐ Pump Description: Peristaltic

Casing Volume: [12.85(TD) - 6.30(WL)] • [2(Well ID)]² • [.0408(Conversion Factor)] = 1.87 ☒ gal ☐ liters — ☐ Well Goes Dry While Purging

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

☒ Cum. Vol. Purged ☐ Pumping Rate	0	1.25	2.50	3.75	5.00	(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)	1210	1215	1220	1225	1230			
pH (Temperature Corrected? ☐)	4.98	4.97	4.98	4.88	4.87			
Temperature ☒ °C ☐ °F	21.56	21.89	22.10	22.12	22.18			
Dissolved Oxygen mg/L	4.35	3.72	2.81	2.86	2.89			
☒ SC or ☐ EC µS/cm	0.132	0.128	0.137	0.138	0.140			
Turbidity ☒ NTU	9.3	9.5	9.5	9.2	9.4			
Color/Tint	Clear	→	→	→	→			
Odor	None	→	→	→	→			
ORP	164	164	164	164	185			

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data

Sample Depth: 11.0 ☒ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW-305	PO	5/27/10	1235	5					

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) BS THOMAS	Signature

Date Entered into Database _____ By _____ Page ___ of ___

DELTA CONSULTANTS **GROUNDWATER SAMPLING RECORD**

Sampled By ☐ Facility Personnel ☐ ES&T	Facility Ashland - Brunswick	Site ID MW-30D
Other: Delta Consultants	Project No. J0984-850-9	Date (m/d/y) 5/27/10

Site Description ☑ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 85 ☐ °C ☑ °F Weather: P.C

Well Locked? ☑ yes ☐ no Damaged/Repairs Needed: N/A

☑ TOC ☐ MP Description:

TOC/MP Stickup: 3 ☑ ft ☐ m (above)/below ground Well Inside Diameter (ID): ☑ 2-inch ☐ 4-inch Other:

Site Remarks (nearby wells pumping, tide, stream stage, etc.)

Water Level Data Measurement Units: ☑ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC: 88.02

☐ E-Tape, # ☐ Steel Tape ☑ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)	1150	1150	1155	1205	1220	1225	
Depth to Water	5.11	5.11	5.10	5.01	4.72	4.70	
Tape Correction	N/A →						
Water Level (WL)	8.11	8.11	8.10	8.01	7.72	7.70	
Product Thickness	N/A →						
Product Recovery ☐ gallons ☐ liters	N/A →						

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: 85.00 ☑ Grab ☐ Bailer ☐ Pump Description: Monsoon w/ Regulator

Casing Volume: [88.02 (TD) - 8.11 (WL)] • [.0408 (Well ID)]^2 • [13.04 (Conversion Factor)] = 13.04 ☑ gal ☐ liters

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☑ Cum. Vol. Purged ☐ Pumping Rate	0	1.50	2.50	3.75	4.15	5.75 (Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)	1155	1200	1205	1210	1215	1220		
pH (Temperature Corrected? ☐)	7.85	7.82	7.79	7.75	7.74	7.74		
Temperature ☑ °C ☐ °F	22.65	22.41	22.34	22.36	22.36	22.36		
Dissolved Oxygen mg/L	0.61	0.41	0.28	0.22	0.26	0.29		
☑ SC or ☐ EC µS/cm	99.9	99.9	99.9	99.9	99.9	99.9		
Turbidity ☑ NTU	24.6	16.8	12.9	9.7	7.3	8.1		
Color/Tint	N/A →							
Odor	N/A →							

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: 85.00 ☑ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW 30D	P0	5/27/10	1225	3					

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: P0, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) BW Howell	Signature BW Howell

users/forms/SampLog.doc/5/8/02 Date Entered Into Database ________ By ______ Page 1 of __

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T Other: Delta	**Facility** Ashland Brunswick	**Site ID** MW31D
	Project No.	**Date (m/d/y)** 6/8/10

Site Description ☒ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: ☐ °C ☒ °F	Weather: Sunny
Well Locked? ☒ yes ☐ no	Damaged/Repairs Needed:
☒ TOC ☐ MP Description:	
TOC/MP Stickup: ☒ ft ☐ m above/below ground	Well Inside Diameter (ID): ☒ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data Measurement Units: ☒ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC: 87

☐ E-Tape, # _____ ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)							
Depth to Water	11.0		11.49	11.41			
Tape Correction							
Water Level (WL)							
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: 84 ☐ Grab ☐ Bailer ☒ Pump Description: SS Mega Monsoon

Casing Volume: [_____(TD) - _____(WL)]•[_____(Well ID)]²•[_____(Conversion Factor)] = _____ ☐ gal ☐ liters
Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☒ Pumping Rate					(Final)	Meter Type	Remarks
	600mL	600mL	600mL/min				
Time (hh:mm; 24-hr clock)	1315	1320	1325			Horiba	
pH (Temperature Corrected? ☐)	6.39	6.37	6.38			U-22	
Temperature ☐°C ☐°F	23.06	23.02	23.04				
Dissolved Oxygen mg/L	2.59	2.59	2.59				
☒ SC or ☐ EC µS/cm	1.50	1.56	1.59				
Turbidity ☐ NTU	14.5	12.5	10.5				
Color/Tint							
Odor	-93	-90	-85				

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW31D	P0	6/8/10	1330	3					~~1330~~ VOCs

Sample ID may be up to 15 characters. **Sample Result Code, Date, and Time must be entered.** Result Codes: P0, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print)	Signature

Date Entered into Database _____ By _____ Page ___ of ___

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T Other: Delta Consultants	**Facility** Ashland - Brunswick	**Site ID** MW-32D
	Project No. J0984-850-9	**Date** (m/d/y) 5/27/10

Site Description ☑ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 88 ☐ °C ☑ °F	Weather: P.C.	
Well Locked? ☑ yes ☐ no	Damaged/Repairs Needed: N/A	
☑ TOC ☐ MP Description:		
TOC/MP Stickup: 3 ☑ ft ☐ m above/below ground	Well Inside Diameter (ID): ☑ 2-inch ☐ 4-inch Other:	
Site Remarks (nearby wells pumping, tide, stream stage, etc.)		

Water Level Data Measurement Units: ☑ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC:

☐ E-Tape, # ___ ☐ Steel Tape ☑ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)	1300	1300	1305	1320	1325	1330	
Depth to Water	6.30	6.30	6.31	6.15	6.08	6.03	
Tape Correction	N/A						
Water Level (WL)	9.30	9.30	9.31	9.15	9.08	9.03	
Product Thickness	N/A						
Product Recovery ☐ gallons ☐ liters	N/A						

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: 85.00 ☑ Grab ☐ Bailer ☐ Pump Description:

Casing Volume: [97.31 (TD) - 9.31 (WL)] • [2 (Well ID)]² • [.0408 (Conversion Factor)] = 12.73 ☑ gal ☐ liters

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☑ Cum. Vol. Purged ☐ Pumping Rate						(Final)	Meter Type	Remarks
	.60	1.75	2.75	3.75	4.75			
Time (hh:mm; 24-hr clock)	1305	1310	1315	1320	1325			
pH (Temperature Corrected? ☑)	8.00	7.61	7.55	7.55	7.55			
Temperature ☑ °C ☐ °F	23.63	23.63	23.42	23.42	23.42			
Dissolved Oxygen mg/L	1.43	1.00	0.78	0.77	0.75			
☑ SC or ☐ EC µS/cm	51.8	60.7	55.2	55.5	54.8			
Turbidity ☑ NTU	19.7	10.2	10.0	8.2	9.6			
Color/Tint	N/A	N/A	N/A	N/A	N/A			
Odor	↓	↓	↓	↓	↓			

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). • µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: 85.00 ☑ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW-32D	PO	5/27/10	1330	5					

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) BW Howell	Signature BW Howell

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T	**Facility** Ashland - Bucyrus	**Site ID** MW-33
Other: DELTA CONSULTANTS	**Project No.** 30984.850-9	**Date (m/d/y)** 5/27/10

Site Description ☑ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 88 ☐ °C ☑ °F	Weather: P.C.
Well Locked? ☑ yes ☐ no	Damaged/Repairs Needed: N/A
☑ TOC ☐ MP Description:	
TOC/MP Stickup: 3 ☑ ft ☐ m (above)/below ground	Well Inside Diameter (ID): ☑ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data Measurement Units: ☑ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC: 127.86

☐ E-Tape, # ____ ☐ Steel Tape ☑ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)	1425	1425	1430	1445	1455	1500	
Depth to Water	2.96	2.96	2.95	2.81	2.63	2.63	
Tape Correction	N/A →					→	
Water Level (WL)	5.96	5.96	5.95	5.81	5.63	5.63	
Product Thickness	N/A →					→	
Product Recovery ☐ gallons ☐ liters	N/A →					→	

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: 120.00 ☑ Grab ☐ Bailer ☐ Pump Description: Monsoon w/ Regulator

Casing Volume: [127.86 (TD) - 5.96 (WL)] • [2 (Well ID)]² • [.0408 (Conversion Factor)] = 19.89 ☑ gal ☐ liters — Well Goes Dry While Purging ☐

Conversion Factor = 0.0408 for feet and gallons; 0.1644 for feet and liters; 0.5066 for meters and liters; Well ID in inches

☑ Cum. Vol. Purged ☐ Pumping Rate						(Final)	Meter Type	Remarks
	0.25	1.50	2.25	3.25	4.25	5.25		
Time (hh:mm; 24-hr clock)	1430	1435	1440	1445	1450	1455		
pH (Temperature Corrected? ☑)	7.61	8.35	8.34	8.33	8.34	8.34		
Temperature ☑ °C ☐ °F	24.70	24.57	24.51	24.43	24.43	24.43		
Dissolved Oxygen mg/L	0.72	0.37	0.37	0.27	0.32	0.35		
☑ SC or ☐ EC µS/cm	99.9	99.9	99.9	99.9	99.9	99.9		
Turbidity ☑ NTU	20.2	22.8	22.4	9.6	9.2	10.0		
Color/Tint	N/A	N/A	N/A	N/A	N/A	N/A		
Odor	↓	↓	↓	↓	↓	↓		

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or l.pm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: 120.0 ☑ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW-33	PO	5/27/10	1505	3					

Sample ID may be up to 16 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; DF, Duplicate Sample; SF, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) BW Howell	Signature BW Howell

Date Entered into Database _____ By _____ Page ___ of ___

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T Other: Delta	Facility Ashland Brunswick	Site ID MW34
	Project No.	Date (m/d/y) 6/8/10

Site Description ☒ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 90 ☐ °C ☒ °F	Weather:
Well Locked? ☒ yes ☐ no	Damaged/Repairs Needed:
☒ TOC ☐ MP Description:	
TOC/MP Stickup: 3 ☒ ft ☐ m above/below ground	Well Inside Diameter (ID): ☐ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data Measurement Units: ☐ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC: 12.7

☐ E-Tape, # ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)							
Depth to Water	10.44			10.60			
Tape Correction							
Water Level (WL)							
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: 12.6 ☐ Grab ☐ Bailer ☒ Pump Description: SS Mega Monsoon

Casing Volume: [_____(TD) - _____(WL)] • [_____(Well ID)]² • [_____(Conversion Factor)] = _____ ☐ gal ☐ liters
Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☐ Pumping Rate	~~Init~~ 600 mL/min					(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)							Horiba	
pH (Temperature Corrected? ☐)	7.61	7.63	7.63				U-22	
Temperature ☐°C ☐°F	23.69	23.49	23.49					
Dissolved Oxygen mg/L	2.05	2.26	2.24					
☒SC or ☐ EC mS/cm	.413	.418	.418					
Turbidity ☒NTU	9.0	7.8	8.10					
Color/Tint								
~~Odor~~ ORP	-234	-245	-244					

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW34	P0	~~6/8/10~~ 6/8/10	1230						VOCs

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: P0, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print)	Signature

Date Entered into Database _____ By _____ Page ___ of ___

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T	Facility Ashland Bismarck	Site ID MW-35D
Other: Delta	Project No.	Date (m/d/y) 6/8/10

Site Description

☑ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 85 ☐ °C ☑ °F	Weather: Clear Skies
Well Locked? ☑ yes ☐ no	Damaged/Repairs Needed: None
☑ TOC ☐ MP Description:	Above Grade
TOC/MP Stickup: 2 ☑ ft ☐ m above/below ground	Well Inside Diameter (ID): ☑ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data

Measurement Units: ☑ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC: 88.28

☐ E-Tape, # _____ ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)							
Depth to Water							
Tape Correction	–						
Water Level (WL)							
Product Thickness	–						
Product Recovery ☐ gallons ☐ liters	–						

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data

Purge Depth: ☐ Grab ☐ Bailer ☑ Pump Description: Submersible Monsoon

Casing Volume: [_____(TD) - _____(WL)] • [_____(Well ID)]^2 • [_____(Conversion Factor)] = _____ ☐ gal ☐ liters

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☑ Pumping Rate	500 ml/min					(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)	Initial	1605	1610	1615	1620	1625	Horiba	
pH (Temperature Corrected? ☐)	7.36	7.42	7.44	7.43	7.44	7.49	U-22	
Temperature ☑ °C ☐ °F	24.45	24.48	24.67	24.75	24.69	24.69		
Dissolved Oxygen mg/L	2.47	2.39	2.62	2.51	2.54	2.59		
☑ SC or ☐ EC µS/cm	0.566	0.581	0.563	0.569	0.567	0.568		
Turbidity ☑ NTU	32.5	30.9	34.7	34.1	33.8	33.7		
Color/Tint	Clear	Clear	Clear	Clear	Clear	Clear		
~~Odor~~ TDS g/L	0.364	0.371	0.338	0.362	0.378	0.353		
ORP mV	-147	-125	-117	-112	-118	-120		

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data

Sample Depth: ☐ Grab ☐ Bailer ☑ Pump Description: SAA

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW-35D	PO	6/8/10	1525	5	No	T.A.	–	–	VOCs
									Tedlar bag

Sample ID may be up to 15 characters. **Sample Result Code, Date, and Time must be entered.** Result Codes: PO, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print)	Signature

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☒ Facility Personnel ☐ ES&T Other: Delta	**Facility** Ashland Brunswick	**Site ID** MW-375
	Project No. 30984950 9	**Date (m/d/y)** 5/25/10

Site Description ☒ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 85 ☐ °C ☒ °F	Weather: Sunny / Partly cloudy
Well Locked? ☒ yes ☐ no	Damaged/Repairs Needed: N/A
☒ TOC ☐ MP Description:	
TOC/MP Stickup: 3 ☒ ft ☐ m above/below ground	Well Inside Diameter (ID): ☒ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data Measurement Units: ☐ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC: 26.0

☐ E-Tape, # ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)	1600	1605	1608	1610	1630	1655	
Depth to Water	7.70	7.80	7.74	7.97	7.89	7.85	
Tape Correction	N/A						
Water Level (WL)	4.70	4.70	4.74	4.97	4.89	4.85	
Product Thickness	NA	NA	NA	NA	NA	NA	
Product Recovery ☐ gallons ☐ liters	NA	NA	NA	NA	NA	NA	

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: 20 ☒ Grab ☐ Bailer ☐ Pump Description: Peristaltic

Casing Volume: [25 (TD) - 7.70 (WL)] • [2" (Well ID)]² • [.165 (Conversion Factor)] = 11.27 ☒ gal ☐ liters — Well Goes Dry While Purging ☐

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

☐ Cum. Vol. Purged ☐ Pumping Rate						(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)	1600	1605	1610	1615	1620	1625		
pH (Temperature Corrected? ☐)	5.58	5.56	5.57	5.55	5.55	5.54		
Temperature ☒ °C ☐ °F	22.96	23.08	23.08	23.05	22.84	22.87		
Dissolved Oxygen mg/L	1.86	1.74	1.68	1.60	1.56	1.52		
☒ SC or ☐ EC µS/cm	1.15	0.541	0.417	0.413	0.422	0.436		
Turbidity ☒ NTU	31.9	34.0	42.3	56.6	64.0	68.1		
Color/Tint	Clear							
Odor	None							
ORP	-149	-146	-147	-149	-148	-149		

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: 20 ☒ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW-375	PO	5/25/10	1650	6					

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; DU, Duplicate Sample; SP, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) B STEVENS	Signature

Date Entered into Database _____ By _____ Page ___ of ___

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T	Facility Ashland	Site ID MW-37I
Other: Delta	Project No. J0984-950-9	Date (m/d/y)

Site Description ☑ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 86° ☐ °C ☑ °F	Weather: P.C.
Well Locked? ☑ yes ☐ no	Damaged/Repairs Needed: N/A
☑ TOC ☐ MP Description:	
TOC/MP Stickup: 3 ☑ ft ☐ m (above)/below ground	Well Inside Diameter (ID): ☑ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data Measurement Units: ☑ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC: 15.0

☐ E-Tape, # ☐ Steel Tape ☑ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)	1810	1810	1815	1825	1830	1835	
Depth to Water	7.81	7.81	7.81	7.75	7.68	7.60	
Tape Correction	N/A						
Water Level (WL)	10.81	10.81	10.81	10.75	10.68	10.60	
Product Thickness	N/A						
Product Recovery ☐ gallons ☐ liters	N/A						

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: 70 ☑ Grab ☐ Bailer ☐ Pump Description: Monsoon w/Regulator

Casing Volume: [15 (TD) - 10.81 (WL)] • [2 (Well ID)]² • [.0408 (Conversion Factor)] = 10.47 ☑ gal ☐ liters

Well Goes Dry While Purging ☐

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

☑ Cum. Vol. Purged ☐ Pumping Rate						(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)	1815	1820	1825	1835				
pH (Temperature Corrected? ☐)	7.95	7.82	7.89	7.78				
Temperature ☑ °C ☐ °F	24.90	24.65	24.72	24.53				
Dissolved Oxygen mg/L	5.95	5.65	5.67	5.74				
☑ SC or ☐ EC µS/cm	0.915	1.15	1.13	1.28				
Turbidity ☑ NTU	47.1	32.4	43.4	52.6				
Color/Tint	CLEAR	Clear	Clear	Cloudy				
Odor	SULFUR	N/A	N/A	N/A				

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 l. = 0.833 Imperial gallon

Sample Data Sample Depth: 70 ☑ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID.	SDG ID	Remarks
MW-37I	PO	5/25/10	1840	6					

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) BW HOWELL	Signature B W Howell

Date Entered into Database _____ By _____ Page ___ of ___

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T Other: Delta	**Facility** Ashland-Brunswick	**Site ID** MW-37D
	Project No. 509864-850.9	**Date (m/d/y)** 5/26/10

Site Description ☑ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 85 ☐ °C ☑ °F	Weather: P.C
Well Locked? ☑ yes ☐ no	Damaged/Repairs Needed: N/A
☑ TOC ☐ MP Description:	
TOC/MP Stickup: 3 ☑ ft ☐ m above/below ground	Well Inside Diameter (ID): ☑ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data Measurement Units: ☑ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC: 110.0

☐ E-Tape, # ___ ☐ Steel Tape ☑ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)	1555	1555	1600	1625	1730	1735	
Depth to Water	3.97	3.97	3.97	3.85	3.80	3.80	
Tape Correction	N/A						
Water Level (WL)	6.97	6.97	6.97	6.85	6.80	6.80	
Product Thickness	N/A						
Product Recovery ☐ gallons ☐ liters	N/A						

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: 108.0 ☑ Grab ☐ Bailer ☐ Pump Description: Monsoon w/Regulator

Casing Volume: [110.0 (TD) - 6.97 (WL)] • [2 (Well ID)]^2 • [0.163 (Conversion Factor)] = 16.79 ☑ gal ☐ liters

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☑ Cum. Vol. Purged ☑ Pumping Rate	5.0	10.0	15.0	20.00		(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)	1600	1625	1720	1730				
pH (Temperature Corrected? ☐)	7.43	8.32	8.20	8.16				
Temperature ☑ °C ☐ °F	27.19	25.86	25.75	25.68				
Dissolved Oxygen mg/L	5.02	3.77	3.89	3.73				
☑ SC or ☑ EC µS/cm	0.433	0.496	0.444	0.465				
Turbidity ☑ NTU	11.2	23.8	19.1	22.3				
Color/Tint	CLEAR	CLEAR	CLEAR	Clear				
Odor	N/A	N/A	N/A	N/A				

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: 108.0 ☑ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW-37D	PO	5/25/10	1750	3					

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-nnn. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) BW Howell	Signature BW Howell

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T	Facility Ashland - Brainard	Site ID MW-385
Other: ES- Derek Rothrock	Project No. J0984-850-9	Date (m/d/y) 6/2/10

Site Description ☑ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 80 ☐ °C ☑ °F	Weather: Sunny
Well Locked? ☑ yes ☐ no	Damaged/Repairs Needed: None
☐ TOC ☐ MP Description:	
TOC/MP Stickup: 3 ☑ ft ☐ m above/below ground	Well Inside Diameter (ID): ☑ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data Measurement Units: ☑ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC: 25

☐ E-Tape, # _____ ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)	1055		1058	1115	1125		
Depth to Water	7.14		9.63	10.09	10.27		
Tape Correction	✓		✓	✓	✓		
Water Level (WL)	7.14		9.63	10.09	10.27		
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: ☐ Grab ☐ Bailer ☑ Pump Description: peristaltic

Casing Volume: [25 (TD) - 7.14 (WL)] • [2 (Well ID)]² • 0.0408 (Conversion Factor) = 3.0 ☑ gal ☐ liters

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☑ Pumping Rate	~~0.50~~	3.0	6.0	9.0		(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)	1055	1105	1115	1125			Horiba U-22	
pH (Temperature Corrected? ☐)	7.06	7.07	7.07	7.06				
Temperature ☐°C ☐°F	24.57	24.16	23.21	23.17				
Dissolved Oxygen mg/L	1.12	1.09	0.99	0.96				
☐ SC or ☐ EC µS/cm	3.79	2.29						
Turbidity ☐ NTU	62.4	24.4	19.7	16.2				
Color/Tint	Cloudy	cloudy	SL cloudy	SL cloudy				
Odor	✓	✓	✓	✓				
ORP	-113	-119	-122	-127				

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: ☐ Grab ☐ Bailer ☑ Pump Description: Peristaltic

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW-385	PO	6/2/10	1025	6	✓	✓	✓	✓	✓

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) Derek Rothrock	Signature

Date Entered into Database _____ By _____ Page ___ of ___

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T	Facility Ashland Brunswick	Site ID MW-38I
Other: Delta	Project No.	Date (m/d/y) 6/2/10

Site Description ☐ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 90 ☐ °C ☒ °F	Weather: Sunny
Well Locked? ☒ yes ☐ no	Damaged/Repairs Needed: No
☒ TOC ☐ MP Description:	
TOC/MP Stickup: 3 ☒ ft ☐ m above/below ground	Well Inside Diameter (ID): ☒ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data Measurement Units: ☒ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC:

☐ E-Tape, # _____ ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)							
Depth to Water	5.91			6.33			
Tape Correction							
Water Level (WL)							
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: ☐ Grab ☐ Bailer ☒ Pump Description:

Casing Volume: [_____(TD) - _____(WL)] • [_____(Well ID)]^2 • [_____(Conversion Factor)] = _____ ☐ gal ☐ liters

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☒ Pumping Rate	700 mL/m	700	700			(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)	1345	1350	1355				Horriba	
pH (Temperature Corrected? ☐)	7.45	7.32	7.18				U-22	
Temperature ☒ °C ☐ °F	23.1	22.81	22.67					
Dissolved Oxygen mg/L	2.07	2.01	1.99					
☒ SC or ☐ EC µS/cm	1.02	1.09	1.00					
Turbidity ☐ NTU	33.1	28.9	23.0					
Color/Tint								
Odor	-170	-172	-175					

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW-38I	PO	6/2/10	1400						VOC's
									TOX
									Metals

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print)	Signature

Date Entered into Database _____ By _____ Page ___ of ___

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T Other: Delta	Facility Ashland Brunswick	Site ID MW38D
	Project No.	Date (m/d/y) 6/2/10

Site Description ☒ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 90 ☐ °C ☒ °F	Weather: Sunny
Well Locked? ☒ yes ☐ no	Damaged/Repairs Needed: No
☒ TOC ☐ MP Description:	
TOC/MP Stickup: 3 ☒ ft ☐ m above/below ground	Well Inside Diameter (ID): ☒ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data Measurement Units: ☒ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC: 85

☐ E-Tape, # _____ ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)							
Depth to Water	7.22		7.58				
Tape Correction							
Water Level (WL)							
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: 80 ☐ Grab ☐ Bailer ☒ Pump Description: SS mega Monsoon 8

Casing Volume: [_____(TD) - _____(WL)] • [_____(Well ID)]^2 • [_____(Conversion Factor)] = _____ ☐ gal ☐ liters
Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

☐ Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☒ Pumping Rate	700mL	700mL	700mL			(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)	1245	1250	1255				YSI	Horriba
pH (Temperature Corrected? ☐)	7.21	7.22	7.23				U-22	
Temperature ☐°C ☐°F	23.21	23.10	22.96					
Dissolved Oxygen mg/L	2.32	2.25	2.23					
☒ SC or ☐ EC mS/cm	5.30	5.28	5.21					
Turbidity ☒ NTU	<10	<10	<10					
Color/Tint								
Odor	-92	-88	-83					

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW38D	PO	6/2/10	1300						VOC's
									Metals
									TOX

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) Ryan McLinn	Signature

Date Entered into Database _____ By _____

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T	Facility Ashland-Bronson 4	Site ID MW-39S
Other: ES - Derek Roffler	Project No. 0984-850-9	Date (m/d/y) 6/2/10

Site Description ☑ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 82 ☐ °C ☑ °F	Weather: Sunny
Well Locked? ☑ yes ☐ no	Damaged/Repairs Needed: None
☑ TOC ☐ MP Description:	
TOC/MP Stickup: 3 ☐ ft ☐ m above/below ground	Well Inside Diameter (ID): ☑ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data Measurement Units: ☑ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC: 25

☐ E-Tape, # ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)	0910		0920	0925	0930		
Depth to Water	9.21		12.32	12.53	12.53		
Tape Correction							
Water Level (WL)	9.21		12.32	12.53	12.53		
Product Thickness			12				
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: ☐ Grab ☐ Bailer ☑ Pump Description: peristaltic

Casing Volume: [25 (TD) - 9.21 (WL)] • [2 (Well ID)]^2 • [0.0408 (Conversion Factor)] = 2.6 ☐ gal ☐ liters

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☑ Cum. Vol. Purged ☐ Pumping Rate						(Final)	Meter Type	Remarks
	0	2.6	5.2	7.8	10.4		Horiba U-22	
Time (hh:mm; 24-hr clock)	0910	0915	0920	0925	0930			
pH (Temperature Corrected? ☐)	7.80	7.44	7.49	7.63	7.60			
Temperature ☐°C ☐°F	23.58	22.99	22.93	22.91	22.86			
Dissolved Oxygen mg/L	2.14	1.47	1.12	1.08	0.99			
☐ SC or ☐ EC µS/cm	0.239	0.477	0.529	0.547	0.602			
Turbidity ☐ NTU	37.4	47.8	67.2	70.4	69.8			
Color/Tint	cloudy	cloudy	cloudy	cloudy	cloudy			
Odor								
ORP	-123	-129	-133	-133	-138			

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: ☐ Grab ☐ Bailer ☑ Pump Description: peristaltic

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW-39S	PO	6/2/10	0930	9	✓	✓	✓	✓	✓

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print)	Signature

Date Entered into Database _____ By _____ Page ___ of ___

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T	Facility Ashland Brunswick	Site ID MW39I
Other:	Project No.	Date (m/d/y) 6/2/10

Site Description ☐ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 90	☐ °C ☒ °F	Weather: Sunny
Well Locked? ☒ yes	☐ no	Damaged/Repairs Needed: No
☒ TOC	☐ MP Description:	
TOC/MP Stickup: 3	☒ ft ☐ m above/below ground	Well Inside Diameter (ID): ☒ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)		

Water Level Data Measurement Units: ☒ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC

☒ E-Tape, # ____ ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)	1030	1035					
Depth to Water	7.96	7.96	8.59	8.05	8.68	7.82	
Tape Correction							
Water Level (WL)							
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with *minus* (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for less product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Casing Volume: [____(TD) - ____(WL)] • [____(Well ID)]^2 • [____(Conversion Factor)] = ____ ☐ gal ☐ liters
Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☐ Pumping Rate			(Final)	Meter Type	Remarks
	600 mL	→			
Time (hh:mm; 24-hr clock)	1035	1040	1045	Horiba	
pH (Temperature Corrected? ☐)	6.89	6.88	6.84	U-22	
Temperature ☐°C ☐°F	23.14	23.10	23.09		
Dissolved Oxygen mg/L	2.26	2.24	2.26		
☒ SC or ☐ EC µS/cm	2.47	2.48	2.49		
Turbidity ☐ NTU	21	18	14		
Color/Tint					
~~Odor~~ ORP	-125	-121	-123		

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW-39I	P0	6/2/10	1050						VOCs
MW39I		6/2/10	1050						Metals

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: P0, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) Ryan McLain	Signature

Date Entered into Database ____ By ____

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T	Facility Ashland Brunswick	Site ID MW39D
Other: Delta	Project No.	Date (m/d/y) 6/2/10

Site Description ☒ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 90 ☐ °C ☒ °F	Weather: Sunny
Well Locked? ☒ yes ☐ no	Damaged/Repairs Needed: NA
☒ TOC ☐ MP Description:	
TOC/MP Stickup: 3 ☒ ft ☐ m above/below ground	Well Inside Diameter (ID): ☒ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data Measurement Units: ☒ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC: 85

☒ E-Tape, # ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)							
Depth to Water	7.93	7.93	7.93	8.62	[illegible]		
Tape Correction					8.60'		
Water Level (WL)							
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters. List product type in "Remarks" column.

Field WQ Data Purge Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Casing Volume: [_____(TD) - _____(WL)] • [_____(Well ID)]^2 • [_____(Conversion Factor)] = _____ ☐ gal ☐ liters
Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☐ Pumping Rate	550 mL/min	→	→	→	(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)						Horiba	
pH (Temperature Corrected? ☐)	7.37	7.24	7.19	7.21		U-22	
Temperature ☐°C ☐°F	25.68	24.7	23.87	23.65			
Dissolved Oxygen mg/L	3.24	3.46	3.62	3.65			
☐ SC or ☐ EC µS/cm	.49	.442	.430	.426			
Turbidity ☐ NTU	198.0	24.4	14.9	9.1			
Color/Tint							
Odor ORP	121	-136	-139	-136			

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW39D	PO	6/2/10	1000	4					[illegible]
									Metals
									VOCs

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print)	Signature

Date Entered into Database _____ By _____ Page ___ of ___

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☒ Facility Personnel ☐ ES&T Other: Delta	**Facility** Ashland Brunswick **Project No.** 5098495 09	**Site ID** MW-405 **Date** (m/d/y) 5/26/10

Site Description ☑ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 85 ☐ °C ☒ °F	Weather: P.C.
Well Locked? ☒ yes ☐ no	Damaged/Repairs Needed: N/A
☑ TOC ☐ MP Description:	
TOC/MP Stickup: 3 ☑ ft ☐ m (above/below ground)	Well Inside Diameter (ID): ☑ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data Measurement Units: ☑ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC: 22.00

☐ E-Tape, # ____ ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)	1725	1725	1730	1740	1750	1755	
Depth to Water	5.39	5.39	5.39	5.33	5.27	5.25	
Tape Correction	N/A →					→	
Water Level (WL)	8.39	8.39	8.39	8.33	8.27	8.25	
Product Thickness	N/A →					→	
Product Recovery ☐ gallons ☐ liters	N/A →					→	

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for less product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: 15.0 ☑ Grab ☐ Bailer ☐ Pump Description: Peristaltic

Casing Volume: [22.00 (TD) - 8.39 (WL)] * [2 (Well ID)]² * [.0408 (Conversion Factor)] = 2.22 ☐ gal ☐ liters

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☑ Cum. Vol. Purged ☐ Pumping Rate	.50	1.25	2.00	2.75	3.50	(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)	1730	1735	1740	1745	1750			
pH (Temperature Corrected? ☐)	6.17	6.16	6.12	6.15	6.14			
Temperature ☑ °C ☐ °F	22.79	22.88	22.80	22.86	22.85			
Dissolved Oxygen mg/L	7.69	7.82	7.60	7.61	7.58			
☑ SC or ☐ EC µS/cm	0.295	0.310	0.315	0.317	0.315			
Turbidity ☑ NTU	193.0	188.0	180.0	181.0	179.0			
Color/Tint	Cloudy	Cloudy	Cloudy	Cloudy	Cloudy			
Odor	N/A	N/A	N/A	N/A	N/A			

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: 15.0 ☑ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW-405	PO	5/26/10	1800	6					

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) BW Howell	Signature BW Howell

Date Entered Into Database _____ By _____

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☒ Facility Personnel ☐ ES&T Other: Delta	**Facility** Ashland Brunswick	**Site ID** MW-40I
	Project No. 30984509	**Date** (m/d/y) 5/26/10

Site Description ☑ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 86 ☐ °C ☒ °F	Weather: P.C
Well Locked? ☒ yes ☐ no	Damaged/Repairs Needed: N/A
☑ TOC ☐ MP Description:	
TOC/MP Stickup: 3 ☑ ft ☐ m above/below ground	Well Inside Diameter (ID): ☑ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data Measurement Units: ☑ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC: 52.10

☐ E-Tape, # ____ ☐ Steel Tape ☑ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)	1555	1555	1600	1610	1615	1620	
Depth to Water	6.50	6.50	6.50	6.41	6.37	6.36	
Tape Correction	N/A						
Water Level (WL)	9.50	9.50	9.50	9.41	9.37	9.36	
Product Thickness	N/A						
Product Recovery ☐ gallons ☐ liters	N/A						

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with *minus* (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: 48.0 ☑ Grab ☐ Bailer ☒ Pump Description: Monsoon w/Regulato

Casing Volume: [52.10 (TD) - 9.50 (WL)] * [2 (Well ID)]² * [.0408 (Conversion Factor)] = 6.95 ☑ gal ☐ liters — Well Goes Dry While Purging ☐

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

☑ Cum. Vol. Purged ☐ Pumping Rate						(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)	1600	1605	1610	1615				
pH (Temperature Corrected? ☐)	6.94	6.87	6.86	6.85				
Temperature ☑ °C ☒ °F	24.07	24.08	24.12	24.10				
Dissolved Oxygen mg/L	2.32	2.14	2.13	2.09				
☑ SC or ☐ EC µS/cm	0.507	0.526	0.530	0.533				
Turbidity ☑ NTU	5.9	3.4	3.3	3.7				
Color/Tint	N/A	N/A	N/A	N/A				
Odor	N/A	N/A	N/A	N/A				

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: 48.0 ☑ Grab ☐ Bailer ☒ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW-40I	PO	5/26/10	1620	10					

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; DI#, Duplicate Sample; SI#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) Bill Howell	Signature Bill Howell

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☒ Facility Personnel ☐ ES&T	Facility Ashland Brunswick	Site ID MW-40D
Other: Delta	Project No. 5098498509	Date (m/d/y) 5/26/10

Site Description ☑ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 85 ☐ °C ☒ °F	Weather: P.C.
Well Locked? ☒ yes ☐ no	Damaged/Repairs Needed: N/A
☑ TOC ☐ MP Description:	
TOC/MP Stickup: 3 ☑ ft ☐ m above/below ground	Well Inside Diameter (ID): ☑ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data Measurement Units: ☑ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC: 112.54

☐ E-Tape, # ☐ Steel Tape ☑ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)	1640	1640	1645	1655	1700	1705	
Depth to Water	7.26	7.26	7.26	7.23	7.19	7.21	
Tape Correction	N/A						
Water Level (WL)	10.26	10.26	10.26	10.23	10.19	10.21	
Product Thickness	N/A						
Product Recovery ☐ gallons ☐ liters	N/A						

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: 108.0 ☑ Grab ☐ Bailer ☑ Pump Description: Monsoon w/ Regulator

Casing Volume: [112.54 (TD) - 10.26 (WL)] * [2 (Well ID)]² * [.0408 (Conversion Factor)] = 16.69 ☐ gal ☐ liters
Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches
Well Goes Dry While Purging ☐

☑ Cum. Vol. Purged ☐ Pumping Rate						(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)	1645	1650	1655	1700				
pH (Temperature Corrected? ☐)	7.43	7.41	7.40	7.40				
Temperature ☑ °C ☐ °F	23.98	23.98	23.93	23.93				
Dissolved Oxygen mg/L	2.59	2.44	2.41	2.42				
☑ SC or ☐ EC µS/cm	0.413	0.412	0.412	0.413				
Turbidity ☑ NTU	7.0	2.2	2.3	2.2				
Color/Tint	N/A	N/A	N/A	N/A				
Odor	↓	↓	↓	↓				

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: 108 ☑ Grab ☐ Bailer ☑ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW-40D	PO	5/26/10	1710	6					

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) Bill Howell	Signature Bill Howell

Date Entered into Database _____ By _____ Page ___ of ___

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T Other: Delta Consultants	Facility Ashland - Brunswick	Site ID MW-4IT
	Project No. J0984-850-9	Date (m/d/y) 5/27/10

Site Description ☑ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 88 ☐ °C ☑ °F	Weather: P.C.
Well Locked? ☑ yes ☐ no	Damaged/Repairs Needed: N/A
☑ TOC ☐ MP Description:	
TOC/MP Stickup: 3 ☑ ft ☐ m above/below ground	Well Inside Diameter (ID): ☑ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data Measurement Units: ☑ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC: 52.10

☐ E-Tape, # ☐ Steel Tape ☑ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)	1335	1335	1340	1350	1400	1405	
Depth to Water	6.48	6.48	6.50	6.33	6.28	6.26	
Tape Correction	N/A						
Water Level (WL)	9.48	9.48	9.50	9.33	9.28	9.26	
Product Thickness	N/A						
Product Recovery ☐ gallons ☐ liters	N/A						

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: 48.00 ☑ Grab ☐ Bailer ☐ Pump Description: Monsoon w/ Regulator

Casing Volume: [52.10 (TD) - 9.50 (WL)] • [2 (Well ID)]^2 • [.0408 (Conversion Factor)] = 16.95 ☑ gal ☐ liters — Well Goes Dry While Purging ☐

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

☑ Cum. Vol. Purged ☐ Pumping Rate	.25	.50	1.25	2.00	2.50	(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)	1340	1345	1350	1355	1400			
pH (Temperature Corrected? ☑)	6.10	6.20	6.21	6.22	6.22			
Temperature ☑ °C ☐ °F	23.10	23.27	23.13	23.13	23.13			
Dissolved Oxygen mg/L	4.86	2.33	2.10	1.93	1.90			
☑ SC or ☐ EC µS/cm	36.3	40.1	42.2	43.4	43.4			
Turbidity ☑ NTU	-5.0	-5.0	-5.0	-5.0	-5.0			
Color/Tint	N/A	N/A	N/A	N/A	N/A			
Odor	↓	↓	↓	↓	↓			

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: 48.00 ☑ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW-4IT	PO	5/27/10	1405	1					

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) BW HOWELL	Signature BW Howell

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T Other: FSO Derek Rotley	**Facility** Ashland - Bunswid	**Site ID** MW-12 5	
	Project No. 50984-850-9	**Date (m/d/y)**	

Site Description ☒ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 88 ☐ °C ☒ °F	Weather: Sunny
Well Locked? ☒ yes ☐ no	Damaged/Repairs Needed: none
☐ TOC ☐ MP Description:	
TOC/MP Stickup: 3 ☒ ft ☐ m above/below ground	Well Inside Diameter (ID): ☒ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data Measurement Units: ☐ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC: 21

☐ E-Tape, # ____ ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)	1335		1340	1355			
Depth to Water	8.45		8.90	9.39			
Tape Correction							
Water Level (WL)	8.45		8.90	9.39			
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice: record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: ☐ Grab ☐ Bailer ☒ Pump Description: peristaltic

Casing Volume: [21 (TD) - 8.65 (WL)] • [2 (Well ID)]^2 • [____ (Conversion Factor)] = 2.04 ☒ gal ☐ liters

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☒ Cum. Vol. Purged ☐ Pumping Rate	0	2.0	4.0	6.0	8.0	(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)	1340	1345	1350	1355	1400		Horiba	U-22
pH (Temperature Corrected? ☐)	7.36	7.14	7.12	7.09	7.08		XD	
Temperature ☐ °C ☐ °F	22.73	22.92	22.90	22.82	22.80			
Dissolved Oxygen mg/L	3.40	2.65	2.58	2.52	2.46			
☐ SC or ☒ EC µS/cm	0.504	0.507	0.517	0.570	0.579			
Turbidity ☒ NTU	45.5	93.5	34.7	17.6	9.4			
Color/Tint	Cldy	Cldy	Cldy	Clear	Clear			
Odor								
ORP	-132	-131	-130	-134	-135			

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C): EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: ☐ Grab ☐ Bailer ☒ Pump Description: peristaltic

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW-12S	P0	6/3/10	1400	6					
VOCs + toxaphene + metals									

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: P0, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) Derek Ridley	Signature [signature]

users/forms/SampLog.doc/5/8/02 Date Entered into Database ______ By______

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T Other: Delta	Facility	Site ID MW44I
	Project No.	Date (m/d/y) 6/3/10

Site Description ☐ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 90 ☐ °C ☒ °F	Weather: Sunny
Well Locked? ☒ yes ☐ no	Damaged/Repairs Needed: No
☒ TOC ☐ MP Description:	
TOC/MP Stickup: 2 ☒ ft ☐ m above/below ground	Well Inside Diameter (ID): ☒ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data Measurement Units: ☒ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC: 55.58

☐ E-Tape, # _____ ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)				9:01			
Depth to Water	8.70						
Tape Correction							
Water Level (WL)							
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: ☐ Grab ☐ Bailer ☒ Pump Description: SS Mega Monsoon

Casing Volume: [_____(TD) - _____(WL)] • [_____(Well ID)]^2 • [_____(Conversion Factor)] = _____ ☐ gal ☐ liters
Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☐ Pumping Rate						(Final)	Meter Type	Remarks
	600	600	600	mL/min				
Time (hh:mm; 24-hr clock)	945	950	955				Horiba	
pH (Temperature Corrected? ☐)	6.56	6.55	6.53				U-27	
Temperature ☐°C ☐°F	24.38	24.48	24.48					
Dissolved Oxygen mg/L	2.35	2.31	2.29					
☒ SC or ☐ EC µS/cm	2.36	2.36	2.35					
Turbidity ☐ NTU	143.0	135	128					
Color/Tint								
~~Odor~~ ORP	-132	-123	~~-115~~ -121					

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: ☐ Grab ☐ Bailer ☒ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW-44I	PO	6/3/10	1000						

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print)	Signature

Date Entered into Database _____ By _____ Page ___ of ___

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T Other: Delta	**Facility** Ashland Bruneau	**Site ID** MW-44ID
	Project No 509849509	**Date** (m/d/y) 6/3/10

Site Description ☒ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 90 ☐ °C ☒ °F	Weather: Sunny
Well Locked? ☒ yes ☐ no	Damaged/Repairs Needed: no
☒ TOC ☐ MP Description:	
TOC/MP Stickup: 3 ☒ ft ☐ m above/below ground	Well Inside Diameter (ID): ☒ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data Measurement Units: ☒ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC: 100

☒ E-Tape, # _____ ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)							
Depth to Water	8.63			9.09			
Tape Correction							
Water Level (WL)							
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: ☐ Grab ☐ Bailer ☒ Pump Description: SS mega Monsoon

Casing Volume: [_____(TD) - _____(WL)] • [_____(Well ID)]^2 • [_____(Conversion Factor)] = _____ ☐ gal ☐ liters
Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☐ Pumping Rate	550 mL	550 mL	530			(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)	1115	1120	1125				Horiba U22	
pH (Temperature Corrected? ☐)	5.94	5.94	5.94					
Temperature ☐°C ☐°F	24.49	24.61	24.49					
Dissolved Oxygen mg/L	2.13	2.12	2.12					
☒ SC or ☐ EC µS/cm	13.5	13.6	13.7					
Turbidity ☐ NTU	80.5	806.3	799.3					
Color/Tint								
~~Odor~~ ORP	-56	-57	-57					

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW44ID	PO	6/3/10	1130	6					VOCs
									TOX
									Metals

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; DI, Duplicate Sample; SI, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 6 characters) is name of laboratory that will analyze the sample. Case ID (up to 6 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) Ryan Mes	Signature

Date Entered into Database _____ By _____ Page ___ of ___

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T Other: Delta	Facility Asland Brunswick	Site ID MW44D
	Project No.	Date (m/d/y) 6/3/10

Site Description ☐ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 90 ☐°C ☐°F	Weather: Sunny	
Well Locked? ☐ yes ☐ no	Damaged/Repairs Needed:	
☐ TOC ☐ MP Description:		
TOC/MP Stickup: ☐ ft ☐ m above/below ground	Well Inside Diameter (ID): ☐ 2-inch ☐ 4-inch Other:	
Site Remarks (nearby wells pumping, tide, stream stage, etc.)		

Water Level Data Measurement Units: ☐ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC: 130

☐ E-Tape, # _____ ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)	1340			8.72			
Depth to Water	8.47			8.98			
Tape Correction							
Water Level (WL)							
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Casing Volume: [_____(TD) - _____(WL)]•[_____(Well ID)]^2•[_____(Conversion Factor)] = _____ ☐ gal ☐ liters
Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☐ Pumping Rate	500mL/min					(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)	1345	1350	1355				Horiba	
pH (Temperature Corrected? ☐)	7.21	7.20	7.19				U-22	
Temperature ☐°C ☐°F	23.78	23.78	23.77					
Dissolved Oxygen mg/L	2.53	2.54	2.53					
☐ SC or ☐ EC µS/cm	1.88	1.82	1.80					
Turbidity ☐ NTU	210	200	199					
Color/Tint								
Odor								

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW44D	PO	6/3/10	1400						

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 6 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print)	Signature

Date Entered into Database _____ By _____ Page ___ of ___

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T Other:	Facility Ashland Brunswick	Site ID MW-45I
	Project No.	Date (m/d/y) 6/8/10

Site Description ☒ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 90 ☐ °C ☐ °F	Weather: Sunny
Well Locked? ☒ yes ☐ no	Damaged/Repairs Needed: No
☒ TOC ☐ MP Description:	
TOC/MP Stickup: ☒ ft ☐ m above/below ground	Well Inside Diameter (ID): ☐ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data Measurement Units: ☒ ft ☐ m Well or Borehole Total Depth (TD) from MP or (TOC)

☒ E-Tape, # ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)							
Depth to Water	8.12	8.12	~~8.08~~	~~8.08~~	~~8.08~~		
Tape Correction			7.70	7.81	7.99		
Water Level (WL)							
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with *minus* (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: ☐ Grab ☐ Bailer ☒ Pump Description:

Casing Volume: [____(TD) - ____(WL)] • [____(Well ID)]^2 • [____(Conversion Factor)] = ____ ☐ gal ☐ liters

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☒ Pumping Rate			(Final)				Meter Type	Remarks
	500mL	500	500					
Time (hh:mm; 24-hr clock)	1015	1020	1025				Horiba	
pH (Temperature Corrected? ☐)	6.36	6.36	6.36					
Temperature ☒ °C ☐ °F	24.43	24.43	24.38				U-22	
Dissolved Oxygen mg/L	2.74	2.72	2.70					
☒ SC or ☐ EC µS/cm	.302	.303	.301					
Turbidity ☐ NTU	79.4	80.7	75.6					
Color/Tint								
Odor	-30.9	-28.1	-27.6					

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW45I	PO	6/8/10	1030						TOX
									VOC's
									Metal

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print)	Signature

Date Entered Into Database _____ By _____

DELTA CONSULTANTS **GROUNDWATER SAMPLING RECORD**

Sampled By ☐ Facility Personnel ☐ ES&T	Facility Ashland Brunswick	Site ID MW 46I
Other: Delta	Project No.	Date (m/d/y) 6/8/10

Site Description ☒ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: ☒ °C ☐ °F Weather:

Well Locked? ☒ yes ☐ no Damaged/Repairs Needed:

☒ TOC ☐ MP Description:

TOC/MP Stickup: ☒ ft ☐ m above/below ground Well Inside Diameter (ID): ☒ 2-inch ☐ 4-inch Other:

Site Remarks (nearby wells pumping, tide, stream stage, etc.)

Water Level Data Measurement Units: ☒ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC: 55

☒ E-Tape, # ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)				7.63	7.68	7.72	
Depth to Water	7.28			[illegible]	[illegible]	7.26	
Tape Correction							
Water Level (WL)							
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: 50 ☐ Grab ☐ Bailer ☒ Pump Description: SS Mega Monsoon

Casing Volume: [____(TD) - ____(WL)] * [____(Well ID)]² * [____(Conversion Factor)] = ____ ☐ gal ☐ liters — Well Goes Dry While Purging ☐

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

						(Final)	Meter Type	Remarks
☐ Cum. Vol. Purged ☐ Pumping Rate	600	600	600	mL/min				
Time (hh:mm; 24-hr clock)	915	920	925				Horiba U-22	
pH (Temperature Corrected? ☐)	6.49	6.49	6.47					
Temperature ☐°C ☐°F	23.71	23.72	23.73					
Dissolved Oxygen mg/L	2.17	2.18	2.18					
☒ SC or ☐ EC mS/cm	5.56	5.71	5.79					
Turbidity ☒ NTU	500	475	462					
Color/Tint								
~~Odor~~ ORP	-336	-338	-338					

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: ☐ Grab ☐ Bailer ☒ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW 46I	P0	6/8/10	930	6					~~930~~
									TOX
									VOCS
									Metals

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: P0, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 6 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) Ryan McLain	Signature [signature]

users/forms/SampLog.doc/5/8/02 Date Entered into Database ____ By ____ Page __ of __

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T Other: Delta	Facility Ashland Bransavek	Site ID MW48D
	Project No.	Date (m/d/y) 6/2/10

Site Description ☒ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 90 ☐ °C ☒ °F	Weather: Sunny
Well Locked? ☒ yes ☐ no	Damaged/Repairs Needed:
☒ TOC ☐ MP Description:	
TOC/MP Stickup: 3 ☒ ft ☐ m above/below ground	Well Inside Diameter (ID): ☒ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data Measurement Units: ☒ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC: 91

☐ E-Tape, # ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)							
Depth to Water	5.96	5.96		6.35			
Tape Correction							
Water Level (WL)							
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters. List product type in "Remarks" column.

Field WQ Data Purge Depth: 87 ☐ Grab ☐ Bailer ☒ Pump Description: SS Mega Monsoon

Casing Volume: [____(TD) - ____(WL)] • [____(Well ID)]^2 • [____(Conversion Factor)] = ____ ☐ gal ☐ liters
Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☒ Pumping Rate						(Final)	Meter Type	Remarks
	700	700	700	mL/min				
Time (hh:mm; 24-hr clock)	1520	1525	1530				Horiba	
pH (Temperature Corrected? ☐)	~~5.47~~	~~6.54~~	6.60				U-22	
Temperature ☒ °C ☐ °F	23.86	23.32	23.09					
Dissolved Oxygen mg/L	2.15	2.16	2.17					
☒ SC or ☐ EC mS/cm	1.52	~~1.53~~	1.53					
Turbidity ☒ NTU	<10	<10	<10					
Color/Tint								
~~Odor~~ ORP	-183	-180	-179					

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW48D	PO	6/2/10	1530						VOCs

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print)	Signature

Date Entered into Database _____ By _____

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T Other: DELTA CONSULTANTS	**Facility** Ashland-Brunswick	**Site ID** MW-53S
	Project No. J0984-850-9	**Date (m/d/y)** 5/27/10

Site Description ☑ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 88 ☐ °C ☑ °F Weather: P.C

Well Locked? ☑ yes ☐ no Damaged/Repairs Needed: N/A

☑ TOC ☐ MP Description:

TOC/MP Stickup: 3 ☑ ft ☐ m (above)/below ground Well Inside Diameter (ID): ☑ 2-inch ☐ 4-inch Other:

Site Remarks (nearby wells pumping, tide, stream stage, etc.)

Water Level Data Measurement Units: ☑ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC: 24.30

☐ E-Tape, # ____ ☐ Steel Tape ☑ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)	1510	1510	1515	1525	1535	1540	
Depth to Water	3.48	3.48	3.47	3.31	3.15	3.10	
Tape Correction	N/A	→					
Water Level (WL)	6.48	6.48	6.47	6.31	6.15	6.10	
Product Thickness	N/A	→					
Product Recovery ☐ gallons ☐ liters	N/A	→					

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: 19.0 ☑ Grab ☐ Bailer ☐ Pump Description: Peristaltic

Casing Volume: [24.30 (TD) - 6.48 (WL)] • [2 (Well ID)]^2 • [.0408 (Conversion Factor)] = 2.90 ☑ gal ☐ liters — Well Goes Dry While Purging ☐

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

☑ Cum. Vol. Purged ☐ Pumping Rate						(Final)	Meter Type	Remarks
	.25	.75	1.25	2.0	2.75			
Time (hh:mm; 24-hr clock)	1515	1520	1525	1530	1535			
pH (Temperature Corrected? ☐)	6.70	6.68	6.69	6.68	6.69			
Temperature ☑ °C ☐ °F	25.13	24.88	24.71	24.71	24.70			
Dissolved Oxygen mg/L	5.30	4.58	4.81	4.91	4.81			
☑ SC or ☐ EC µS/cm	1.87	1.68	1.64	1.62	1.65			
Turbidity ☑ NTU	23.2	13.5	10.0	8.3	8.9			
Color/Tint	N/A	N/A	N/A	N/A	N/A			
Odor	↓	↓	↓	↓	↓			

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: 19.0 ☑ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW-53S	P0	5/27/10	1540	6					

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: P0, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) Bill Howell	Signature Bill Howell

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☒ Facility Personnel ☐ ES&T Other: Delta Consultants	**Facility** Ashland Brunswick	**Site ID** MW-54S
	Project No. 5088485 09	**Date** (m/d/y) 5/28/10

Site Description
☑ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 91 ☐ °C ☒ °F	Weather: Clear
Well Locked? ☒ yes ☐ no	Damaged/Repairs Needed: N/A
☑ TOC ☐ MP Description:	
TOC/MP Stickup: 3 ☑ ft ☐ m above/below ground	Well Inside Diameter (ID): ☑ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data
Measurement Units: ☑ ft ☐ m — Well or Borehole Total Depth (TD) from MP or TOC: 25.50

☐ E-Tape, # ☐ Steel Tape ☑ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)	1045	1045	1050	1105	1115	1120	
Depth to Water	3.69	3.69	3.69	3.48	3.41	3.39	
Tape Correction	N/A	→	→	→	→	→	
Water Level (WL)	6.69	6.69	6.69	6.48	6.41	6.39	
Product Thickness	N/A	→	→	→	→	→	
Product Recovery ☐ gallons ☐ liters	N/A	→	→	→	→	→	

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters. List product type in "Remarks" column.

Field WQ Data
Purge Depth: 20.00 ☑ Grab ☐ Bailer ☐ Pump Description: Peristaltic

Casing Volume: [25.50 (TD) - 6.69 (WL)] • [2 (Well ID)]² • [.0408 (Conversion Factor)] = 3.06 ☑ gal ☐ liters
Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☑ Cum. Vol. Purged ☐ Pumping Rate	0	.50	1.0	1.5	2.0	2.50 (Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)	1050	1055	1100	1105	1110	1115		
pH (Temperature Corrected? ☐)	6.14	6.10	6.08	6.06	6.04	6.04		
Temperature ☒ °C ☐ °F	23.48	23.33	23.24	23.24	23.24	23.24		
Dissolved Oxygen mg/L	4.97	4.33	4.17	3.76	3.61	3.59		
☒ SC or ☐ EC µS/cm	0.828	0.517	0.484	0.411	0.395	0.394		
Turbidity ☒ NTU	36.1	22.3	15.8	9.9	8.7	7.4		
Color/Tint	N/A	→	→	→	→	→		
Odor	N/A	→	→	→	→	→		

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data
Sample Depth: 20.00 ☑ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW-54S	PO	5/28/10	1120	6					

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; DF, Duplicate Sample; SF, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) B S THOMAS	Signature

Date Entered into Database _____ By _____ Page ___ of ___

DELTA CONSULTANTS **GROUNDWATER SAMPLING RECORD**

Sampled By ☐ Facility Personnel ☐ ES&T Other: Delta Consultants	Facility Ashland-Brunswick	Site ID MW-54 I
	Project No. J0984-850-9	Date (m/d/y) 5/28/10

Site Description ☑ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 92 ☐ °C ☑ °F Weather: Clear

Well Locked? ☑ yes ☐ no Damaged/Repairs Needed: N/A

☑ TOC ☐ MP Description:

TOC/MP Stickup: 3 ☑ ft ☐ m (above)/below ground Well Inside Diameter (ID): ☑ 2-Inch ☐ 4-Inch Other:

Site Remarks (nearby wells pumping, tide, stream stage, etc.)

Water Level Data Measurement Units: ☑ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC: 57.25

☐ E-Tape, # ☐ Steel Tape ☑ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)	1240	1240	1245	1265	1305	1310	
Depth to Water	3.85	3.85	3.85	3.72	3.52	3.50	
Tape Correction	N/A →						
Water Level (WL)	6.85	6.85	6.85	6.72	6.52	6.50	
Product Thickness	N/A →						
Product Recovery ☐ gallons ☐ liters	N/A →						

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: 50.00 ☑ Grab ☐ Bailer ☐ Pump Description: Monsoon W/Regulator

Casing Volume: [57.25 (TD) - 6.85 (WL)]•[2 (Well ID)]^2•[.0408 (Conversion Factor)] = 8.22 ☑ gal ☐ liters

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☑ Cum. Vol. Purged ☐ Pumping Rate	0	.75	1.50	2.75	3.75	(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)	1245	1250	1255	1300	1305			
pH (Temperature Corrected? ☐)	7.11	7.18	7.21	7.20	7.20			
Temperature ☑ °C ☐ °F	23.82	23.83	23.82	23.82	23.83			
Dissolved Oxygen mg/L	3.31	2.43	2.15	2.23	2.18			
☑ SC or ☐ EC µS/cm	1.33	1.56	2.02	1.98	2.01			
Turbidity ☑ NTU	12.2	11.3	8.9	9.2	9.6			
Color/Tint	N/A →							
Odor	N/A →							

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: 50.00 ☑ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW-54 I	P0	5/28/10	1315	6					

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: P0, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) BW Howell	Signature BW Howell

users/forms/SampLog.doc/6/8/02 Date Entered into Database ________ By ______ Page ___ of ___

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T Other: Delta Consultants	**Facility** Ashland - Brunswick	**Site ID** MW-54D
	Project No. 3098.4-850-4	**Date (m/d/y)** 5/28/10

Site Description ☑ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 92 ☐ °C ☑ °F	Weather: Clear
Well Locked? ☑ yes ☐ no	Damaged/Repairs Needed: N/A
☑ TOC ☐ MP Description:	
TOC/MP Stickup: 3 ☑ ft ☐ m (above/below ground)	Well Inside Diameter (ID): ☑ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data Measurement Units: ☑ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC: 86.75

☐ E-Tape, # ☐ Steel Tape ☑ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)	1045	1045	1050	1100	1110	1115	
Depth to Water	4.15	4.15	4.08	4.06	3.98	3.99	
Tape Correction	N/A						
Water Level (WL)	7.15	7.15	7.15	7.06	6.98	6.99	
Product Thickness	N/A						
Product Recovery ☐ gallons ☐ liters	N/A						

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: 80.00 ☑ Grab ☐ Bailer ☐ Pump Description: Monsoon w/Regulator

Casing Volume: [86.15 (TD) - 7.15 (WL)] • [2 (Well ID)]² • [.0408 (Conversion Factor)] = 12.99 ☑ gal ☐ liters

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☑ Cum. Vol. Purged ☐ Pumping Rate						(Final)	Meter Type	Remarks
	0	.75	1.50	2.25	3.0			
Time (hh:mm; 24-hr clock)	1050	1055	1100	1105	1110			
pH (Temperature Corrected? ☐)	8.61	8.46	8.37	8.40	8.40			
Temperature ☑ °C ☐ °F	24.18	24.42	24.48	24.48	24.48			
Dissolved Oxygen mg/L	1.30	0.48	0.35	0.38	0.42			
☑ SC or ☐ EC µS/cm	99.9	99.9	99.9	99.9	99.9			
Turbidity ☑ NTU	32.8	20.7	10.2	9.8	8.4			
Color/Tint	N/R							
Odor	N/A							

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: 80.00 ☑ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW-54D	PO	5/28/10	1115	6					

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) BW HOWELL	Signature BW Howell

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T Other: Delta | **Facility** Ashland Bardstick | **Site ID** MW-44D | **Project No.** | **Date** (m/d/y) 7-29-10

Site Description ☐ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 95 ☐ °C ☑ °F Weather: Clear

Well Locked? ☑ yes ☐ no Damaged/Repairs Needed: none

☐ TOC ☐ MP Description: Stickup

TOC/MP Stickup: 3 ☐ ft ☐ m above/below ground Well Inside Diameter (ID): ☑ 2-inch ☐ 4-inch Other:

Site Remarks (nearby wells pumping, tide, stream stage, etc.)

Water Level Data

Measurement Units: ☐ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC:

☐ E-Tape, # ____ ☐ Steel Tape ☐ Other

	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)	Initial						
Depth to Water	8.99						DTB =
Tape Correction	—						>100'
Water Level (WL)	8.99						(100' Tape)
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data

Purge Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Casing Volume: [_____(TD) - _____(WL)] • [_____(Well ID)]^2 • [_____(Conversion Factor)] = _____ ☐ gal ☐ liters

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☐ Pumping Rate	250mL/min					(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)	Initial	1316	1321	1326	1331	1336	Horiba U-22	
pH (Temperature Corrected? ☐)	6.73	6.78	6.90	6.91	6.92	6.93		
Temperature ☑ °C ☐ °F	24.55	24.42	24.56	24.63	24.44	24.49		
Dissolved Oxygen mg/L	6.45	5.93	5.66	2.57 5.48	5.35	5.28		
☑ SC or ☐ EC µS/cm	2.65	2.55	2.58	2.56	2.61	2.62		
Turbidity ☑ NTU	62.4	28.0	12.6	8.9	8.0	8.3		
Color/Tint water level	gray 10.11	10.17	10.17	8.9 10.17	10.17	10.17		
Odor TDS 911	1.68	1.62	1.65	1.65	1.67	1.68		
ORP mV	-201	-210	-210	-209	-207	-207		

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed **before** sampling, **in gallons or liters.** Pumping Rate **is** gpm or Lpm, **depending on box checked in** casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C): EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data

Sample Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW-44D	PO	7/29/10	1336	5	NO	T.A.	—	—	

Sample ID may be up to 15 characters. **Sample Result Code, Date, and Time must be entered.** Result Codes: PO, Primary Sample; D#, Duplicate Sample; IS#, Split Sample (sent to second lab): BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). **Lab ID (up to 5 characters)** is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) Wes Barfield / C.W. Signature W. Barfield

Date Entered into Database _____ By _____

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T Other: Delta	Facility Ashland Brunswick	Site ID MW-10D
	Project No.	Date (m/d/y) 7-29-10

Site Description ☑ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 95 ☐ °C ☑ °F	Weather: Clear	
Well Locked? ☑ yes ☐ no	Damaged/Repairs Needed: None	
☑ TOC ☐ MP Description: Stickup		
TOC/MP Stickup: 3 ☑ ft ☐ m above/below ground	Well Inside Diameter (ID): ☑ 2-inch ☐ 4-inch Other:	
Site Remarks (nearby wells pumping, tide, stream stage, etc.)		

Water Level Data Measurement Units: ☑ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC:

☐ E-Tape, # _____ ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)	~~Initial~~ 1440						TD = 95 ft
Depth to Water	7.26						
Tape Correction	—						
Water Level (WL)	7.26						
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice, record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping, F - flowing (artesian well), R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: ☐ Grab ☐ Bailer ☑ Pump Description: Mega Monsoon

Casing Volume: [_____(TD) - _____(WL)]•[_____(Well ID)]^2•[_____(Conversion Factor)] = _____ ☐ gal ☐ liters
Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches
Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☐ Pumping Rate	~~250~~ 400 mL/min	→	→	400 mL/min	→	500 mL/min (Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)	Initial 1456	1459	1502	1505	1508			
pH (Temperature Corrected? ☐)	5.89	5.77	5.75	5.80	5.80	5.93		
Temperature ☑ °C ☐ °F	27.78	26.41	26.07	25.33	25.35	24.86		
Dissolved Oxygen mg/L	5.44	4.78	5.04	5.64	5.62	5.85		
☑ SC or ☐ EC ~~µS~~/cm	16.3	18.2	19.0	21.1	21.2	20.9		
Turbidity ☑ NTU	98.6	~~18.2~~ 83.6	167.0	34.3	26.8	34.4		
~~Color~~ ~~Tint~~ ~~Water Level~~	7.31	7.31	7.34	7.40	7.40	7.86		
~~Odor~~ TDS g/L	11.4	11.3	11.7	13.1	13.1	13.0		
ORP mV	-59	-75	-98	-93	-101	-104	↓	

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon.

Sample Data Sample Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW-10	PO	7-29-10		5	No	TA	—	—	

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) W. Barfield /CW	Signature

Date Entered into Database _____ By _____

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T Other: Delta	**Facility** Ashland Brunswick	**Site ID** MW-10D
	Project No.	**Date** (m/d/y) 7-29-10

Site Description ☑ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 95 ☐ °C ☑ °F	Weather: Clear
Well Locked? ☑ yes ☐ no	Damaged/Repairs Needed: none
☐ TOC ☐ MP Description:	stickup
TOC/MP Stickup: 3 ☑ ft ☐ m above/below ground	Well Inside Diameter (ID): ☑ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data Measurement Units: ☐ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC:

☐ E-Tape, # _____ ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)							
Depth to Water	7.26						
Tape Correction	—						
Water Level (WL)	7.26						
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed, P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Casing Volume: [_____(TD) - _____(WL)]•[_____(Well ID)]^2•[_____(Conversion Factor)] = _____ ☐ gal ☐ liters
Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☐ Pumping Rate	300 mL/min	—	—	—	—	(Final) 7	Meter Type	Remarks
Time (hh:mm; 24-hr clock)	1511	1514 1556	1517 1553	1570 1550	1559	1602	U-22	cont.
pH (Temperature Corrected? ☐)	5.95	5.44	5.44	5.44	5.42	5.42		from
Temperature ☑°C ☐°F	25.92	25.46	25.33	25.24	25.12	25.10		p.1 of 1
Dissolved Oxygen mg/L	6.66	9.18	11.20	11.70	12.00	12.09		
☐ SC or ☐ EC µS/cm	18.9	18.2	18.2	14.9	18.8	18.6		U-22
Turbidity ☑ NTU	76.5	77.8	127.0	174.0	295.0	322.0		Turbidity
Color/Tint Water Level	7.38	7.40	7.40	7.40	7.40	7.40		meter suspected
Odor TDS g/L	12.6	11.2	11.4	11.9	11.6	11.5		to be fouled
ORP mV	-72	-57	-73	-74	-80	-80		Attempted to trouble shoot. No improvement

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm) µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW-10	PO	7-29-10	1602	5	N	TA			

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) W. Barfield / CW	Signature W. Barfield

Date Entered into Database _____ By _____

GROUNDWATER SAMPLING LOG

SITE NAME:	Former Hercules Facility	SITE LOCATION:	Brunswick, GA
WELL ID:	MW-505	DATE:	5/16/12

PURGING DATA

WELL DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	10 feet to 20 feet	4.86	PP

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= Add liters + (.0217 liters/foot X 25 feet) + 0.50 liters = 1.1 liters

TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (liters)	PURGE RATE (L/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISS. OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
847	1.1	1.4	0.1	4.91	7.30	23.14	1143	2.18	52.4	-228.6
~~850~~	.3	1.7	.1	4.92	7.30	23.15	1143	2.18	50.6	227.0
853	.3	2.0	.1	4.93	7.30	23.15	1143	2.13	48.8	228.1
856	.3	2.3	.1	4.93	7.30	23.15	1140	2.15	47.0	228.1

TUBING INSIDE DIA. CAPACITY (Liters/Ft.): 1/8" = 0.0024; 3/16" = 0.0054; 1/4" = 0.0097; 5/16" = 0.0151; 3/8" = 0.0217; 1/2" = 0.0386; 5/8" = 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING TIME:
Ryan McLain and Marty Mullis/ Antea Group		900

FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
# CONTAINERS	VOLUME	PRESERVATIVE USED	
3	40	HCL	VOC's
			~~SVOC's~~
			~~TOX~~
1	250	HNO3	Metals

REMARKS:

NOTES: 1. STABILIZATION CRITERIA FOR THREE CONSECUTIVE WATER QUALITY READINGS

Turbidity:	<10 NTU
Temp.:	<0.5 Degrees C
pH:	<0.1 SU
Specific Conductance:	10%
Drawdown:	<0.5 ft from Initial
Dissolved Oxygen:	<0.5 mg/L

GROUNDWATER SAMPLING LOG

SITE NAME:	Former Hercules Facility	SITE LOCATION:	Brunswick, GA
WELL ID:	MW50I	DATE:	5/16/12

PURGING DATA

WELL DIAMETER (inches):	2	WELL SCREEN INTERVAL DEPTH:	36 feet to 46 feet	STATIC DEPTH TO WATER (feet):	5.79	PURGE PUMP TYPE OR BAILER:	SS monsoon

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= 0.046 liters + (0.0217 liters/foot X 50 feet) + 0.5 liters = 1.6 liters

TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (liters)	PURGE RATE (L/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISS. OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
931	1.6	1.6	0.1	5.72	7.32	23.51	2674	0.06	310	-220.2
934	0.3	1.9	0.1	5.72	7.32	23.51	2674	0.07	168	-214.8
937	0.3	2.2	0.1	5.70	7.31	23.51	2674	0.07	160	-214.1
940	0.3	2.5	0.1	5.70	7.31	23.51	2674	0.07	160	-214.0

TUBING INSIDE DIA. CAPACITY (Liters/Ft.): 1/8" = 0.0024; 3/16" = 0.0054; 1/4" = 0.0097; 5/16" = 0.0151; 3/8" = 0.0217; 1/2" = 0.0386; 5/8" = 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING TIME:
Ryan McLain, Marty Mullis/ Antea Group		945

FIELD DECONTAMINATION: (Y) N	FIELD FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
# CONTAINERS	VOLUME	PRESERVATIVE USED	
3	40ml	None	VOC's
1	250	Nitric acid	Metals
~~2~~	1 L	~~None~~	~~TOX~~

REMARKS:

NOTES: 1. STABILIZATION CRITERIA FOR THREE CONSECUTIVE WATER QUALITY READINGS

Turbidity:	<10 NTU
Temp.:	<0.5 Degrees C
pH:	<0.1 SU
Specific Conductance:	10%
Drawdown:	<0.5 ft from Initial
Dissolved Oxygen:	<0.5 mg/L

GROUNDWATER SAMPLING LOG

SITE NAME:	Former Hercules Facility	SITE LOCATION:	Brunswick, GA
WELL ID:	MW 50 D	DATE:	5/16/12

PURGING DATA

WELL DIAMETER (inches):	2	WELL SCREEN INTERVAL DEPTH:	78 feet to 88 feet	STATIC DEPTH TO WATER (feet):	5.76	PURGE PUMP TYPE OR BAILER:	SS monsoon

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= 0.046 liters + (0.0217 liters/foot X 90 feet) + 0.5 liters = 2.5 liters

TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (liters)	PURGE RATE (L/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISS. OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
911	2.5	2.5	0.1	5.48	8.26	23.22	578	0.93	52.4	-167.1
914	0.3	2.8	0.1	5.50	7.72	23.22	578	0.93	48.4	-185.1
917	0.3	3.1	0.1	5.50	7.72	23.22	578	0.93	48.0	-185.1
920	0.3	3.4	0.1	5.50	7.72	23.22	578	0.93	48.1	-185.1

TUBING INSIDE DIA. CAPACITY (Liters/Ft.): **1/8"** = 0.0024; **3/16"** = 0.0054; **1/4"** = 0.0097; **5/16"** = 0.0151; **3/8"** = 0.0217; **1/2"** = 0.0386; **5/8"** = 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING TIME:
Ryan McLain, Marty Mullis/ Antea Group		925

FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
# CONTAINERS	VOLUME	PRESERVATIVE USED	
3	40ml	None	VOC's
1	250	Nitric acid	Metals
~~2~~	~~1 L~~	~~None~~	~~TOX~~ RM

REMARKS:

NOTES: 1. STABILIZATION CRITERIA FOR THREE CONSECUTIVE WATER QUALITY READINGS

Turbidity:	<10 NTU
Temp.:	<0.5 Degrees C
pH:	<0.1 SU
Specific Conductance:	10%
Drawdown:	<0.5 ft from Initial
Dissolved Oxygen:	<0.5 mg/L

GROUNDWATER SAMPLING LOG

SITE NAME:	Former Hercules Facility	SITE LOCATION:	Brunswick, GA
WELL ID:	MW515	DATE:	5/16/12

PURGING DATA

WELL DIAMETER (inches):	2	WELL SCREEN INTERVAL DEPTH:	10 feet to 20 feet	STATIC DEPTH TO WATER (feet):	3.79	PURGE PUMP TYPE OR BAILER:	PP

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= NA liters + (0.0217 liters/foot X 25 feet) + 0.5 liters = 1 liters

TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (liters)	PURGE RATE (L/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISS. OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
1041	1	1	0.1	4.64	5.91	24.31	5555	0.02	47.5	-250.9
1044	0.3	1.3	0.1	4.65	5.92	24.32	5554	0.02	44.2	-256.1
1047	0.3	1.6	0.1	4.65	5.92	24.32	5554	0.01	44.1	-256.2
1050	0.3	1.9	0.1	4.65	5.92	24.32	5554	0.01	45.6	-256.3

TUBING INSIDE DIA. CAPACITY (Liters/Ft.): **1/8"** = 0.0024; **3/16"** = 0.0054; **1/4"** = 0.0097; **5/16"** = 0.0151; **3/8"** = 0.0217; **1/2"** = 0.0386; **5/8"** = 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING TIME:
Ryan McLain, Marty Mullis/ Antea Group		1055

FIELD DECONTAMINATION: Y (N)

FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm
Filtration Equipment Type: ____

DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
# CONTAINERS	VOLUME	PRESERVATIVE USED	
3	40ml	None	VOC's
1	250	Nitric acid	Metals
~~2~~	~~1 L~~	~~None~~	~~TOX~~ RM

REMARKS:

NOTES: 1. STABILIZATION CRITERIA FOR THREE CONSECUTIVE WATER QUALITY READINGS

Turbidity:	<10 NTU
Temp.:	<0.5 Degrees C
pH:	<0.1 SU
Specific Conductance:	10%
Drawdown:	<0.5 ft from Initial
Dissolved Oxygen:	<0.5 mg/L

GROUNDWATER SAMPLING LOG

SITE NAME:	Former Hercules Facility	SITE LOCATION:	Brunswick, GA
WELL ID:	MW-51 I	DATE:	5/16/12

PURGING DATA

WELL DIAMETER (inches):	2	WELL SCREEN INTERVAL DEPTH:	40 feet to 50 feet	STATIC DEPTH TO WATER (feet):	4.54	PURGE PUMP TYPE OR BAILER:	SS monsoon

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.016 liters + (0.0217 liters/foot X 50 feet) + 0.5 liters = 1.6 liters

TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (liters)	PURGE RATE (L/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISS. OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
1036	1.6	1.6	0.1	3.39	7.01	23.54	1048	1.37	221	-121.9
1039	0.3	1.9	0.1	3.37	7.00	23.55	1048	1.37	219	-121.0
1042	0.3	2.1	0.1	3.37	6.99	23.55	1048	1.35	217	-122.2
1045	0.3	2.4	0.1	3.37	6.99	23.56	1048	1.35	216	-122.3

TUBING INSIDE DIA. CAPACITY (Liters/Ft.): 1/8" = 0.0024; 3/16" = 0.0054; 1/4" = 0.0097; 5/16" = 0.0151; 3/8" = 0.0217; 1/2" = 0.0386; 5/8" = 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING TIME:
Ryan McLain, Marty Mullis/ Antea Group		1050

FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
# CONTAINERS	VOLUME	PRESERVATIVE USED	
3	40ml	None	VOC's
1	250	Nitric acid	Metals
~~2~~	~~1 L~~	~~None~~	~~TOX~~ RM

REMARKS:

NOTES: 1. STABILIZATION CRITERIA FOR THREE CONSECUTIVE WATER QUALITY READINGS

Turbidity:	<10 NTU
Temp.:	<0.5 Degrees C
pH:	<0.1 SU
Specific Conductance:	10%
Drawdown:	<0.5 ft from Initial
Dissolved Oxygen:	<0.5 mg/L

GROUNDWATER SAMPLING LOG

SITE NAME:	Former Hercules Facility	SITE LOCATION:	Brunswick, GA
WELL ID:	MW51D	DATE:	5/16/12

PURGING DATA

WELL DIAMETER (inches):	2	WELL SCREEN INTERVAL DEPTH:	76 feet to 86 feet	STATIC DEPTH TO WATER (feet):	4.43	PURGE PUMP TYPE OR BAILER:	SS monsoon

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.046 liters + (0.0217 liters/foot X 90 feet) + 0.5 liters = 2.5 liters

TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (liters)	PURGE RATE (L/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISS. OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
1031	2.5	2.5	0.1	5.01	7.42	23.34	1221	0.67	20.1	-175.6
1034	0.3	2.8	0.1	5.00	7.40	22.31	1532	0.66	15.2	-175.5
1037	0.3	3.1	0.1	5.00	7.40	22.63	1509	0.52	12.3	-175.6
1030	0.3	3.4	0.1	4.99	7.40	22.61	1469	0.48	9.66	-174.8

TUBING INSIDE DIA. CAPACITY (Liters/Ft.): **1/8"** = 0.0024; **3/16"** = 0.0054; **1/4"** = 0.0097; **5/16"** = 0.0151; **3/8"** = 0.0217; **1/2"** = 0.0386; **5/8"** = 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING TIME:
Ryan McLain, Marty Mullis/ Antea Group		1035

FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
# CONTAINERS	VOLUME	PRESERVATIVE USED	
3	40ml	None	VOC's
1	250	Nitric acid	Metals
2	1 L	None	TOX

REMARKS:

NOTES: 1. STABILIZATION CRITERIA FOR THREE CONSECUTIVE WATER QUALITY READINGS

Turbidity:	<10 NTU
Temp.:	<0.5 Degrees C
pH:	<0.1 SU
Specific Conductance:	10%
Drawdown:	<0.5 ft from Initial
Dissolved Oxygen:	<0.5 mg/L

GROUNDWATER SAMPLING LOG

SITE NAME:	Former Hercules Facility	SITE LOCATION:	Brunswick, GA
WELL ID:	MW 42I	DATE:	5/16/12

PURGING DATA

WELL DIAMETER (inches):	2	WELL SCREEN INTERVAL DEPTH:	40 feet to 50 feet	STATIC DEPTH TO WATER (feet):	6.91	PURGE PUMP TYPE OR BAILER:	SS monsoon

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= .046 liters + (0.0217 liters/foot X 50 feet) + 0.5 liters = 1.6 liters

TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (liters)	PURGE RATE (L/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISS. OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
1536	1.6	1.6	0.1	6.48	5.87	24.33	482	1.29	2.66	-185.7
1539	0.3	1.9	0.1	6.49	5.87	24.34	482	1.30	3.10	-188.7
1542	0.3	2.2	0.1	6.49	5.88	24.35	482	1.30	3.22	-188.7
1545	0.3	2.5	0.1	6.49	5.88	24.35	482	1.30	2.88	-189.8

TUBING INSIDE DIA. CAPACITY (Liters/Ft.): **1/8"** = 0.0024; **3/16"** = 0.0054; **1/4"** = 0.0097; **5/16"** = 0.0151; **3/8"** = 0.0217; **1/2"** = 0.0386; **5/8"** = 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING TIME:
Ryan McLain, Marty Mullis/ Antea Group		1550

FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
# CONTAINERS	VOLUME	PRESERVATIVE USED	
3	40ml	None	VOC's
1	250	Nitric acid	Metals
2	1 L	None	TOX

REMARKS:

NOTES: 1. STABILIZATION CRITERIA FOR THREE CONSECUTIVE WATER QUALITY READINGS

Turbidity:	<10 NTU
Temp.:	<0.5 Degrees C
pH:	<0.1 SU
Specific Conductance:	10%
Drawdown:	<0.5 ft from Initial
Dissolved Oxygen:	<0.5 mg/L

GROUNDWATER SAMPLING LOG

SITE NAME: Former Hercules Facility	SITE LOCATION: Brunswick, GA
WELL ID: MW42D	DATE: 5/16/12

PURGING DATA

WELL DIAMETER (inches): 2	WELL SCREEN INTERVAL DEPTH: 88 feet to 98 feet	STATIC DEPTH TO WATER (feet): 7.58	PURGE PUMP TYPE OR BAILER: SSmonsoon

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 1046 liters + (0.0217 liters/foot X 100 feet) + 0.5 liters = 2.7 liters

TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (liters)	PURGE RATE (L/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISS. OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
1516	2.7	2.7	0.1	7.32	7.47	23.51	2319	0.38	3.14	-208.1
1519	0.3	3.0	0.1	7.34	7.46	23.30	2399	0.33	5.66	-212.2
1522	0.3	3.3	0.1	7.34	7.56	23.39	2400	0.32	2.74	-212.8
1525	0.3	3.6	0.1	7.34	7.56	23.39	2400	0.32	3.01	-212.8

TUBING INSIDE DIA. CAPACITY (Liters/Ft.): 1/8" = 0.0024; 3/16" = 0.0054; 1/4" = 0.0097; 5/16" = 0.0151; 3/8" = 0.0217; 1/2" = 0.0386; 5/8" = 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Ryan McLain, Marty Mullis/ Antea Group	SAMPLER(S) SIGNATURES:	SAMPLING TIME: 1530
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
# CONTAINERS	VOLUME	PRESERVATIVE USED	
3	40ml	None	VOC's
1	250	Nitric acid	Metals
2	1 L	None	TOX

REMARKS:

NOTES: 1. STABILIZATION CRITERIA FOR THREE CONSECUTIVE WATER QUALITY READINGS

Turbidity:	<10 NTU
Temp.:	<0.5 Degrees C
pH:	<0.1 SU
Specific Conductance:	10%
Drawdown:	<0.5 ft from Initial
Dissolved Oxygen:	<0.5 mg/L

GROUNDWATER SAMPLING LOG

SITE NAME:	Former Hercules Facility	SITE LOCATION:	Brunswick, GA
WELL ID:	MW43S	DATE:	5/16/12

PURGING DATA

WELL DIAMETER (inches):	2	WELL SCREEN INTERVAL DEPTH:	10 feet to 20 feet	STATIC DEPTH TO WATER (feet):	5.04	PURGE PUMP TYPE OR BAILER:	PP

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= NA liters + (0.0217 liters/foot X 25 feet) + 0.5 liters = 1 liters

TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (liters)	PURGE RATE (L/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISS. OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
1316	1	1	0.1	3.51	6.67	25.29	1491	1.75	6.06	-234.2
1319	0.3	1.3	0.1	3.51	6.64	24.66	1491	1.74	3.14	-248.2
1322	0.3	1.6	0.1	3.57	6.64	24.66	1494	1.71	3.10	-252.2
1325	0.3	1.9	0.1	3.57	6.64	24.63	1494	1.70	3.08	-252.6

TUBING INSIDE DIA. CAPACITY (Liters/Ft.): 1/8" = 0.0024; 3/16" = 0.0054; 1/4" = 0.0097; 5/16" = 0.0151; 3/8" = 0.0217; 1/2" = 0.0386; 5/8" = 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING TIME:
Ryan McLain, Marty Mullis/ Antea Group		1330

FIELD DECONTAMINATION: Y (N)	FIELD FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
# CONTAINERS	VOLUME	PRESERVATIVE USED	
3	40ml	None	VOC's
1	250	Nitric acid	Metals
2	1 L	None	TOX

REMARKS:

NOTES: 1. STABILIZATION CRITERIA FOR THREE CONSECUTIVE WATER QUALITY READINGS

Turbidity:	<10 NTU
Temp.:	<0.5 Degrees C
pH:	<0.1 SU
Specific Conductance:	10%
Drawdown:	<0.5 ft from Initial
Dissolved Oxygen:	<0.5 mg/L

GROUNDWATER SAMPLING LOG

SITE NAME:	Former Hercules Facility	SITE LOCATION:	Brunswick, GA
WELL ID:	MW43I	DATE:	5/16/12

PURGING DATA

WELL DIAMETER (inches):	2	WELL SCREEN INTERVAL DEPTH:	40 feet to 50 feet	STATIC DEPTH TO WATER (feet):	6.82	PURGE PUMP TYPE OR BAILER:	SSmonsoon

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= 1046 liters + (0.0217 liters/foot X 50 feet) + 0.5 liters = 1.6 liters

TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (liters)	PURGE RATE (L/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISS. OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
1306	1.6	1.6	0.1	6.70	7.67	25.38	2249	1.04	3.55	-216.8
1309	0.3	1.9	0.1	6.71	7.67	25.39	2249	1.04	4.11	-209.4
1312	0.3	2.2	0.1	6.71	7.67	25.39	2249	1.04	4.07	-200.0
1315	0.3	2.5	0.1	6.71	7.67	25.39	2249	1.04	4.02	-188.6

TUBING INSIDE DIA. CAPACITY (Liters/Ft.): 1/8" = 0.0024; 3/16" = 0.0054; 1/4" = 0.0097; 5/16" = 0.0151; 3/8" = 0.0217; 1/2" = 0.0386; 5/8" = 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING TIME:
Ryan McLain, Marty Mullis/ Antea Group		1320

FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: (Y) N Dup-1

SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
# CONTAINERS	VOLUME	PRESERVATIVE USED	
3	40ml	None	VOC's
1	250	Nitric acid	Metals
2	1 L	None	TOX

REMARKS:

NOTES: 1. STABILIZATION CRITERIA FOR THREE CONSECUTIVE WATER QUALITY READINGS

Turbidity:	<10 NTU
Temp.:	<0.5 Degrees C
pH:	<0.1 SU
Specific Conductance:	10%
Drawdown:	<0.5 ft from Initial
Dissolved Oxygen:	<0.5 mg/L

GROUNDWATER SAMPLING LOG

SITE NAME:	Former Hercules Facility	SITE LOCATION:	Brunswick, GA
WELL ID:	MW43D	DATE:	5/16/12

PURGING DATA

WELL DIAMETER (inches):	2	WELL SCREEN INTERVAL DEPTH:	89 feet to 99 feet	STATIC DEPTH TO WATER (feet):	6.89	PURGE PUMP TYPE OR BAILER:	SS monsoon

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= 1046 liters + (0.0217 liters/foot X 100 feet) + 0.5 liters = 2.7 liters

TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (liters)	PURGE RATE (L/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISS. OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
1246	2.7	2.7	0.1	6.51	7.62	24.87	2195	1.40	5.32	-224.0
1249	0.3	3.0	0.1	6.52	7.65	25.04	2195	1.38	5.66	-208.1
1252	0.3	3.3	0.1	6.52	7.65	25.04	2200	1.35	4.72	-204.2
1255	0.3	3.6	0.1	6.52	7.65	25.04	2214	1.39	4.58	-204.1

TUBING INSIDE DIA. CAPACITY (Liters/Ft.): 1/8" = 0.0024; 3/16" = 0.0054; 1/4" = 0.0097; 5/16" = 0.0151; 3/8" = 0.0217; 1/2" = 0.0386; 5/8" = 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING TIME:
Ryan McLain, Marty Mullis/ Antea Group		1300

FIELD DECONTAMINATION: (Y) N	FIELD FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
# CONTAINERS	VOLUME	PRESERVATIVE USED	
3	40ml	None	VOC's
1	250	Nitric acid	Metals
2	1 L	None	TOX

REMARKS:

NOTES: 1. STABILIZATION CRITERIA FOR THREE CONSECUTIVE WATER QUALITY READINGS

Turbidity:	<10 NTU
Temp.:	<0.5 Degrees C
pH:	<0.1 SU
Specific Conductance:	10%
Drawdown:	<0.5 ft from Initial
Dissolved Oxygen:	<0.5 mg/L

GROUNDWATER SAMPLING LOG

SITE NAME:	Former Hercules Facility	SITE LOCATION:	Brunswick, GA
WELL ID:	MW 49S	DATE:	5/16/12

PURGING DATA

WELL DIAMETER (inches):	2	WELL SCREEN INTERVAL DEPTH:	10 feet to 20 feet	STATIC DEPTH TO WATER (feet):	3.66	PURGE PUMP TYPE OR BAILER:	PP

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= Na liters + (0.0217 liters/foot X 25 feet) + 0.5 liters = 1.0 liters

TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (liters)	PURGE RATE (L/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISS. OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
1436	1.0	1.0	0.1	4.56	7.20	23.85	8	6.19	5.70	-132.6
1439	0.3	1.3	0.1	4.55	7.20	23.85	8	6.19	5.79	-132.1
1442	0.3	1.6	0.1	4.56	7.20	23.85	8	6.19	5.08	-132.9
1445	0.3	1.9	0.1	4.56	7.20	23.85	8	6.19	5.12	-132.8

TUBING INSIDE DIA. CAPACITY (Liters/Ft.): 1/8" = 0.0024; 3/16" = 0.0054; 1/4" = 0.0097; 5/16" = 0.0151; 3/8" = 0.0217; 1/2" = 0.0386; 5/8" = 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING TIME:
Ryan McLain, Marty Mullis/ Antea Group		1450

FIELD DECONTAMINATION: Y (N)

FIELD FILTERED: Y (N) FILTER SIZE: ____ µm
Filtration Equipment Type: ____

DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
# CONTAINERS	VOLUME	PRESERVATIVE USED	
3	40ml	None	VOC's
~~1~~	~~250~~	Nitric acid	~~Metals~~ RM
~~2~~	~~1 L~~	None	~~TOX~~

REMARKS:

NOTES: 1. STABILIZATION CRITERIA FOR THREE CONSECUTIVE WATER QUALITY READINGS

Turbidity:	<10 NTU
Temp.:	<0.5 Degrees C
pH:	<0.1 SU
Specific Conductance:	10%
Drawdown:	<0.5 ft from Initial
Dissolved Oxygen:	<0.5 mg/L

GROUNDWATER SAMPLING LOG

SITE NAME:	Former Hercules Facility	SITE LOCATION:	Brunswick, GA
WELL ID:	MW 49 I	DATE:	5/16/12

PURGING DATA

WELL DIAMETER (inches):	2	WELL SCREEN INTERVAL DEPTH:	57 feet to 67 feet	STATIC DEPTH TO WATER (feet):	5.86	PURGE PUMP TYPE OR BAILER:	SS monsoon

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= 1046 liters + (0.0217 liters/foot X 70 feet) + 0.5 liters = 2.1 liters

TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (liters)	PURGE RATE (L/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISS. OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
1426	2.1	2.1	0.1	5.47	5.64	24.67	954	0.23	1.38	-234.7
1429	0.3	2.4	0.1	5.47	5.64	24.66	954	0.21	1.11	-235.9
1432	0.3	2.7	0.1	5.47	5.64	24.66	954	0.21	1.59	-235.1
1435	0.3	3.0	0.1	5.47	5.64	24.66	954	0.21	1.20	-235.4

TUBING INSIDE DIA. CAPACITY (Liters/Ft.): **1/8"** = 0.0024; **3/16"** = 0.0054; **1/4"** = 0.0097; **5/16"** = 0.0151; **3/8"** = 0.0217; **1/2"** = 0.0386; **5/8"** = 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING TIME:
Ryan McLain, Marty Mullis/ Antea Group	Ryan	1440

FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
# CONTAINERS	VOLUME	PRESERVATIVE USED	
3	40ml	None	VOC's
~~1~~	~~250~~	~~Nitric acid~~	~~Metals~~ RM
~~2~~	~~1L~~	~~None~~	~~TOX~~

REMARKS:

NOTES: 1. STABILIZATION CRITERIA FOR THREE CONSECUTIVE WATER QUALITY READINGS

Turbidity:	<10 NTU
Temp.:	<0.5 Degrees C
pH:	<0.1 SU
Specific Conductance:	10%
Drawdown:	<0.5 ft from Initial
Dissolved Oxygen:	<0.5 mg/L

GROUNDWATER SAMPLING LOG

SITE NAME:	Former Hercules Facility	SITE LOCATION:	Brunswick, GA
WELL ID:	MW49D	DATE:	5/16/12

PURGING DATA

WELL DIAMETER (inches):	2	WELL SCREEN INTERVAL DEPTH:	86 feet to 96 feet	STATIC DEPTH TO WATER (feet):	5.92	PURGE PUMP TYPE OR BAILER:	SS monsoon

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= .1046 liters + (0.0217 liters/foot X 100 feet) + 0.5 liters = 2.7 liters

TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (liters)	PURGE RATE (L/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISS. OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
1406	2.7	2.7	0.1	5.60	6.82	24.35	1259	0.60	15.1	-144.4
1409	0.3	3.0	0.1	5.61	6.82	24.35	1258	0.58	12.2	-144.6
1412	0.3	3.3	0.1	5.61	6.79	24.35	1258	0.56	10.12	-144.9
1415	0.3	3.6	0.1	5.61	6.79	24.35	1258	0.54	9.04	-144.9

TUBING INSIDE DIA. CAPACITY (Liters/Ft.): 1/8" = 0.0024; 3/16" = 0.0054; 1/4" = 0.0097; 5/16" = 0.0151; 3/8" = 0.0217; 1/2" = 0.0386; 5/8" = 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING TIME:
Ryan McLain, Marty Mullis/ Antea Group		1420

FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
# CONTAINERS	VOLUME	PRESERVATIVE USED	
3	40ml	None	VOC's
~~1~~	~~250~~	~~Nitric acid~~	~~Metals~~
~~2~~	~~1 L~~	~~None~~	~~TOX~~

REMARKS:

NOTES: 1. STABILIZATION CRITERIA FOR THREE CONSECUTIVE WATER QUALITY READINGS

Turbidity:	<10 NTU
Temp.:	<0.5 Degrees C
pH:	<0.1 SU
Specific Conductance:	10%
Drawdown:	<0.5 ft from Initial
Dissolved Oxygen:	<0.5 mg/L

GROUNDWATER SAMPLING LOG

SITE NAME:	Former Hercules Facility	SITE LOCATION:	Brunswick, GA
WELL ID:	MW52S	DATE: ~~5/16/12~~	5/15/12

PURGING DATA

WELL DIAMETER (inches):	2	WELL SCREEN INTERVAL DEPTH:	10 feet to 20 feet	STATIC DEPTH TO WATER (feet):	4.08	PURGE PUMP TYPE OR BAILER:	PP

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= Na liters + (0.0217 liters/foot X 25 feet) + 0.5 liters = 1.0 liters

TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (liters)	PURGE RATE (L/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISS. OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
1651	1.0	1.0	0.1	4.03	6.91	24.06	447	1.53	33.8	-69.9
1654	0.3	1.3	0.1	4.04	6.49	23.16	440	1.50	18.8	-62.5
1657	0.3	1.6	0.1	4.05	6.47	23.16	439	1.45	14.7	-62.5
1700	0.3	1.9	0.1	4.06	6.47	23.16	438	1.40	12.2	-62.5

TUBING INSIDE DIA. CAPACITY (Liters/Ft.): **1/8"** = 0.0024; **3/16"** = 0.0054; **1/4"** = 0.0097; **5/16"** = 0.0151; **3/8"** = 0.0217; **1/2"** = 0.0386; **5/8"** = 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING TIME:
Ryan McLain, Marty Mullis/ Antea Group		1705

FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
# CONTAINERS	VOLUME	PRESERVATIVE USED	
3	40ml	None	VOC's
1	250	Nitric acid	Metals
2	1 L	None	TOX

REMARKS:

NOTES: 1. STABILIZATION CRITERIA FOR THREE CONSECUTIVE WATER QUALITY READINGS

Turbidity:	<10 NTU
Temp.:	<0.5 Degrees C
pH:	<0.1 SU
Specific Conductance:	10%
Drawdown:	<0.5 ft from Initial
Dissolved Oxygen:	<0.5 mg/L

GROUNDWATER SAMPLING LOG

SITE NAME:	Former Hercules Facility	SITE LOCATION:	Brunswick, GA
WELL ID:	MW52I	DATE: ~~5/16/12~~	5/15/12

PURGING DATA

WELL DIAMETER (inches):	2	WELL SCREEN INTERVAL DEPTH:	40 feet to 50 feet	STATIC DEPTH TO WATER (feet):	4.43	PURGE PUMP TYPE OR BAILER:	SS Monsoon

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= 1.046 liters + (0.0217 liters/foot X 50 feet) + 0.5 liters = 1.6 liters

TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (liters)	PURGE RATE (L/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISS. OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
1620	1.6	1.6	0.1	4.69	7.02	24.06	681	0.27	629	-119.2
1623	0.3	1.9	0.1	4.69	7.05	24.02	680	0.37	629	-118.5
1626	0.3	2.2	0.1	4.69	7.07	23.86	678	0.19	574	-119.0
1629	0.3	2.5	0.1	4.69	7.10	24.01	679	0.37	372	-123.0
1632	0.3	2.8	0.1	4.69	7.15	24.53	687	0.29	350	-125.5
1635	0.3	3.1	0.1	4.69	7.15	24.54	687	0.27	321	-126.6

TUBING INSIDE DIA. CAPACITY (Liters/Ft.): **1/8"** = 0.0024; **3/16"** = 0.0054; **1/4"** = 0.0097; **5/16"** = 0.0151; **3/8"** = 0.0217; **1/2"** = 0.0386; **5/8"** = 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING TIME:
Ryan McLain, Marty Mullis/ Antea Group		1640

FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
# CONTAINERS	VOLUME	PRESERVATIVE USED	
3	40ml	None	VOC's
1	250	Nitric acid	Metals
2	1 L	None	TOX

REMARKS:

NOTES: 1. STABILIZATION CRITERIA FOR THREE CONSECUTIVE WATER QUALITY READINGS

Turbidity:	<10 NTU
Temp.:	<0.5 Degrees C
pH:	<0.1 SU
Specific Conductance:	10%
Drawdown:	<0.5 ft from Initial
Dissolved Oxygen:	<0.5 mg/L

GROUNDWATER SAMPLING LOG

SITE NAME:	Former Hercules Facility	SITE LOCATION:	Brunswick, GA
WELL ID:	MW 52D	DATE: ~~5/16/12~~	5/15/12

PURGING DATA

WELL DIAMETER (inches):	2	WELL SCREEN INTERVAL DEPTH:	79 feet to 89 feet	STATIC DEPTH TO WATER (feet):	4.49	PURGE PUMP TYPE OR BAILER:	SS monsoon

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= 1046 liters + (0.0217 liters/foot X 100 feet) + 0.5 liters = 2.7 liters

TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (liters)	PURGE RATE (L/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISS. OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
1624	2.7	2.7	0.1	4.42	6.60	23.72	8567	1.06	136	-147.9
1627	0.3	3.0	0.1	4.42	6.58	23.81	8602	1.00	68.1	-147.0
1630	0.3	3.3	0.1	4.42	6.58	23.79	8837	0.97	32.2	-145.6
1633	0.3	3.6	0.1	4.42	6.57	23.78	8829	0.96	20.2	-145.3
1636	0.3	3.9	0.1	4.42	6.56	23.68	8957	0.92	15.6	-143.8
1639	0.3	4.2	0.1	4.42	6.61	23.51	9080	0.87	12.8	-128.7
1642	0.3	4.5	0.1	4.42	6.53	23.46	9244	0.81	10.9	-132.1
1645	0.3	4.8	0.1	4.42	6.53	23.50	9196	0.80	9.8	-134.4

TUBING INSIDE DIA. CAPACITY (Liters/Ft.): 1/8" = 0.0024; 3/16" = 0.0054; 1/4" = 0.0097; 5/16" = 0.0151; 3/8" = 0.0217; 1/2" = 0.0386; 5/8" = 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING TIME:
Ryan McLain, Marty Mullis/ Antea Group		1650

FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
# CONTAINERS	VOLUME	PRESERVATIVE USED	
3	40ml	None	VOC's
1	250	Nitric acid	Metals
2	1 L	None	TOX

REMARKS:

NOTES: 1. STABILIZATION CRITERIA FOR THREE CONSECUTIVE WATER QUALITY READINGS

Turbidity:	<10 NTU
Temp.:	<0.5 Degrees C
pH:	<0.1 SU
Specific Conductance:	10%
Drawdown:	<0.5 ft from Initial
Dissolved Oxygen:	<0.5 mg/L

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T Other: Delta | **Facility** Ashland Bardstick | **Site ID** MW-44D | **Project No.** | **Date** (m/d/y) 7-29-10

Site Description ☐ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 95 ☐ °C ☑ °F Weather: Clear

Well Locked? ☑ yes ☐ no Damaged/Repairs Needed: none

☐ TOC ☐ MP Description: Stickup

TOC/MP Stickup: 3 ☐ ft ☐ m above/below ground Well Inside Diameter (ID): ☑ 2-inch ☐ 4-inch Other:

Site Remarks (nearby wells pumping, tide, stream stage, etc.)

Water Level Data

Measurement Units: ☐ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC:

☐ E-Tape, # ____ ☐ Steel Tape ☐ Other

	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)	Initial						
Depth to Water	8.99						DTB =
Tape Correction	—						>100'
Water Level (WL)	8.99						(100' Tape)
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data

Purge Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Casing Volume: [_____(TD) - _____(WL)] • [_____(Well ID)]^2 • [_____(Conversion Factor)] = _____ ☐ gal ☐ liters

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☐ Pumping Rate	250mL/min					(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)	Initial	1316	1321	1326	1331	1336	Horiba U-22	
pH (Temperature Corrected? ☐)	6.73	6.78	6.90	6.91	6.92	6.93		
Temperature ☑ °C ☐ °F	24.55	24.42	24.56	24.63	24.44	24.49		
Dissolved Oxygen mg/L	6.45	5.93	5.66	2.57 5.48	5.35	5.28		
☑ SC or ☐ EC µS/cm	2.65	2.55	2.58	2.56	2.61	2.62		
Turbidity ☑ NTU	62.4	28.0	12.6	8.9	8.0	8.3		
Color/Tint water level	gray 10.11	10.17	10.17	8.9 10.17	10.17	10.17		
Odor TDS 911	1.68	1.62	1.65	1.65	1.67	1.68		
ORP mV	-201	-210	-210	-209	-207	-207		

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed **before** sampling, **in gallons or liters.** Pumping Rate **is** gpm or Lpm, **depending on box checked in** casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C): EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data

Sample Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW-44D	PO	7/29/10	1336	5	NO	T.A.	—	—	

Sample ID may be up to 15 characters. **Sample Result Code, Date, and Time must be entered.** Result Codes: PO, Primary Sample; D#, Duplicate Sample; IS#, Split Sample (sent to second lab): BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). **Lab ID (up to 5 characters)** is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) Wes Barfield / C.W. Signature W. Barfield

Date Entered into Database _____ By _____

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T Other: Delta	Facility Ashland Brunswick	Site ID MW-10D
	Project No.	Date (m/d/y) 7-29-10

Site Description ☑ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 95 ☐ °C ☑ °F	Weather: Clear	
Well Locked? ☑ yes ☐ no	Damaged/Repairs Needed: None	
☑ TOC ☐ MP Description: Stickup		
TOC/MP Stickup: 3 ☑ ft ☐ m above/below ground	Well Inside Diameter (ID): ☑ 2-inch ☐ 4-inch Other:	
Site Remarks (nearby wells pumping, tide, stream stage, etc.)		

Water Level Data Measurement Units: ☑ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC:

☐ E-Tape, # _____ ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)	~~Initial~~ 1440						TD = 95 ft
Depth to Water	7.26						
Tape Correction	—						
Water Level (WL)	7.26						
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice, record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping, F - flowing (artesian well), R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: ☐ Grab ☐ Bailer ☑ Pump Description: Mega Monsoon

Casing Volume: [_____(TD) - _____(WL)]•[_____(Well ID)]^2•[_____(Conversion Factor)] = _____ ☐ gal ☐ liters
Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches
Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☐ Pumping Rate	~~250~~ 400 mL/min	→	→	400 mL/min	→	500 mL/min (Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)	Initial 1456	1459	1502	1505	1508			
pH (Temperature Corrected? ☐)	5.89	5.77	5.75	5.80	5.80	5.93		
Temperature ☑ °C ☐ °F	27.78	26.41	26.07	25.33	25.35	24.86		
Dissolved Oxygen mg/L	5.44	4.78	5.04	5.64	5.62	5.85		
☑ SC or ☐ EC ~~µS~~/cm	16.3	18.2	19.0	21.1	21.2	20.9		
Turbidity ☑ NTU	98.6	~~18.2~~ 83.6	167.0	34.3	26.8	34.4		
~~Color~~ ~~Tint~~ ~~Water Level~~	7.31	7.31	7.34	7.40	7.40	7.86		
~~Odor~~ TDS g/L	11.4	11.3	11.7	13.1	13.1	13.0		
ORP mV	-59	-75	-98	-93	-101	-104	↓	

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon.

Sample Data Sample Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW-10	PO	7-29-10		5	No	TA	—	—	

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) W. Barfield /CW	Signature

Date Entered into Database _____ By _____

DELTA CONSULTANTS — GROUNDWATER SAMPLING RECORD

Sampled By ☐ Facility Personnel ☐ ES&T Other: Delta	**Facility** Ashland Brunswick	**Site ID** MW-10D
	Project No.	**Date** (m/d/y) 7-29-10

Site Description ☑ Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 95 ☐ °C ☑ °F	Weather: Clear
Well Locked? ☑ yes ☐ no	Damaged/Repairs Needed: none
☐ TOC ☐ MP Description:	stickup
TOC/MP Stickup: 3 ☑ ft ☐ m above/below ground	Well Inside Diameter (ID): ☑ 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data Measurement Units: ☐ ft ☐ m Well or Borehole Total Depth (TD) from MP or TOC:

☐ E-Tape, # _____ ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)							
Depth to Water	7.26						
Tape Correction	—						
Water Level (WL)	7.26						
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed, P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Casing Volume: [_____(TD) - _____(WL)]•[_____(Well ID)]^2•[_____(Conversion Factor)] = _____ ☐ gal ☐ liters
Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☐ Pumping Rate	300 mL/min	—	—	—	—	(Final) 7	Meter Type	Remarks
Time (hh:mm; 24-hr clock)	1511	1514 1556	1517 1553	1570 1550	1559	1602	U-22	cont.
pH (Temperature Corrected? ☐)	5.95	5.44	5.44	5.44	5.42	5.42		from
Temperature ☑°C ☐°F	25.92	25.46	25.33	25.24	25.12	25.10		p.1 of 1
Dissolved Oxygen mg/L	6.66	9.18	11.20	11.70	12.00	12.09		
☐ SC or ☐ EC µS/cm	18.9	18.2	18.2	14.9	18.8	18.6		U-22
Turbidity ☑ NTU	76.5	77.8	127.0	174.0	295.0	322.0		Turbidity
Color/Tint Water Level	7.38	7.40	7.40	7.40	7.40	7.40		meter suspected
Odor TDS g/L	12.6	11.2	11.4	11.9	11.6	11.5		to be fouled
ORP mV	-72	-57	-73	-74	-80	-80		Attempted to trouble shoot. No improvement

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm) µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: ☐ Grab ☐ Bailer ☐ Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW-10	PO	7-29-10	1602	5	N	TA			

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) W. Barfield / CW	Signature W. Barfield

Date Entered into Database _____ By _____

GROUNDWATER SAMPLING LOG

SITE NAME:	Former Hercules Facility	SITE LOCATION:	Brunswick, GA
WELL ID:	MW-505	DATE:	5/16/12

PURGING DATA

WELL DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	10 feet to 20 feet	4.86	PP

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= Add liters + (.0217 liters/foot X 25 feet) + 0.50 liters = 1.1 liters

TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (liters)	PURGE RATE (L/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISS. OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
847	1.1	1.4	0.1	4.91	7.30	23.14	1143	2.18	52.4	-228.6
~~850~~	.3	1.7	.1	4.92	7.30	23.15	1143	2.18	50.6	227.0
853	.3	2.0	.1	4.93	7.30	23.15	1143	2.13	48.8	228.1
856	.3	2.3	.1	4.93	7.30	23.15	1140	2.15	47.0	228.1

TUBING INSIDE DIA. CAPACITY (Liters/Ft.): 1/8" = 0.0024; 3/16" = 0.0054; 1/4" = 0.0097; 5/16" = 0.0151; 3/8" = 0.0217; 1/2" = 0.0386; 5/8" = 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING TIME:
Ryan McLain and Marty Mullis/ Antea Group		900

FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
# CONTAINERS	VOLUME	PRESERVATIVE USED	
3	40	HCL	VOC's
			~~SVOC's~~
			~~TOX~~
1	250	HNO3	Metals

REMARKS:

NOTES: 1. STABILIZATION CRITERIA FOR THREE CONSECUTIVE WATER QUALITY READINGS

Turbidity:	<10 NTU
Temp.:	<0.5 Degrees C
pH:	<0.1 SU
Specific Conductance:	10%
Drawdown:	<0.5 ft from Initial
Dissolved Oxygen:	<0.5 mg/L

GROUNDWATER SAMPLING LOG

SITE NAME:	Former Hercules Facility	SITE LOCATION:	Brunswick, GA
WELL ID:	MW50I	DATE:	5/16/12

PURGING DATA

WELL DIAMETER (inches):	2	WELL SCREEN INTERVAL DEPTH:	36 feet to 46 feet	STATIC DEPTH TO WATER (feet):	5.79	PURGE PUMP TYPE OR BAILER:	SS monsoon

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= 0.046 liters + (0.0217 liters/foot X 50 feet) + 0.5 liters = 1.6 liters

TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (liters)	PURGE RATE (L/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISS. OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
931	1.6	1.6	0.1	5.72	7.32	23.51	2674	0.06	310	-220.2
934	0.3	1.9	0.1	5.72	7.32	23.51	2674	0.07	168	-214.8
937	0.3	2.2	0.1	5.70	7.31	23.51	2674	0.07	160	-214.1
940	0.3	2.5	0.1	5.70	7.31	23.51	2674	0.07	160	-214.0

TUBING INSIDE DIA. CAPACITY (Liters/Ft.): 1/8" = 0.0024; 3/16" = 0.0054; 1/4" = 0.0097; 5/16" = 0.0151; 3/8" = 0.0217; 1/2" = 0.0386; 5/8" = 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING TIME:
Ryan McLain, Marty Mullis/ Antea Group		945

FIELD DECONTAMINATION: (Y) N	FIELD FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
# CONTAINERS	VOLUME	PRESERVATIVE USED	
3	40ml	None	VOC's
1	250	Nitric acid	Metals
~~2~~	1 L	~~None~~	~~TOX~~

REMARKS:

NOTES: 1. STABILIZATION CRITERIA FOR THREE CONSECUTIVE WATER QUALITY READINGS

Turbidity:	<10 NTU
Temp.:	<0.5 Degrees C
pH:	<0.1 SU
Specific Conductance:	10%
Drawdown:	<0.5 ft from Initial
Dissolved Oxygen:	<0.5 mg/L

GROUNDWATER SAMPLING LOG

SITE NAME:	Former Hercules Facility	SITE LOCATION:	Brunswick, GA
WELL ID:	MW 50 D	DATE:	5/16/12

PURGING DATA

WELL DIAMETER (inches):	2	WELL SCREEN INTERVAL DEPTH:	78 feet to 88 feet	STATIC DEPTH TO WATER (feet):	5.76	PURGE PUMP TYPE OR BAILER:	SS monsoon

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= 0.046 liters + (0.0217 liters/foot X 90 feet) + 0.5 liters = 2.5 liters

TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (liters)	PURGE RATE (L/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISS. OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
911	2.5	2.5	0.1	5.48	8.26	23.22	578	0.93	52.4	-167.1
914	0.3	2.8	0.1	5.50	7.72	23.22	578	0.93	48.4	-185.1
917	0.3	3.1	0.1	5.50	7.72	23.22	578	0.93	48.0	-185.1
920	0.3	3.4	0.1	5.50	7.72	23.22	578	0.93	48.1	-185.1

TUBING INSIDE DIA. CAPACITY (Liters/Ft.): **1/8"** = 0.0024; **3/16"** = 0.0054; **1/4"** = 0.0097; **5/16"** = 0.0151; **3/8"** = 0.0217; **1/2"** = 0.0386; **5/8"** = 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING TIME:
Ryan McLain, Marty Mullis/ Antea Group		925

FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
# CONTAINERS	VOLUME	PRESERVATIVE USED	
3	40ml	None	VOC's
1	250	Nitric acid	Metals
~~2~~	~~1 L~~	~~None~~	~~TOX~~ RM

REMARKS:

NOTES: 1. STABILIZATION CRITERIA FOR THREE CONSECUTIVE WATER QUALITY READINGS

Turbidity:	<10 NTU
Temp.:	<0.5 Degrees C
pH:	<0.1 SU
Specific Conductance:	10%
Drawdown:	<0.5 ft from Initial
Dissolved Oxygen:	<0.5 mg/L

GROUNDWATER SAMPLING LOG

SITE NAME:	Former Hercules Facility	SITE LOCATION:	Brunswick, GA
WELL ID:	MW515	DATE:	5/16/12

PURGING DATA

WELL DIAMETER (inches):	2	WELL SCREEN INTERVAL DEPTH:	10 feet to 20 feet	STATIC DEPTH TO WATER (feet):	3.79	PURGE PUMP TYPE OR BAILER:	PP

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= NA liters + (0.0217 liters/foot X 25 feet) + 0.5 liters = 1 liters

TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (liters)	PURGE RATE (L/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISS. OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
1041	1	1	0.1	4.64	5.91	24.31	5555	0.02	47.5	-250.9
1044	0.3	1.3	0.1	4.65	5.92	24.32	5554	0.02	44.2	-256.1
1047	0.3	1.6	0.1	4.65	5.92	24.32	5554	0.01	44.1	-256.2
1050	0.3	1.9	0.1	4.65	5.92	24.32	5554	0.01	45.6	-256.3

TUBING INSIDE DIA. CAPACITY (Liters/Ft.): **1/8"** = 0.0024; **3/16"** = 0.0054; **1/4"** = 0.0097; **5/16"** = 0.0151; **3/8"** = 0.0217; **1/2"** = 0.0386; **5/8"** = 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING TIME:
Ryan McLain, Marty Mullis/ Antea Group		1055

FIELD DECONTAMINATION: Y (N)

FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm
Filtration Equipment Type: ____

DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
# CONTAINERS	VOLUME	PRESERVATIVE USED	
3	40ml	None	VOC's
1	250	Nitric acid	Metals
~~2~~	~~1 L~~	~~None~~	~~TOX~~ RM

REMARKS:

NOTES: 1. STABILIZATION CRITERIA FOR THREE CONSECUTIVE WATER QUALITY READINGS

Turbidity:	<10 NTU
Temp.:	<0.5 Degrees C
pH:	<0.1 SU
Specific Conductance:	10%
Drawdown:	<0.5 ft from Initial
Dissolved Oxygen:	<0.5 mg/L

GROUNDWATER SAMPLING LOG

SITE NAME:	Former Hercules Facility	SITE LOCATION:	Brunswick, GA
WELL ID:	MW-51 I	DATE:	5/16/12

PURGING DATA

WELL DIAMETER (inches):	2	WELL SCREEN INTERVAL DEPTH:	40 feet to 50 feet	STATIC DEPTH TO WATER (feet):	4.54	PURGE PUMP TYPE OR BAILER:	SS monsoon

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.016 liters + (0.0217 liters/foot X 50 feet) + 0.5 liters = 1.6 liters

TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (liters)	PURGE RATE (L/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISS. OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
1036	1.6	1.6	0.1	3.39	7.01	23.54	1048	1.37	221	-121.9
1039	0.3	1.9	0.1	3.37	7.00	23.55	1048	1.37	219	-121.0
1042	0.3	2.1	0.1	3.37	6.99	23.55	1048	1.35	217	-122.2
1045	0.3	2.4	0.1	3.37	6.99	23.56	1048	1.35	216	-122.3

TUBING INSIDE DIA. CAPACITY (Liters/Ft.): 1/8" = 0.0024; 3/16" = 0.0054; 1/4" = 0.0097; 5/16" = 0.0151; 3/8" = 0.0217; 1/2" = 0.0386; 5/8" = 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING TIME:
Ryan McLain, Marty Mullis/ Antea Group		1050

FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
# CONTAINERS	VOLUME	PRESERVATIVE USED	
3	40ml	None	VOC's
1	250	Nitric acid	Metals
~~2~~	~~1 L~~	~~None~~	~~TOX~~ RM

REMARKS:

NOTES: 1. STABILIZATION CRITERIA FOR THREE CONSECUTIVE WATER QUALITY READINGS

Turbidity:	<10 NTU
Temp.:	<0.5 Degrees C
pH:	<0.1 SU
Specific Conductance:	10%
Drawdown:	<0.5 ft from Initial
Dissolved Oxygen:	<0.5 mg/L

GROUNDWATER SAMPLING LOG

SITE NAME:	Former Hercules Facility	SITE LOCATION:	Brunswick, GA
WELL ID:	MW51D	DATE:	5/16/12

PURGING DATA

WELL DIAMETER (inches):	2	WELL SCREEN INTERVAL DEPTH:	76 feet to 86 feet	STATIC DEPTH TO WATER (feet):	4.43	PURGE PUMP TYPE OR BAILER:	SS monsoon

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.046 liters + (0.0217 liters/foot X 90 feet) + 0.5 liters = 2.5 liters

TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (liters)	PURGE RATE (L/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISS. OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
1031	2.5	2.5	0.1	5.01	7.42	23.34	1221	0.67	20.1	-175.6
1034	0.3	2.8	0.1	5.00	7.40	22.31	1532	0.66	15.2	-175.5
1037	0.3	3.1	0.1	5.00	7.40	22.63	1509	0.52	12.3	-175.6
1030	0.3	3.4	0.1	4.99	7.40	22.61	1469	0.48	9.66	-174.8

TUBING INSIDE DIA. CAPACITY (Liters/Ft.): **1/8"** = 0.0024; **3/16"** = 0.0054; **1/4"** = 0.0097; **5/16"** = 0.0151; **3/8"** = 0.0217; **1/2"** = 0.0386; **5/8"** = 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING TIME:
Ryan McLain, Marty Mullis/ Antea Group		1035

FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
# CONTAINERS	VOLUME	PRESERVATIVE USED	
3	40ml	None	VOC's
1	250	Nitric acid	Metals
2	1 L	None	TOX

REMARKS:

NOTES: 1. STABILIZATION CRITERIA FOR THREE CONSECUTIVE WATER QUALITY READINGS

Turbidity:	<10 NTU
Temp.:	<0.5 Degrees C
pH:	<0.1 SU
Specific Conductance:	10%
Drawdown:	<0.5 ft from Initial
Dissolved Oxygen:	<0.5 mg/L

GROUNDWATER SAMPLING LOG

SITE NAME:	Former Hercules Facility	SITE LOCATION:	Brunswick, GA
WELL ID:	MW 42I	DATE:	5/16/12

PURGING DATA

WELL DIAMETER (inches):	2	WELL SCREEN INTERVAL DEPTH:	40 feet to 50 feet	STATIC DEPTH TO WATER (feet):	6.91	PURGE PUMP TYPE OR BAILER:	SS monsoon

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= .046 liters + (0.0217 liters/foot X 50 feet) + 0.5 liters = 1.6 liters

TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (liters)	PURGE RATE (L/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISS. OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
1536	1.6	1.6	0.1	6.48	5.87	24.33	482	1.29	2.66	-185.7
1539	0.3	1.9	0.1	6.49	5.87	24.34	482	1.30	3.10	-188.7
1542	0.3	2.2	0.1	6.49	5.88	24.35	482	1.30	3.22	-188.7
1545	0.3	2.5	0.1	6.49	5.88	24.35	482	1.30	2.88	-189.8

TUBING INSIDE DIA. CAPACITY (Liters/Ft.): **1/8"** = 0.0024; **3/16"** = 0.0054; **1/4"** = 0.0097; **5/16"** = 0.0151; **3/8"** = 0.0217; **1/2"** = 0.0386; **5/8"** = 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING TIME:
Ryan McLain, Marty Mullis/ Antea Group		1550

FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
# CONTAINERS	VOLUME	PRESERVATIVE USED	
3	40ml	None	VOC's
1	250	Nitric acid	Metals
2	1 L	None	TOX

REMARKS:

NOTES: 1. STABILIZATION CRITERIA FOR THREE CONSECUTIVE WATER QUALITY READINGS

Turbidity:	<10 NTU
Temp.:	<0.5 Degrees C
pH:	<0.1 SU
Specific Conductance:	10%
Drawdown:	<0.5 ft from Initial
Dissolved Oxygen:	<0.5 mg/L

GROUNDWATER SAMPLING LOG

SITE NAME: Former Hercules Facility	SITE LOCATION: Brunswick, GA
WELL ID: MW42D	DATE: 5/16/12

PURGING DATA

WELL DIAMETER (inches): 2	WELL SCREEN INTERVAL DEPTH: 88 feet to 98 feet	STATIC DEPTH TO WATER (feet): 7.58	PURGE PUMP TYPE OR BAILER: SSmonsoon

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 1046 liters + (0.0217 liters/foot X 100 feet) + 0.5 liters = 2.7 liters

TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (liters)	PURGE RATE (L/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISS. OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
1516	2.7	2.7	0.1	7.32	7.47	23.51	2319	0.38	3.14	-208.1
1519	0.3	3.0	0.1	7.34	7.46	23.30	2399	0.33	5.66	-212.2
1522	0.3	3.3	0.1	7.34	7.56	23.39	2400	0.32	2.74	-212.8
1525	0.3	3.6	0.1	7.34	7.56	23.39	2400	0.32	3.01	-212.8

TUBING INSIDE DIA. CAPACITY (Liters/Ft.): 1/8" = 0.0024; 3/16" = 0.0054; 1/4" = 0.0097; 5/16" = 0.0151; 3/8" = 0.0217; 1/2" = 0.0386; 5/8" = 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Ryan McLain, Marty Mullis/ Antea Group	SAMPLER(S) SIGNATURES:	SAMPLING TIME: 1530
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
# CONTAINERS	VOLUME	PRESERVATIVE USED	
3	40ml	None	VOC's
1	250	Nitric acid	Metals
2	1 L	None	TOX

REMARKS:

NOTES: 1. STABILIZATION CRITERIA FOR THREE CONSECUTIVE WATER QUALITY READINGS

Turbidity:	<10 NTU
Temp.:	<0.5 Degrees C
pH:	<0.1 SU
Specific Conductance:	10%
Drawdown:	<0.5 ft from Initial
Dissolved Oxygen:	<0.5 mg/L

GROUNDWATER SAMPLING LOG

SITE NAME:	Former Hercules Facility	SITE LOCATION:	Brunswick, GA
WELL ID:	MW43S	DATE:	5/16/12

PURGING DATA

WELL DIAMETER (inches):	2	WELL SCREEN INTERVAL DEPTH:	10 feet to 20 feet	STATIC DEPTH TO WATER (feet):	5.04	PURGE PUMP TYPE OR BAILER:	PP

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= NA liters + (0.0217 liters/foot X 25 feet) + 0.5 liters = 1 liters

TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (liters)	PURGE RATE (L/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISS. OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
1316	1	1	0.1	3.51	6.67	25.29	1491	1.75	6.06	-234.2
1319	0.3	1.3	0.1	3.51	6.64	24.66	1491	1.74	3.14	-248.2
1322	0.3	1.6	0.1	3.57	6.64	24.66	1494	1.71	3.10	-252.2
1325	0.3	1.9	0.1	3.57	6.64	24.63	1494	1.70	3.08	-252.6

TUBING INSIDE DIA. CAPACITY (Liters/Ft.): 1/8" = 0.0024; 3/16" = 0.0054; 1/4" = 0.0097; 5/16" = 0.0151; 3/8" = 0.0217; 1/2" = 0.0386; 5/8" = 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING TIME:
Ryan McLain, Marty Mullis/ Antea Group		1330

FIELD DECONTAMINATION: Y (N)	FIELD FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
# CONTAINERS	VOLUME	PRESERVATIVE USED	
3	40ml	None	VOC's
1	250	Nitric acid	Metals
2	1 L	None	TOX

REMARKS:

NOTES: 1. STABILIZATION CRITERIA FOR THREE CONSECUTIVE WATER QUALITY READINGS

Turbidity:	<10 NTU
Temp.:	<0.5 Degrees C
pH:	<0.1 SU
Specific Conductance:	10%
Drawdown:	<0.5 ft from Initial
Dissolved Oxygen:	<0.5 mg/L

GROUNDWATER SAMPLING LOG

SITE NAME:	Former Hercules Facility	SITE LOCATION:	Brunswick, GA
WELL ID:	MW43I	DATE:	5/16/12

PURGING DATA

WELL DIAMETER (inches):	2	WELL SCREEN INTERVAL DEPTH:	40 feet to 50 feet	STATIC DEPTH TO WATER (feet):	6.82	PURGE PUMP TYPE OR BAILER:	SSmonsoon

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= 1046 liters + (0.0217 liters/foot X 50 feet) + 0.5 liters = 1.6 liters

TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (liters)	PURGE RATE (L/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISS. OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
1306	1.6	1.6	0.1	6.70	7.67	25.38	2249	1.04	3.55	-216.8
1309	0.3	1.9	0.1	6.71	7.67	25.39	2249	1.04	4.11	-209.4
1312	0.3	2.2	0.1	6.71	7.67	25.39	2249	1.04	4.07	-200.0
1315	0.3	2.5	0.1	6.71	7.67	25.39	2249	1.04	4.02	-188.6

TUBING INSIDE DIA. CAPACITY (Liters/Ft.): 1/8" = 0.0024; 3/16" = 0.0054; 1/4" = 0.0097; 5/16" = 0.0151; 3/8" = 0.0217; 1/2" = 0.0386; 5/8" = 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING TIME:
Ryan McLain, Marty Mullis/ Antea Group		1320

FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: (Y) N Dup-1

SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
# CONTAINERS	VOLUME	PRESERVATIVE USED	
3	40ml	None	VOC's
1	250	Nitric acid	Metals
2	1 L	None	TOX

REMARKS:

NOTES: 1. STABILIZATION CRITERIA FOR THREE CONSECUTIVE WATER QUALITY READINGS

Turbidity:	<10 NTU
Temp.:	<0.5 Degrees C
pH:	<0.1 SU
Specific Conductance:	10%
Drawdown:	<0.5 ft from Initial
Dissolved Oxygen:	<0.5 mg/L

GROUNDWATER SAMPLING LOG

SITE NAME:	Former Hercules Facility	SITE LOCATION:	Brunswick, GA
WELL ID:	MW43D	DATE:	5/16/12

PURGING DATA

WELL DIAMETER (inches):	2	WELL SCREEN INTERVAL DEPTH:	89 feet to 99 feet	STATIC DEPTH TO WATER (feet):	6.89	PURGE PUMP TYPE OR BAILER:	SS monsoon

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= 1046 liters + (0.0217 liters/foot X 100 feet) + 0.5 liters = 2.7 liters

TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (liters)	PURGE RATE (L/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISS. OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
1246	2.7	2.7	0.1	6.51	7.62	24.87	2195	1.40	5.32	-224.0
1249	0.3	3.0	0.1	6.52	7.65	25.04	2195	1.38	5.66	-208.1
1252	0.3	3.3	0.1	6.52	7.65	25.04	2200	1.35	4.72	-204.2
1255	0.3	3.6	0.1	6.52	7.65	25.04	2214	1.39	4.58	-204.1

TUBING INSIDE DIA. CAPACITY (Liters/Ft.): 1/8" = 0.0024; 3/16" = 0.0054; 1/4" = 0.0097; 5/16" = 0.0151; 3/8" = 0.0217; 1/2" = 0.0386; 5/8" = 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING TIME:
Ryan McLain, Marty Mullis/ Antea Group		1300

FIELD DECONTAMINATION: (Y) N	FIELD FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
# CONTAINERS	VOLUME	PRESERVATIVE USED	
3	40ml	None	VOC's
1	250	Nitric acid	Metals
2	1 L	None	TOX

REMARKS:

NOTES: 1. STABILIZATION CRITERIA FOR THREE CONSECUTIVE WATER QUALITY READINGS

Turbidity:	<10 NTU
Temp.:	<0.5 Degrees C
pH:	<0.1 SU
Specific Conductance:	10%
Drawdown:	<0.5 ft from Initial
Dissolved Oxygen:	<0.5 mg/L

GROUNDWATER SAMPLING LOG

SITE NAME:	Former Hercules Facility	SITE LOCATION:	Brunswick, GA
WELL ID:	MW 49S	DATE:	5/16/12

PURGING DATA

WELL DIAMETER (inches):	2	WELL SCREEN INTERVAL DEPTH:	10 feet to 20 feet	STATIC DEPTH TO WATER (feet):	3.66	PURGE PUMP TYPE OR BAILER:	PP

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= Na liters + (0.0217 liters/foot X 25 feet) + 0.5 liters = 1.0 liters

TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (liters)	PURGE RATE (L/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISS. OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
1436	1.0	1.0	0.1	4.56	7.20	23.85	8	6.19	5.70	-132.6
1439	0.3	1.3	0.1	4.55	7.20	23.85	8	6.19	5.79	-132.1
1442	0.3	1.6	0.1	4.56	7.20	23.85	8	6.19	5.08	-132.9
1445	0.3	1.9	0.1	4.56	7.20	23.85	8	6.19	5.12	-132.8

TUBING INSIDE DIA. CAPACITY (Liters/Ft.): 1/8" = 0.0024; 3/16" = 0.0054; 1/4" = 0.0097; 5/16" = 0.0151; 3/8" = 0.0217; 1/2" = 0.0386; 5/8" = 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING TIME:
Ryan McLain, Marty Mullis/ Antea Group		1450

FIELD DECONTAMINATION: Y (N)

FIELD FILTERED: Y (N) FILTER SIZE: ____ µm
Filtration Equipment Type: ____

DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
# CONTAINERS	VOLUME	PRESERVATIVE USED	
3	40ml	None	VOC's
~~1~~	~~250~~	Nitric acid	~~Metals~~ RM
~~2~~	~~1 L~~	None	~~TOX~~

REMARKS:

NOTES: 1. STABILIZATION CRITERIA FOR THREE CONSECUTIVE WATER QUALITY READINGS

Turbidity:	<10 NTU
Temp.:	<0.5 Degrees C
pH:	<0.1 SU
Specific Conductance:	10%
Drawdown:	<0.5 ft from Initial
Dissolved Oxygen:	<0.5 mg/L

GROUNDWATER SAMPLING LOG

SITE NAME:	Former Hercules Facility	SITE LOCATION:	Brunswick, GA
WELL ID:	MW 49 I	DATE:	5/16/12

PURGING DATA

WELL DIAMETER (inches):	2	WELL SCREEN INTERVAL DEPTH:	57 feet to 67 feet	STATIC DEPTH TO WATER (feet):	5.86	PURGE PUMP TYPE OR BAILER:	SS monsoon

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= 1046 liters + (0.0217 liters/foot X 70 feet) + 0.5 liters = 2.1 liters

TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (liters)	PURGE RATE (L/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISS. OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
1426	2.1	2.1	0.1	5.47	5.64	24.67	954	0.23	1.38	-234.7
1429	0.3	2.4	0.1	5.47	5.64	24.66	954	0.21	1.11	-235.9
1432	0.3	2.7	0.1	5.47	5.64	24.66	954	0.21	1.59	-235.1
1435	0.3	3.0	0.1	5.47	5.64	24.66	954	0.21	1.20	-235.4

TUBING INSIDE DIA. CAPACITY (Liters/Ft.): **1/8"** = 0.0024; **3/16"** = 0.0054; **1/4"** = 0.0097; **5/16"** = 0.0151; **3/8"** = 0.0217; **1/2"** = 0.0386; **5/8"** = 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING TIME:
Ryan McLain, Marty Mullis/ Antea Group	Ryan	1440

FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
# CONTAINERS	VOLUME	PRESERVATIVE USED	
3	40ml	None	VOC's
~~1~~	~~250~~	~~Nitric acid~~	~~Metals~~ RM
~~2~~	~~1L~~	~~None~~	~~TOX~~

REMARKS:

NOTES: 1. STABILIZATION CRITERIA FOR THREE CONSECUTIVE WATER QUALITY READINGS

Turbidity:	<10 NTU
Temp.:	<0.5 Degrees C
pH:	<0.1 SU
Specific Conductance:	10%
Drawdown:	<0.5 ft from Initial
Dissolved Oxygen:	<0.5 mg/L

GROUNDWATER SAMPLING LOG

SITE NAME:	Former Hercules Facility	SITE LOCATION:	Brunswick, GA
WELL ID:	MW49D	DATE:	5/16/12

PURGING DATA

WELL DIAMETER (inches):	2	WELL SCREEN INTERVAL DEPTH:	86 feet to 96 feet	STATIC DEPTH TO WATER (feet):	5.92	PURGE PUMP TYPE OR BAILER:	SS monsoon

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= .1046 liters + (0.0217 liters/foot X 100 feet) + 0.5 liters = 2.7 liters

TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (liters)	PURGE RATE (L/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISS. OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
1406	2.7	2.7	0.1	5.60	6.82	24.35	1259	0.60	15.1	-144.4
1409	0.3	3.0	0.1	5.61	6.82	24.35	1258	0.58	12.2	-144.6
1412	0.3	3.3	0.1	5.61	6.79	24.35	1258	0.56	10.12	-144.9
1415	0.3	3.6	0.1	5.61	6.79	24.35	1258	0.54	9.04	-144.9

TUBING INSIDE DIA. CAPACITY (Liters/Ft.): 1/8" = 0.0024; 3/16" = 0.0054; 1/4" = 0.0097; 5/16" = 0.0151; 3/8" = 0.0217; 1/2" = 0.0386; 5/8" = 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING TIME:
Ryan McLain, Marty Mullis/ Antea Group		1420

FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
# CONTAINERS	VOLUME	PRESERVATIVE USED	
3	40ml	None	VOC's
~~1~~	~~250~~	~~Nitric acid~~	~~Metals~~
~~2~~	~~1 L~~	~~None~~	~~TOX~~

REMARKS:

NOTES: 1. STABILIZATION CRITERIA FOR THREE CONSECUTIVE WATER QUALITY READINGS

Turbidity:	<10 NTU
Temp.:	<0.5 Degrees C
pH:	<0.1 SU
Specific Conductance:	10%
Drawdown:	<0.5 ft from Initial
Dissolved Oxygen:	<0.5 mg/L

GROUNDWATER SAMPLING LOG

SITE NAME:	Former Hercules Facility	SITE LOCATION:	Brunswick, GA
WELL ID:	MW52S	DATE: ~~5/16/12~~	5/15/12

PURGING DATA

WELL DIAMETER (inches):	2	WELL SCREEN INTERVAL DEPTH:	10 feet to 20 feet	STATIC DEPTH TO WATER (feet):	4.08	PURGE PUMP TYPE OR BAILER:	PP

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= Na liters + (0.0217 liters/foot X 25 feet) + 0.5 liters = 1.0 liters

TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (liters)	PURGE RATE (L/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISS. OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
1651	1.0	1.0	0.1	4.03	6.91	24.06	447	1.53	33.8	-69.9
1654	0.3	1.3	0.1	4.04	6.49	23.16	440	1.50	18.8	-62.5
1657	0.3	1.6	0.1	4.05	6.47	23.16	439	1.45	14.7	-62.5
1700	0.3	1.9	0.1	4.06	6.47	23.16	438	1.40	12.2	-62.5

TUBING INSIDE DIA. CAPACITY (Liters/Ft.): **1/8"** = 0.0024; **3/16"** = 0.0054; **1/4"** = 0.0097; **5/16"** = 0.0151; **3/8"** = 0.0217; **1/2"** = 0.0386; **5/8"** = 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING TIME:
Ryan McLain, Marty Mullis/ Antea Group		1705

FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
# CONTAINERS	VOLUME	PRESERVATIVE USED	
3	40ml	None	VOC's
1	250	Nitric acid	Metals
2	1 L	None	TOX

REMARKS:

NOTES: 1. STABILIZATION CRITERIA FOR THREE CONSECUTIVE WATER QUALITY READINGS

Turbidity:	<10 NTU
Temp.:	<0.5 Degrees C
pH:	<0.1 SU
Specific Conductance:	10%
Drawdown:	<0.5 ft from Initial
Dissolved Oxygen:	<0.5 mg/L

GROUNDWATER SAMPLING LOG

SITE NAME:	Former Hercules Facility	SITE LOCATION:	Brunswick, GA
WELL ID:	MW52I	DATE: ~~5/16/12~~	5/15/12

PURGING DATA

WELL DIAMETER (inches):	2	WELL SCREEN INTERVAL DEPTH:	40 feet to 50 feet	STATIC DEPTH TO WATER (feet):	4.43	PURGE PUMP TYPE OR BAILER:	SS Monsoon

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= 1.046 liters + (0.0217 liters/foot X 50 feet) + 0.5 liters = 1.6 liters

TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (liters)	PURGE RATE (L/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISS. OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
1620	1.6	1.6	0.1	4.69	7.02	24.06	681	0.27	629	-119.2
1623	0.3	1.9	0.1	4.69	7.05	24.02	680	0.37	629	-118.5
1626	0.3	2.2	0.1	4.69	7.07	23.86	678	0.19	574	-119.0
1629	0.3	2.5	0.1	4.69	7.10	24.01	679	0.37	372	-123.0
1632	0.3	2.8	0.1	4.69	7.15	24.53	687	0.29	350	-125.5
1635	0.3	3.1	0.1	4.69	7.15	24.54	687	0.27	321	-126.6

TUBING INSIDE DIA. CAPACITY (Liters/Ft.): **1/8"** = 0.0024; **3/16"** = 0.0054; **1/4"** = 0.0097; **5/16"** = 0.0151; **3/8"** = 0.0217; **1/2"** = 0.0386; **5/8"** = 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING TIME:
Ryan McLain, Marty Mullis/ Antea Group		1640

FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
# CONTAINERS	VOLUME	PRESERVATIVE USED	
3	40ml	None	VOC's
1	250	Nitric acid	Metals
2	1 L	None	TOX

REMARKS:

NOTES: 1. STABILIZATION CRITERIA FOR THREE CONSECUTIVE WATER QUALITY READINGS

Turbidity:	<10 NTU
Temp.:	<0.5 Degrees C
pH:	<0.1 SU
Specific Conductance:	10%
Drawdown:	<0.5 ft from Initial
Dissolved Oxygen:	<0.5 mg/L

GROUNDWATER SAMPLING LOG

SITE NAME:	Former Hercules Facility	SITE LOCATION:	Brunswick, GA
WELL ID:	MW 52D	DATE: ~~5/16/12~~	5/15/12

PURGING DATA

WELL DIAMETER (inches):	2	WELL SCREEN INTERVAL DEPTH:	79 feet to 89 feet	STATIC DEPTH TO WATER (feet):	4.49	PURGE PUMP TYPE OR BAILER:	SS monsoon

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= 1046 liters + (0.0217 liters/foot X 100 feet) + 0.5 liters = 2.7 liters

TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (liters)	PURGE RATE (L/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISS. OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
1624	2.7	2.7	0.1	4.42	6.60	23.72	8567	1.06	136	-147.9
1627	0.3	3.0	0.1	4.42	6.58	23.81	8602	1.00	68.1	-147.0
1630	0.3	3.3	0.1	4.42	6.58	23.79	8837	0.97	32.2	-145.6
1633	0.3	3.6	0.1	4.42	6.57	23.78	8829	0.96	20.2	-145.3
1636	0.3	3.9	0.1	4.42	6.56	23.68	8957	0.92	15.6	-143.8
1639	0.3	4.2	0.1	4.42	6.61	23.51	9080	0.87	12.8	-128.7
1642	0.3	4.5	0.1	4.42	6.53	23.46	9244	0.81	10.9	-132.1
1645	0.3	4.8	0.1	4.42	6.53	23.50	9196	0.80	9.8	-134.4

TUBING INSIDE DIA. CAPACITY (Liters/Ft.): 1/8" = 0.0024; 3/16" = 0.0054; 1/4" = 0.0097; 5/16" = 0.0151; 3/8" = 0.0217; 1/2" = 0.0386; 5/8" = 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING TIME:
Ryan McLain, Marty Mullis/ Antea Group		1650

FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
# CONTAINERS	VOLUME	PRESERVATIVE USED	
3	40ml	None	VOC's
1	250	Nitric acid	Metals
2	1 L	None	TOX

REMARKS:

NOTES: 1. STABILIZATION CRITERIA FOR THREE CONSECUTIVE WATER QUALITY READINGS

Turbidity:	<10 NTU
Temp.:	<0.5 Degrees C
pH:	<0.1 SU
Specific Conductance:	10%
Drawdown:	<0.5 ft from Initial
Dissolved Oxygen:	<0.5 mg/L

GROUNDWATER SAMPLING LOG

SITE NAME: Former Hercules Brunswick	SITE LOCATION: Brunswick, GA
WELL ID: HP-111-59	DATE:1/29/2013

PURGING DATA

WELL DIAMETER (inches): 4	WELL SCREEN INTERVAL DEPTH: 89 feet to 99 feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER: pump

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= _____liters + (_____liters/foot X _____feet) + _____ liters = _____liters

TIME	VOLUME PURGED (Gal.)	CUMUL. VOLUME PURGED (Gal)	PURGE RATE (Gal/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISS. OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
1725	5	5	1		6.46	27.01	7381	0.08		-219.4
1730	5	10			6.76	26.68	2742	6.89		-99.2
1735	5	15			6.87	26.34	2026	7.48		-88.2
1740	5	20			6.86	26.24	2037	7.61		-89.2
1745	5	25			6.76	26.77	2338	11.49		-94.9
1750	5	30			6.77	26.62	2022	13.55		-82.7
1755	5	35			6.78	26.58	1930	13.57		-80.7

TUBING INSIDE DIA. CAPACITY (Liters/Ft.): **1/8"** = 0.0024; **3/16"** = 0.0054; **1/4"** = 0.0097; **5/16"** = 0.0151; **3/8"** = 0.0217; **1/2"** = 0.0386; **5/8"** = 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Hartford Hight / Antea Group	SAMPLER(S) SIGNATURES: Hartford W. Hight	SAMPLING TIME: 1800
FIELD DECONTAMINATION: Y	FIELD-FILTERED: N FILTER SIZE: ____ µm Filtration Equipment Type: _____	DUPLICATE: N

SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
# CONTAINERS	VOLUME	PRESERVATIVE USED	
		HCL	VOCs 8260B
			Toxaphene, total toxaphene 8081B
			Alpha and Gamma BHC 8081B

REMARKS:

NOTES: 1. STABILIZATION CRITERIA FOR THREE CONSECUTIVE WATER QUALITY READINGS

Turbidity:	<10 NTU
Temp.:	<0.5 Degrees C
pH:	<0.1 SU
Specific Conductance:	10%
Drawdown:	<0.5 ft from Initial
Dissolved Oxygen:	<0.5 mg/L

GROUNDWATER SAMPLING LOG

SITE NAME: Former Hercules Brunswick	SITE LOCATION: Brunswick, GA
WELL ID: HP-111-60A	DATE:1/30/2013

PURGING DATA

WELL DIAMETER (inches): 4	WELL SCREEN INTERVAL DEPTH: 20 feet to 26 feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER: pump

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= _____liters + (_____liters/foot X _____feet) + _____ liters = _____liters

TIME	VOLUME PURGED (Gal.)	CUMUL. VOLUME PURGED (Gal)	PURGE RATE (Gal/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISS. OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
1125	5	5	1		7.28	23.59	6648	2.61		-180.8
1130	5	10			6.89	24.97	14121	0.16		-173.2
1135	5	15			6.90	25.50	14151	0.16		-147.1
1140	5	20			6.91	26.30	14200	0.13		-144.2
1145	5	25			6.84	24.93	15360	0.17		-161.4
1150	5	30			6.84	25.48	15416	0.16		-146.4

TUBING INSIDE DIA. CAPACITY (Liters/Ft.): **1/8"** = 0.0024; **3/16"** = 0.0054; **1/4"** = 0.0097; **5/16"** = 0.0151; **3/8"** = 0.0217; **1/2"** = 0.0386; **5/8"** = 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Hartford Hight / Antea Group	SAMPLER(S) SIGNATURES: Hartford W. Hight	SAMPLING TIME: 1152
FIELD DECONTAMINATION: Y	FIELD-FILTERED: N FILTER SIZE: ____ µm Filtration Equipment Type: _____	DUPLICATE: N

SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
# CONTAINERS	VOLUME	PRESERVATIVE USED	
			Apdx IX VOCs 8260B
			Tech. Toxaphene, total toxaphene 8081B

REMARKS:

NOTES: 1. STABILIZATION CRITERIA FOR THREE CONSECUTIVE WATER QUALITY READINGS

Turbidity: <10 NTU
Temp.: <0.5 Degrees C
pH: <0.1 SU
Specific Conductance: 10%
Drawdown: <0.5 ft from Initial
Dissolved Oxygen: <0.5 mg/L

GROUNDWATER SAMPLING LOG

SITE NAME: Former Hercules Brunswick	SITE LOCATION: Brunswick, GA
WELL ID: HP-111-60B	DATE:1/30/2013

PURGING DATA

WELL DIAMETER (inches): 4	WELL SCREEN INTERVAL DEPTH: 50 feet to 56 feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER: pump

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= _____liters + (_____liters/foot X _____feet) + _____ liters = _____liters

TIME	VOLUME PURGED (Gal.)	CUMUL. VOLUME PURGED (Gal)	PURGE RATE (Gal/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISS. OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
1250	5	5	1		7.71	25.37	1453	3.64		-189.7
1255	5	10			7.71	25.23	1477	3.79		-161.0
1300	5	15			7.52	24.67	1441	6.38		-146.2
1305	5	20			7.32	24.31	1363	5.45		-144.3
1315	5	25			7.04	22.95	807	1.45		-149.7
1320	5	30			7.0	22.86	794	1.8		-140.1
1325	5	35			7.0	22.83	791	1.84		-136.3

TUBING INSIDE DIA. CAPACITY (Liters/Ft.): **1/8"** = 0.0024; **3/16"** = 0.0054; **1/4"** = 0.0097; **5/16"** = 0.0151; **3/8"** = 0.0217; **1/2"** = 0.0386; **5/8"** = 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Hartford Hight / Antea Group	SAMPLER(S) SIGNATURES: Hartford W. Hight	SAMPLING TIME: 1327
FIELD DECONTAMINATION: Y	FIELD-FILTERED: N FILTER SIZE: ____ µm Filtration Equipment Type: _____	DUPLICATE: N

SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
# CONTAINERS	VOLUME	PRESERVATIVE USED	
			Apdx IX Vocs 8260B
			Tech. toxaphene, total toxaphene 8081B

REMARKS:

NOTES: 1. STABILIZATION CRITERIA FOR THREE CONSECUTIVE WATER QUALITY READINGS

Turbidity: <10 NTU
Temp.: <0.5 Degrees C
pH: <0.1 SU
Specific Conductance: 10%
Drawdown: <0.5 ft from Initial
Dissolved Oxygen: <0.5 mg/L

GROUNDWATER SAMPLING LOG

SITE NAME: Former Hercules Brunswick	SITE LOCATION: Brunswick, GA
WELL ID: HP-111-60C	DATE:1/30/2013

PURGING DATA

WELL DIAMETER (inches): 4	WELL SCREEN INTERVAL DEPTH: 78 feet to 86 feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER: pump

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= _____liters + (_____liters/foot X _____feet) + _____ liters = _____liters

TIME	VOLUME PURGED (Gal.)	CUMUL. VOLUME PURGED (Gal)	PURGE RATE (Gal/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISS. OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
1455	5	10	1		6.95	30.77	2211	0.29		-194.6
1500	5	15			9.75	30.56	2196	9.99		-101.2
1505	5	20			6.7	30.35	2362	7.15		-107.1
1510	5	25			6.73	30.01	2414	4.60		-101.3
1515	5	30			6.34	29.5	2414	4.35		-97.8
1520	5	35			6.49	32.76	4867	2.68		-126.3
1525	5	40			6.63	32.29	2675	7.35		-117.9
					5.41	27.94	4778	6.69		-121.2

TUBING INSIDE DIA. CAPACITY (Liters/Ft.): **1/8"** = 0.0024; **3/16"** = 0.0054; **1/4"** = 0.0097; **5/16"** = 0.0151; **3/8"** = 0.0217; **1/2"** = 0.0386; **5/8"** = 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Hartford Hight / Antea Group	SAMPLER(S) SIGNATURES: Hartford W. Hight	SAMPLING TIME: 1532
FIELD DECONTAMINATION: Y	FIELD-FILTERED: N FILTER SIZE: ____ µm Filtration Equipment Type: _____	DUPLICATE: N

SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
# CONTAINERS	VOLUME	PRESERVATIVE USED	
			Apdx IX VOCs 8260B
			Tech. Toxaphene, total toxaphene 8081B
			Alpha and Gamma BHC 8081B

REMARKS:

NOTES: 1. STABILIZATION CRITERIA FOR THREE CONSECUTIVE WATER QUALITY READINGS

Turbidity: <10 NTU
Temp.: <0.5 Degrees C
pH: <0.1 SU
Specific Conductance: 10%
Drawdown: <0.5 ft from Initial
Dissolved Oxygen: <0.5 mg/L

GROUNDWATER SAMPLING LOG

SITE NAME:	Former Hercules Facility	SITE LOCATION:	Brunswick, GA
WELL ID:	MW-55S	DATE:	12-4-13

PURGING DATA

WELL DIAMETER (inches):	2 in.	WELL SCREEN INTERVAL DEPTH:	10 feet to 25 feet	STATIC DEPTH TO WATER (feet):	6.50	PURGE PUMP TYPE OR BAILER:	Purge Pump

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= _____ liters + (.0217 liters/foot X 30 feet) + 0.5 liters = 1.15 liters

TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (liters)	PURGE RATE (L/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (mS/cm)	DISS. OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
1230	1.5	1.5	0.1	6.62	6.95	24.00	13.9	4.41	7.9	5
1233	0.3	1.53	0.1	6.64	6.96	24.01	14.1	4.22	7.7	7
1236	0.3	1.56	0.1	6.66	6.97	24.07	14.1	3.93	7.4	8
1239	0.3	1.59	0.1	6.68	7.00	23.99	14.0	3.66	6.6	3
1242	0.3	1.62	0.1	6.70	7.01	24.04	14.0	3.41	6.0	-5
1245	0.3	1.65	0.1	6.72	7.02	24.09	14.0	3.33	5.8	-12
1248	0.3	1.68	0.1							

TUBING INSIDE DIA. CAPACITY (Liters/Ft.): **1/8"** = 0.0024; **3/16"** = 0.0054; **1/4"** = 0.0097; **5/16"** = 0.0151; **3/8"** = 0.0217; **1/2"** = 0.0386; **5/8"** = 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	Andy Fitzner Antea	SAMPLER(S) SIGNATURES:		SAMPLING TIME:	1246
FIELD DECONTAMINATION:	Y (N)	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type:		DUPLICATE:	Y (N)

SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
# CONTAINERS	VOLUME	PRESERVATIVE USED	
2	125mL	None	8315 - 8315 FORM
1	250mL	Nitric Acid	6020 - 6020 Select Metals
2	1 L	None	8270C - 8270 Select SVOC
2	1 L	None	8081A_8082 - 8081 PST-TOX
3	40mL	Hydrochloric Acid	8260B - 8260 Select VOC

REMARKS:

NOTES: 1. STABILIZATION CRITERIA FOR THREE CONSECUTIVE WATER QUALITY READINGS

Turbidity:	<10 NTU
Temp.:	<0.5 Degrees C
pH:	<0.1 SU
Specific Conductance:	10%
Drawdown:	<0.5 ft from Initial
Dissolved Oxygen:	<0.5 mg/L

GROUNDWATER SAMPLING LOG

SITE NAME: Former Hercules Facility	SITE LOCATION: Brunswick, GA
WELL ID: MW-55 I	DATE: 12-4-13

PURGING DATA

WELL DIAMETER (inches): 2 in.	WELL SCREEN INTERVAL DEPTH: 40 feet to 55 feet	STATIC DEPTH TO WATER (feet): 3.97	PURGE PUMP TYPE OR BAILER: Purge Pump

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.25 liters + (0.0217 liters/foot X 60 feet) + 0.5 liters = 2.05 liters

0.50

TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (liters)	PURGE RATE (L/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (mS/cm)	DISS. OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
1138	4.8	4.8	0.1	4.33	7.80	23.59	0.587	0.89	49.7	-253
1141	0.3	5.1	0.1	4.36	7.77	23.65	0.591	0.84	47.0	-248
1144	0.3	5.4	0.1	4.38	7.65	23.66	0.596	0.82	35.1	-249
1147	0.3	5.7	0.1	4.40	7.63	23.86	0.620	0.80	29.7	-184
1150	0.3	6.0	0.1	4.42	7.59	23.96	0.613	0.82	31.5	-208
1153	0.3	6.3	0.1	4.45	7.57	23.81	0.614	0.84	29.3	-220

TUBING INSIDE DIA. CAPACITY (Liters/Ft.): 1/8" = 0.0024; 3/16" = 0.0054; 1/4" = 0.0097; 5/16" = 0.0151; 3/8" = 0.0217; 1/2" = 0.0386; 5/8" = 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Andy Fitzner Antea	SAMPLER(S) SIGNATURES:	SAMPLING TIME: 1155
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y N FILTER SIZE: ___ µm Filtration Equipment Type:	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
# CONTAINERS	VOLUME	PRESERVATIVE USED	
2	125mL	None	8315 - 8315 FORM
1	250mL	Nitric Acid	6020 - 6020 Select Metals
2	1 L	None	8270C - 8270 Select SVOC
2	1 L	None	8081A_8082 - 8081 PST-TOX
3	40mL	Hydrochloric Acid	8260B - 8260 Select VOC

REMARKS

NOTES: 1. STABILIZATION CRITERIA FOR THREE CONSECUTIVE WATER QUALITY READINGS

Turbidity:	<10 NTU
Temp.:	<0.5 Degrees C
pH:	<0.1 SU
Specific Conductance:	10%
Drawdown:	<0.5 ft from Initial
Dissolved Oxygen:	<0.5 mg/L

GROUNDWATER SAMPLING LOG

SITE NAME: Former Hercules Facility	SITE LOCATION: Brunswick, GA
WELL ID: MW-55 D	DATE: 12-4-13

PURGING DATA

WELL DIAMETER (inches): 2 in	WELL SCREEN INTERVAL DEPTH: 75 feet to 65 feet	STATIC DEPTH TO WATER (feet): 3.8'	PURGE PUMP TYPE OR BAILER: Purge Pump

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= 0.75 liters + (0.0217 liters/foot X 90 feet) + 6.5 liters = 2.7 liters

TIME	VOLUME PURGED (liters)	CUMUL VOLUME PURGED (liters)	PURGE RATE (L/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND (mS/cm)	DISS OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
9:54	3	3	0.2	3.76	6.35	22.91	6.82	2.15	11.4	-137
9:58	0.8	3.8	0.2	3.76	6.34	22.91	6.80	2.07	10.3	-136
1002	0.8	4.6	0.2	3.75	6.34	22.91	6.82	1.96	9.8	-135
1005	0.6	5.2	0.2	3.75	6.34	22.93	6.87	1.90	9.7	-135
1008	0.6	5.8	0.2	3.75	6.34	22.93	6.86	1.83	9.2	-133

TUBING INSIDE DIA. CAPACITY (Liters/Ft.): **1/8"** = 0.0024; **3/16"** = 0.0054; **1/4"** = 0.0097; **5/16"** = 0.0151; **3/8"** = 0.0217; **1/2"** = 0.0386; **5/8"** = 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Andy Fitzner Antea	SAMPLER(S) SIGNATURES:	SAMPLING TIME: 1010
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y N FILTER SIZE: ___ µm Filtration Equipment Type:	DUPLICATE: (Y) N

SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
# CONTAINERS	VOLUME	PRESERVATIVE USED	
2	125mL	None	8315 - 8315 FORM
1	250mL	Nitric Acid	6020 - 6020 Select Metals
2	1 L	None	8270C - 8270 Select SVOC
2	1 L	None	8081A_8082 - 8081 PST-TOX
3	40mL	Hydrochloric Acid	8260B - 8260 Select VOC

REMARKS

NOTES: 1. STABILIZATION CRITERIA FOR THREE CONSECUTIVE WATER QUALITY READINGS

Turbidity:	<10 NTU
Temp.:	<0.5 Degrees C
pH:	<0.1 SU
Specific Conductance:	10%
Drawdown:	<0.5 ft from Initial
Dissolved Oxygen:	<0.5 mg/L

GROUNDWATER SAMPLING LOG

SITE NAME: Former Hercules Facility	SITE LOCATION: Brunswick, GA
WELL ID: MW-11DD	DATE: 7/16/14

PURGING DATA

WELL DIAMETER (inches): 2	WELL SCREEN INTERVAL DEPTH: 81 feet to 91 feet	STATIC DEPTH TO WATER (feet): 5.37	PURGE PUMP TYPE ~~OR BAILER~~: Peristaltic / (Stainless Submersible)

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.7 liters + (0.0217 liters/foot X 97 feet) + 0.5 liters = 3.0 liters

TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (liters)	PURGE RATE (L/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or mS/cm)	DISS. OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
1124	3	3	.5	5.39	6.81	24.38	15.8	1.68	85.6	-126
1134	5	8	.5	5.39	6.65	25.06	15.6	.80	6.3	-160
1139	2.5	10.5	.5	5.39	6.56	26.11	15.4	.71	4.1	-165
1144 ~~EZ 1144~~	2.5	13	.5	5.39	6.57	25.84	15.3	.69	3.3	-169
1147 ~~EZ 1147~~	1.5	14.5	.5	5.39	6.57	25.84	15.3	.69	3.1	-171

TUBING INSIDE DIA. CAPACITY (Liters/Ft.): **1/8"** = 0.0024; **3/16"** = 0.0054; **1/4"** = 0.0097; **5/16"** = 0.0151; **3/8"** = 0.0217; **1/2"** = 0.0386; **5/8"** = 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Edward Zeller / Antaeski	SAMPLER(S) SIGNATURES: EZZ / AH	SAMPLING TIME: 1149
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
# CONTAINERS	VOLUME	PRESERVATIVE USED	
2	125mL	None	8315 - 8315 FORM
1	250mL	Nitric Acid	6020 - 6020 Select Metals
2	125 ~~250mL~~	None	8270C - 8270 Select SVOC
2	125 ~~250mL~~	None	8081A_8082 - 8081 PST-TOX
3	40mL	Hydrochloric Acid	8260B - 8260 Select VOC

REMARKS:
* 1124 High turbidity will continue to collect readings when within range

NOTES: 1. STABILIZATION CRITERIA FOR THREE CONSECUTIVE WATER QUALITY READINGS

Turbidity:	<10 NTU or 3 Consecutive readings within 10% of each other
Temp.:	<0.5 Degrees C
pH:	<0.1 SU
Specific Conductance:	10%
Drawdown:	<0.5 ft from Initial
Dissolved Oxygen:	<0.5 mg/L

GROUNDWATER SAMPLING LOG

SITE NAME: Former Hercules Facility	SITE LOCATION: Brunswick, GA
WELL ID: MW-56D	DATE: 7/16/14

PURGING DATA

WELL DIAMETER (inches): 2	WELL SCREEN INTERVAL DEPTH: 93 feet to 103 feet	STATIC DEPTH TO WATER (feet): 2.89	PURGE PUMP TYPE OR BAILER: Peristaltic / (Stainless Submersible)

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0.3 liters + (0.0217 liters/foot X 108 feet) + 0.5 liters = 3.25 liters

TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (liters)	PURGE RATE (L/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm mS/cm)	DISS. OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
1028	3.25	3.25	.5	2.93	7.32	23.89	11.3	1.38	8.2	-193
1033	2.5	5.75	.5	2.94	7.25	23.95	13.7	0.98	6.4	-168
1038	2.5	8.25	.5	2.94	7.17	24.03	14.6	0.88	2.5	-153
1043	2.5	10.75	.5	2.94	7.08	24.07	14.6	0.83	1.4	-152

TUBING INSIDE DIA. CAPACITY (Liters/Ft.): 1/8" = 0.0024; 3/16" = 0.0054; 1/4" = 0.0097; 5/16" = 0.0151; 3/8" = 0.0217; 1/2" = 0.0386; 5/8" = 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: / AnteaGroup	SAMPLER(S) SIGNATURES: EZQ AH	SAMPLING TIME: 1046
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
# CONTAINERS	VOLUME	PRESERVATIVE USED	
2	125mL	None	8315 - 8315 FORM
1	250mL	Nitric Acid	6020 - 6020 Select Metals
2 ~~1~~	125 ~~250~~mL	None	8270C - 8270 Select SVOC
2	125 ~~250~~mL	None	8081A_8082 - 8081 PST-TOX
3	40mL	Hydrochloric Acid	8260B - 8260 Select VOC

REMARKS:

NOTES: 1. STABILIZATION CRITERIA FOR THREE CONSECUTIVE WATER QUALITY READINGS

Turbidity: <10 NTU or 3 Consecutive readings within 10% of each other
Temp.: <0.5 Degrees C
pH: <0.1 SU
Specific Conductance: 10%
Drawdown: <0.5 ft from Initial
Dissolved Oxygen: <0.5 mg/L

GROUNDWATER SAMPLING LOG

SITE NAME: Former Hercules Facility	SITE LOCATION: Brunswick, GA
WELL ID: MW-57D	DATE: 7/16/14

PURGING DATA

WELL DIAMETER (inches): 2	WELL SCREEN INTERVAL DEPTH: feet to 82 feet 92	STATIC DEPTH TO WATER (feet): 4.34	PURGE PUMP TYPE OR BAILER: Peristaltic / (Stainless Submersible)

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 liters + (0.0217 liters/foot X 97 feet) + 0.5 liters = 3.0 liters

TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (liters)	PURGE RATE (L/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm ~~mS~~/µS/cm)	DISS. OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
0935	3	3	.5	4.39	8.55	24.60	2.67	2.02	9.1	-210
0940	2.5	5.5	.5	4.39	8.04	24.33	6.77	1.39	17.3	-224
0945	2.5	8	.5	4.39	7.95	24.29	8.21	1.12	6.9	-212
0950	2.5	10.5	.5	4.39	7.84	24.29	8.35	1.03	6.0	-211
0955	2.5		.5	4.39	7.82	24.30	8.36	1.09	5.9	-209

TUBING INSIDE DIA. CAPACITY (Liters/Ft.): 1/8" = 0.0024; 3/16" = 0.0054; 1/4" = 0.0097; 5/16" = 0.0151; 3/8" = 0.0217; 1/2" = 0.0386; 5/8" = 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Alex Harrison / Antea	SAMPLER(S) SIGNATURES:	SAMPLING TIME: 0957
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
# CONTAINERS	VOLUME	PRESERVATIVE USED	
2	125mL	None	8315 - 8315 FORM
1	250mL	Nitric Acid	6020 - 6020 Select Metals
2	125 ~~250~~mL	None	8270C - 8270 Select SVOC
2	125 ~~250~~mL	None	8081A_8082 - 8081 PST-TOX
3	40mL	Hydrochloric Acid	8260B - 8260 Select VOC

REMARKS:

NOTES: 1. STABILIZATION CRITERIA FOR THREE CONSECUTIVE WATER QUALITY READINGS

Turbidity:	<10 NTU or 3 Consecutive readings within 10% of each other
Temp.:	<0.5 Degrees C
pH:	<0.1 SU
Specific Conductance:	10%
Drawdown:	<0.5 ft from Initial
Dissolved Oxygen:	<0.5 mg/L

Appendix K

Laboratory Analytical Results

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 680-56360-1

Job Description: Brunswick Phase 3 RFI 3/31-4/1/10

For:
Ashland Inc.
500 Hercules Road
Wilmington, DE 19894

Attention: Timothy Hassett

Approved for release.
Lidya Gulizia
Project Manager I
4/6/2010 6:05 PM

Lidya Gulizia
Project Manager I
lidya.gulizia@testamericainc.com
04/06/2010

cc: Mr. Tony Mancini
Mr. John D Reuscher
Ms. Charlene Rivard
Mr. Derek Rothaupt
Mr. Dean Salisbury

Savannah Certifications and ID #s: A2LA: 0399.01; AL: 41450; ARDEQ: 88-0692; ARDOH; AZ: AZ0741; CA: 03217CA; CO; CT: PH0161; DE; FL: E87052; GA: 803; Guam; HI; IL: 200022; IN; IA: 353; KS: E-10322; KY EPPC: 90084; KY UST; LA DEQ: 30690; LA DHH: LA080008; ME: 2008022; MD: 250; MA: M-GA006; MI: 9925; MS; NFESC: 249; NV: GA00006; NJ: GA769; NM; NY: 10842; NC DWQ: 269; NC DHHS: 13701; PA: 68-00474; PR: GA00006; RI: LAO00244; SC: 98001001; TN: TN0296; TX: T104704185; USEPA: GA00006; VT: VT-87052; VA: 00302; WA; WV DEP: 094; WV DHHR: 9950 C; WI DNR: 999819810; WY/EPAR8: 8TMS-Q

TestAmerica Laboratories, Inc.
TestAmerica Savannah 5102 LaRoche Avenue, Savannah, GA 31404
Tel (912) 354-7858 Fax (912) 352-0165 www.testamericainc.com

ACCREDITED IN ACCORDANCE WITH nelac

Receipt
All samples were received in good condition within temperature requirements.

GC/MS VOA
Method(s) 8260B: The following sample(s) was diluted due to the nature of the sample matrix: HP-111-58A (680-56360-9), HP-111-58B (680-56360-10). Elevated reporting limits (RLs) are provided.

Method(s) 8260B: The following sample was diluted due to the abundance of non-target analytes: HP-111-57-TW (680-56360-8). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

GC Semi VOA
Method(s) 8081A_8082: Two surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample(s) contained an allowable number of surrogate compounds outside limits: HP-111-54B (680-56360-2), HP-111-54C (680-56360-3), HP-111-57B (680-56360-6), HP-111-57C (680-56360-7). These results have been reported and qualified.

No other analytical or quality issues were noted.

Comments
No additional comments.

METHOD SUMMARY

Client: Ashland Inc. Job Number: 680-56360-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL SAV	SW846 8260B	
Purge and Trap	TAL SAV		SW846 5030B
Organochlorine Pesticides & PCBs (GC)	TAL SAV	SW846 8081A_8082	
Liquid-Liquid Extraction (Continuous)	TAL SAV		SW846 3520C
Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography	TAL SAV	SW846 8081B/8082A	
Liquid-Liquid Extraction (Continuous)	TAL SAV		SW846 3520C

Lab References:

TAL SAV = TestAmerica Savannah

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Ashland Inc. Job Number: 680-56360-1

Method	Analyst	Analyst ID
SW846 8260B	Bearden, Robert	RB
SW846 8081A_8082	Kellar, Joshua	JK
SW846 8081B/8082A	Kellar, Joshua	JK

SAMPLE SUMMARY

Client: Ashland Inc. Job Number: 680-56360-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-56360-1	HP-111-54A	Water	03/31/2010 1040	04/01/2010 1510
680-56360-2	HP-111-54B	Water	03/31/2010 1110	04/01/2010 1510
680-56360-3	HP-111-54C	Water	03/31/2010 1330	04/01/2010 1510
680-56360-4	HP-111-55C	Water	03/31/2010 0800	04/01/2010 1510
680-56360-5	HP-111-57A	Water	03/31/2010 1515	04/01/2010 1510
680-56360-6	HP-111-57B	Water	03/31/2010 1630	04/01/2010 1510
680-56360-7	HP-111-57C	Water	03/31/2010 1700	04/01/2010 1510
680-56360-8	HP-111-57-TW	Water	04/01/2010 1000	04/01/2010 1510
680-56360-9	HP-111-58A	Water	04/01/2010 0815	04/01/2010 1510
680-56360-10	HP-111-58B	Water	04/01/2010 0840	04/01/2010 1510
680-56360-11	HP-111-58C	Water	04/01/2010 0915	04/01/2010 1510
680-56360-12	Trip Blank 031010	Water	04/01/2010 0000	04/01/2010 1510
680-56360-13	HP-11-FB-2	Water	04/01/2010 1100	04/01/2010 1510

Client: Ashland Inc. Job Number: 680-56360-1

Client Sample ID: **HP-111-54A**

Lab Sample ID: 680-56360-1 Date Sampled: 03/31/2010 1040
Client Matrix: Water Date Received: 04/01/2010 1510

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-164831 Instrument ID: MSO
Preparation: 5030B Lab File ID: o0405.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 04/04/2010 1259 Final Weight/Volume: 5 mL
Date Prepared: 04/04/2010 1259

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	8.1	J	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	29		0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.7		0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	2.3		0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	0.53	J	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-56360-1

Client Sample ID: **HP-111-54A**

Lab Sample ID: 680-56360-1 Date Sampled: 03/31/2010 1040
Client Matrix: Water Date Received: 04/01/2010 1510

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-164831 Instrument ID: MSO
Preparation: 5030B Lab File ID: o0405.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 04/04/2010 1259 Final Weight/Volume: 5 mL
Date Prepared: 04/04/2010 1259

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	0.91	J	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	106		75 - 120
Dibromofluoromethane	114		75 - 121
Toluene-d8 (Surr)	103		75 - 120

Client: Ashland Inc. Job Number: 680-56360-1

Client Sample ID: **HP-111-54B**

Lab Sample ID: 680-56360-2 Date Sampled: 03/31/2010 1110
Client Matrix: Water Date Received: 04/01/2010 1510

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-164798 Instrument ID: MSO
Preparation: 5030B Lab File ID: o0389.d
Dilution: 10 Initial Weight/Volume: 5 mL
Date Analyzed: 04/02/2010 1715 Final Weight/Volume: 5 mL
Date Prepared: 04/02/2010 1715

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	160	J	50	250
Acetonitrile	400	U	100	400
Acrolein	200	U	74	200
Acrylonitrile	200	U	72	200
Benzene	5500	E	2.5	10
Bromoform	10	U	5.0	10
Bromomethane	10	U	8.0	10
2-Butanone (MEK)	14	J	10	100
Carbon disulfide	20	U	6.0	20
Carbon tetrachloride	10	U	5.0	10
Chlorobenzene	690		2.5	10
2-Chloro-1,3-butadiene	10	U	3.0	10
Chlorodibromomethane	10	U	1.0	10
Chloroethane	10	U	10	10
Chloroform	420		1.4	10
Chloromethane	10	U	3.3	10
3-Chloro-1-propene	10	U	2.0	10
cis-1,3-Dichloropropene	10	U	1.1	10
1,2-Dibromo-3-Chloropropane	10	U	4.4	10
Dibromomethane	10	U	2.0	10
Dichlorobromomethane	10	U	2.5	10
Dichlorodifluoromethane	10	U	2.5	10
1,1-Dichloroethane	10	U	2.5	10
1,2-Dichloroethane	10	U	1.0	10
1,1-Dichloroethene	2.9	J	1.1	10
1,2-Dichloropropane	10	U	1.3	10
Ethylbenzene	270		1.1	10
Ethylene Dibromide	10	U	2.5	10
Ethyl methacrylate	10	U	2.5	10
2-Hexanone	100	U	10	100
Iodomethane	50	U	10	50
Isobutyl alcohol	400	U	110	400
Methacrylonitrile	200	U	33	200
Methylene Chloride	65		10	50
Methyl methacrylate	10	U	4.8	10
4-Methyl-2-pentanone (MIBK)	67	J	10	100
Pentachloroethane	50	U	12	50
Propionitrile	200	U	46	200
Styrene	10	U	1.1	10
1,1,1,2-Tetrachloroethane	10	U	3.3	10
1,1,2,2-Tetrachloroethane	10	U	1.8	10
Tetrachloroethene	2.5	J	1.5	10
Toluene	470		3.3	10
trans-1,4-Dichloro-2-butene	20	U	5.0	20
trans-1,2-Dichloroethene	10	U	2.0	10
trans-1,3-Dichloropropene	10	U	2.1	10

Client: Ashland Inc. Job Number: 680-56360-1

Client Sample ID: **HP-111-54B**

Lab Sample ID: 680-56360-2 Date Sampled: 03/31/2010 1110
Client Matrix: Water Date Received: 04/01/2010 1510

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-164798 Instrument ID: MSO
Preparation: 5030B Lab File ID: o0389.d
Dilution: 10 Initial Weight/Volume: 5 mL
Date Analyzed: 04/02/2010 1715 Final Weight/Volume: 5 mL
Date Prepared: 04/02/2010 1715

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	10	U	5.0	10
1,1,2-Trichloroethane	10	U	1.3	10
Trichloroethene	10	U	1.3	10
Trichlorofluoromethane	10	U	2.5	10
1,2,3-Trichloropropane	10	U	4.1	10
Vinyl acetate	20	U	2.8	20
Vinyl chloride	8.8	J	1.8	10
Xylenes, Total	44		2.0	20

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	109		75 - 120
Dibromofluoromethane	102		75 - 121
Toluene-d8 (Surr)	105		75 - 120

Client: Ashland Inc. Job Number: 680-56360-1

Client Sample ID: **HP-111-54B**

Lab Sample ID: 680-56360-2 Date Sampled: 03/31/2010 1110
Client Matrix: Water Date Received: 04/01/2010 1510

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-164831		Instrument ID:	MSO
Preparation:	5030B			Lab File ID:	o0411.d
Dilution:	50			Initial Weight/Volume:	5 mL
Date Analyzed:	04/04/2010 1427	Run Type: DL		Final Weight/Volume:	5 mL
Date Prepared:	04/04/2010 1427				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	270	J D	250	1200
Acetonitrile	2000	U	500	2000
Acrolein	1000	U	370	1000
Acrylonitrile	1000	U	360	1000
Benzene	8400	D	12	50
Bromoform	50	U	25	50
Bromomethane	50	U	40	50
2-Butanone (MEK)	500	U	50	500
Carbon disulfide	100	U	30	100
Carbon tetrachloride	50	U	25	50
Chlorobenzene	650	D	12	50
2-Chloro-1,3-butadiene	50	U	15	50
Chlorodibromomethane	50	U	5.0	50
Chloroethane	50	U	50	50
Chloroform	320	D	7.0	50
Chloromethane	50	U	16	50
3-Chloro-1-propene	50	U	10	50
cis-1,3-Dichloropropene	50	U	5.5	50
1,2-Dibromo-3-Chloropropane	50	U	22	50
Dibromomethane	50	U	10	50
Dichlorobromomethane	50	U	12	50
Dichlorodifluoromethane	50	U	12	50
1,1-Dichloroethane	50	U	12	50
1,2-Dichloroethane	50	U	5.0	50
1,1-Dichloroethene	50	U	5.5	50
1,2-Dichloropropane	50	U	6.5	50
Ethylbenzene	270	D	5.5	50
Ethylene Dibromide	50	U	12	50
Ethyl methacrylate	50	U	12	50
2-Hexanone	500	U	50	500
Iodomethane	250	U	50	250
Isobutyl alcohol	2000	U	550	2000
Methacrylonitrile	1000	U	160	1000
Methylene Chloride	71	J D	50	250
Methyl methacrylate	50	U	24	50
4-Methyl-2-pentanone (MIBK)	57	J D	50	500
Pentachloroethane	250	U	60	250
Propionitrile	1000	U	230	1000
Styrene	50	U	5.5	50
1,1,1,2-Tetrachloroethane	50	U	16	50
1,1,2,2-Tetrachloroethane	50	U	9.0	50
Tetrachloroethene	50	U	7.5	50
Toluene	380	D	16	50
trans-1,4-Dichloro-2-butene	100	U	25	100
trans-1,2-Dichloroethene	50	U	10	50
trans-1,3-Dichloropropene	50	U	10	50

Client: Ashland Inc. Job Number: 680-56360-1

Client Sample ID: **HP-111-54B**

Lab Sample ID: 680-56360-2 Date Sampled: 03/31/2010 1110
Client Matrix: Water Date Received: 04/01/2010 1510

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-164831		Instrument ID:	MSO
Preparation:	5030B			Lab File ID:	o0411.d
Dilution:	50			Initial Weight/Volume:	5 mL
Date Analyzed:	04/04/2010 1427	Run Type: DL		Final Weight/Volume:	5 mL
Date Prepared:	04/04/2010 1427				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	50	U	25	50
1,1,2-Trichloroethane	50	U	6.5	50
Trichloroethene	50	U	6.5	50
Trichlorofluoromethane	50	U	12	50
1,2,3-Trichloropropane	50	U	20	50
Vinyl acetate	100	U	14	100
Vinyl chloride	50	U	9.0	50
Xylenes, Total	54	J D	10	100

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	104		75 - 120
Dibromofluoromethane	110		75 - 121
Toluene-d8 (Surr)	104		75 - 120

Client: Ashland Inc. Job Number: 680-56360-1

Client Sample ID: **HP-111-54C**

Lab Sample ID: 680-56360-3 Date Sampled: 03/31/2010 1330
Client Matrix: Water Date Received: 04/01/2010 1510

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-164798 Instrument ID: MSO
Preparation: 5030B Lab File ID: o0391.d
Dilution: 100 Initial Weight/Volume: 5 mL
Date Analyzed: 04/02/2010 1744 Final Weight/Volume: 5 mL
Date Prepared: 04/02/2010 1744

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	6900		500	2500
Acetonitrile	4000	U	1000	4000
Acrolein	2000	U	740	2000
Acrylonitrile	2000	U	720	2000
Benzene	4800		25	100
Bromoform	100	U	50	100
Bromomethane	100	U	80	100
2-Butanone (MEK)	1000	U	100	1000
Carbon disulfide	92	J	60	200
Carbon tetrachloride	100	U	50	100
Chlorobenzene	4500		25	100
2-Chloro-1,3-butadiene	100	U	30	100
Chlorodibromomethane	100	U	10	100
Chloroethane	100	U	100	100
Chloroform	20000		14	100
Chloromethane	100	U	33	100
3-Chloro-1-propene	100	U	20	100
cis-1,3-Dichloropropene	100	U	11	100
1,2-Dibromo-3-Chloropropane	100	U	44	100
Dibromomethane	100	U	20	100
Dichlorobromomethane	100	U	25	100
Dichlorodifluoromethane	100	U	25	100
1,1-Dichloroethane	100	U	25	100
1,2-Dichloroethane	100	U	10	100
1,1-Dichloroethene	100	U	11	100
1,2-Dichloropropane	100	U	13	100
Ethylbenzene	110		11	100
Ethylene Dibromide	100	U	25	100
Ethyl methacrylate	100	U	25	100
2-Hexanone	1000	U	100	1000
Iodomethane	500	U	100	500
Isobutyl alcohol	4000	U	1100	4000
Methacrylonitrile	2000	U	330	2000
Methylene Chloride	19000		100	500
Methyl methacrylate	100	U	48	100
4-Methyl-2-pentanone (MIBK)	470	J	100	1000
Pentachloroethane	500	U	120	500
Propionitrile	2000	U	460	2000
Styrene	100	U	11	100
1,1,1,2-Tetrachloroethane	100	U	33	100
1,1,2,2-Tetrachloroethane	100	U	18	100
Tetrachloroethene	100	U	15	100
Toluene	790		33	100
trans-1,4-Dichloro-2-butene	200	U	50	200
trans-1,2-Dichloroethene	100	U	20	100
trans-1,3-Dichloropropene	100	U	21	100

Client: Ashland Inc. Job Number: 680-56360-1

Client Sample ID: **HP-111-54C**

Lab Sample ID: 680-56360-3 Date Sampled: 03/31/2010 1330
Client Matrix: Water Date Received: 04/01/2010 1510

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-164798 Instrument ID: MSO
Preparation: 5030B Lab File ID: o0391.d
Dilution: 100 Initial Weight/Volume: 5 mL
Date Analyzed: 04/02/2010 1744 Final Weight/Volume: 5 mL
Date Prepared: 04/02/2010 1744

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	100	U	50	100
1,1,2-Trichloroethane	100	U	13	100
Trichloroethene	100	U	13	100
Trichlorofluoromethane	100	U	25	100
1,2,3-Trichloropropane	100	U	41	100
Vinyl acetate	200	U	28	200
Vinyl chloride	100	U	18	100
Xylenes, Total	200	U	20	200

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	105		75 - 120
Dibromofluoromethane	109		75 - 121
Toluene-d8 (Surr)	105		75 - 120

Client: Ashland Inc. Job Number: 680-56360-1

Client Sample ID: **HP-111-55C**

Lab Sample ID: 680-56360-4 Date Sampled: 03/31/2010 0800
Client Matrix: Water Date Received: 04/01/2010 1510

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-164831 Instrument ID: MSO
Preparation: 5030B Lab File ID: o0409.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 04/04/2010 1358 Final Weight/Volume: 5 mL
Date Prepared: 04/04/2010 1358

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	20	J	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	99		0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	2.4	J	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	83		0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	0.40	J	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	0.71	J	0.13	1.0
Ethylbenzene	46		0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	7.0		0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-56360-1

Client Sample ID: **HP-111-55C**

Lab Sample ID: 680-56360-4 Date Sampled: 03/31/2010 0800
Client Matrix: Water Date Received: 04/01/2010 1510

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-164831 Instrument ID: MSO
Preparation: 5030B Lab File ID: o0409.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 04/04/2010 1358 Final Weight/Volume: 5 mL
Date Prepared: 04/04/2010 1358

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	67		0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	99		75 - 120
Dibromofluoromethane	110		75 - 121
Toluene-d8 (Surr)	102		75 - 120

Client: Ashland Inc. Job Number: 680-56360-1

Client Sample ID: **HP-111-57A**

Lab Sample ID: 680-56360-5 Date Sampled: 03/31/2010 1515
Client Matrix: Water Date Received: 04/01/2010 1510

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-164798 Instrument ID: MSO
Preparation: 5030B Lab File ID: o0395.d
Dilution: 50 Initial Weight/Volume: 5 mL
Date Analyzed: 04/02/2010 1843 Final Weight/Volume: 5 mL
Date Prepared: 04/02/2010 1843

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	1200	J	250	1200
Acetonitrile	2000	U	500	2000
Acrolein	1000	U	370	1000
Acrylonitrile	1000	U	360	1000
Benzene	560		12	50
Bromoform	50	U	25	50
Bromomethane	50	U	40	50
2-Butanone (MEK)	180	J	50	500
Carbon disulfide	35	J	30	100
Carbon tetrachloride	50	U	25	50
Chlorobenzene	20	J	12	50
2-Chloro-1,3-butadiene	50	U	15	50
Chlorodibromomethane	50	U	5.0	50
Chloroethane	50	U	50	50
Chloroform	50	U	7.0	50
Chloromethane	50	U	16	50
3-Chloro-1-propene	50	U	10	50
cis-1,3-Dichloropropene	50	U	5.5	50
1,2-Dibromo-3-Chloropropane	50	U	22	50
Dibromomethane	50	U	10	50
Dichlorobromomethane	50	U	12	50
Dichlorodifluoromethane	50	U	12	50
1,1-Dichloroethane	50	U	12	50
1,2-Dichloroethane	50	U	5.0	50
1,1-Dichloroethene	50	U	5.5	50
1,2-Dichloropropane	50	U	6.5	50
Ethylbenzene	540		5.5	50
Ethylene Dibromide	50	U	12	50
Ethyl methacrylate	50	U	12	50
2-Hexanone	500	U	50	500
Iodomethane	250	U	50	250
Isobutyl alcohol	2000	U	550	2000
Methacrylonitrile	1000	U	160	1000
Methylene Chloride	250	U	50	250
Methyl methacrylate	50	U	24	50
4-Methyl-2-pentanone (MIBK)	1400		50	500
Pentachloroethane	250	U	60	250
Propionitrile	1000	U	230	1000
Styrene	50	U	5.5	50
1,1,1,2-Tetrachloroethane	50	U	16	50
1,1,2,2-Tetrachloroethane	50	U	9.0	50
Tetrachloroethene	50	U	7.5	50
Toluene	16000	E	16	50
trans-1,4-Dichloro-2-butene	100	U	25	100
trans-1,2-Dichloroethene	50	U	10	50
trans-1,3-Dichloropropene	50	U	10	50

Client: Ashland Inc. Job Number: 680-56360-1

Client Sample ID: **HP-111-57A**

Lab Sample ID: 680-56360-5 Date Sampled: 03/31/2010 1515
Client Matrix: Water Date Received: 04/01/2010 1510

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-164798 Instrument ID: MSO
Preparation: 5030B Lab File ID: o0395.d
Dilution: 50 Initial Weight/Volume: 5 mL
Date Analyzed: 04/02/2010 1843 Final Weight/Volume: 5 mL
Date Prepared: 04/02/2010 1843

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	50	U	25	50
1,1,2-Trichloroethane	50	U	6.5	50
Trichloroethene	50	U	6.5	50
Trichlorofluoromethane	50	U	12	50
1,2,3-Trichloropropane	50	U	20	50
Vinyl acetate	100	U	14	100
Vinyl chloride	50	U	9.0	50
Xylenes, Total	190		10	100

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	103		75 - 120
Dibromofluoromethane	105		75 - 121
Toluene-d8 (Surr)	106		75 - 120

Client: Ashland Inc. Job Number: 680-56360-1

Client Sample ID: **HP-111-57A**

Lab Sample ID: 680-56360-5 Date Sampled: 03/31/2010 1515
Client Matrix: Water Date Received: 04/01/2010 1510

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-164831		Instrument ID:	MSO
Preparation:	5030B			Lab File ID:	o0413.d
Dilution:	200			Initial Weight/Volume:	5 mL
Date Analyzed:	04/04/2010 1456	Run Type: DL		Final Weight/Volume:	5 mL
Date Prepared:	04/04/2010 1456				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	1500	J D	1000	5000
Acetonitrile	8000	U	2000	8000
Acrolein	4000	U	1500	4000
Acrylonitrile	4000	U	1400	4000
Benzene	570	D	50	200
Bromoform	200	U	100	200
Bromomethane	200	U	160	200
2-Butanone (MEK)	2000	U	200	2000
Carbon disulfide	400	U	120	400
Carbon tetrachloride	200	U	100	200
Chlorobenzene	200	U	50	200
2-Chloro-1,3-butadiene	200	U	60	200
Chlorodibromomethane	200	U	20	200
Chloroethane	200	U	200	200
Chloroform	200	U	28	200
Chloromethane	200	U	66	200
3-Chloro-1-propene	200	U	40	200
cis-1,3-Dichloropropene	200	U	22	200
1,2-Dibromo-3-Chloropropane	200	U	88	200
Dibromomethane	200	U	40	200
Dichlorobromomethane	200	U	50	200
Dichlorodifluoromethane	200	U	50	200
1,1-Dichloroethane	200	U	50	200
1,2-Dichloroethane	200	U	20	200
1,1-Dichloroethene	200	U	22	200
1,2-Dichloropropane	200	U	26	200
Ethylbenzene	560	D	22	200
Ethylene Dibromide	200	U	50	200
Ethyl methacrylate	200	U	50	200
2-Hexanone	2000	U	200	2000
Iodomethane	1000	U	200	1000
Isobutyl alcohol	8000	U	2200	8000
Methacrylonitrile	4000	U	660	4000
Methylene Chloride	1000	U	200	1000
Methyl methacrylate	200	U	96	200
4-Methyl-2-pentanone (MIBK)	1200	J D	200	2000
Pentachloroethane	1000	U	240	1000
Propionitrile	4000	U	920	4000
Styrene	200	U	22	200
1,1,1,2-Tetrachloroethane	200	U	66	200
1,1,2,2-Tetrachloroethane	200	U	36	200
Tetrachloroethene	200	U	30	200
Toluene	17000	D	66	200
trans-1,4-Dichloro-2-butene	400	U	100	400
trans-1,2-Dichloroethene	200	U	40	200
trans-1,3-Dichloropropene	200	U	42	200

Client: Ashland Inc. Job Number: 680-56360-1

Client Sample ID: **HP-111-57A**

Lab Sample ID: 680-56360-5 Date Sampled: 03/31/2010 1515
Client Matrix: Water Date Received: 04/01/2010 1510

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-164831		Instrument ID:	MSO
Preparation:	5030B			Lab File ID:	o0413.d
Dilution:	200			Initial Weight/Volume:	5 mL
Date Analyzed:	04/04/2010 1456	Run Type: DL		Final Weight/Volume:	5 mL
Date Prepared:	04/04/2010 1456				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	200	U	100	200
1,1,2-Trichloroethane	200	U	26	200
Trichloroethene	200	U	26	200
Trichlorofluoromethane	200	U	50	200
1,2,3-Trichloropropane	200	U	82	200
Vinyl acetate	400	U	56	400
Vinyl chloride	200	U	36	200
Xylenes, Total	200	J D	40	400

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	105		75 - 120
Dibromofluoromethane	111		75 - 121
Toluene-d8 (Surr)	106		75 - 120

Client: Ashland Inc. Job Number: 680-56360-1

Client Sample ID: **HP-111-57B**

Lab Sample ID: 680-56360-6 Date Sampled: 03/31/2010 1630
Client Matrix: Water Date Received: 04/01/2010 1510

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-164798 Instrument ID: MSO
Preparation: 5030B Lab File ID: o0397.d
Dilution: 100 Initial Weight/Volume: 5 mL
Date Analyzed: 04/02/2010 1913 Final Weight/Volume: 5 mL
Date Prepared: 04/02/2010 1913

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	10000		500	2500
Acetonitrile	4000	U	1000	4000
Acrolein	2000	U	740	2000
Acrylonitrile	2000	U	720	2000
Benzene	7000		25	100
Bromoform	100	U	50	100
Bromomethane	100	U	80	100
2-Butanone (MEK)	270	J	100	1000
Carbon disulfide	200	U	60	200
Carbon tetrachloride	100	U	50	100
Chlorobenzene	1300		25	100
2-Chloro-1,3-butadiene	100	U	30	100
Chlorodibromomethane	100	U	10	100
Chloroethane	100	U	100	100
Chloroform	66000	E	14	100
Chloromethane	100	U	33	100
3-Chloro-1-propene	100	U	20	100
cis-1,3-Dichloropropene	100	U	11	100
1,2-Dibromo-3-Chloropropane	100	U	44	100
Dibromomethane	100	U	20	100
Dichlorobromomethane	100	U	25	100
Dichlorodifluoromethane	100	U	25	100
1,1-Dichloroethane	100	U	25	100
1,2-Dichloroethane	100	U	10	100
1,1-Dichloroethene	27	J	11	100
1,2-Dichloropropane	100	U	13	100
Ethylbenzene	110		11	100
Ethylene Dibromide	100	U	25	100
Ethyl methacrylate	100	U	25	100
2-Hexanone	1000	U	100	1000
Iodomethane	500	U	100	500
Isobutyl alcohol	4000	U	1100	4000
Methacrylonitrile	2000	U	330	2000
Methylene Chloride	9600		100	500
Methyl methacrylate	100	U	48	100
4-Methyl-2-pentanone (MIBK)	4300		100	1000
Pentachloroethane	500	U	120	500
Propionitrile	2000	U	460	2000
Styrene	100	U	11	100
1,1,1,2-Tetrachloroethane	100	U	33	100
1,1,2,2-Tetrachloroethane	100	U	18	100
Tetrachloroethene	100	U	15	100
Toluene	690		33	100
trans-1,4-Dichloro-2-butene	200	U	50	200
trans-1,2-Dichloroethene	100	U	20	100
trans-1,3-Dichloropropene	100	U	21	100

Client: Ashland Inc. Job Number: 680-56360-1

Client Sample ID: **HP-111-57B**

Lab Sample ID: 680-56360-6 Date Sampled: 03/31/2010 1630
Client Matrix: Water Date Received: 04/01/2010 1510

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-164798 Instrument ID: MSO
Preparation: 5030B Lab File ID: o0397.d
Dilution: 100 Initial Weight/Volume: 5 mL
Date Analyzed: 04/02/2010 1913 Final Weight/Volume: 5 mL
Date Prepared: 04/02/2010 1913

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	100	U	50	100
1,1,2-Trichloroethane	100	U	13	100
Trichloroethene	100	U	13	100
Trichlorofluoromethane	100	U	25	100
1,2,3-Trichloropropane	100	U	41	100
Vinyl acetate	200	U	28	200
Vinyl chloride	100	U	18	100
Xylenes, Total	52	J	20	200

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	103		75 - 120
Dibromofluoromethane	103		75 - 121
Toluene-d8 (Surr)	105		75 - 120

Client: Ashland Inc. Job Number: 680-56360-1

Client Sample ID: **HP-111-57B**

Lab Sample ID: 680-56360-6 Date Sampled: 03/31/2010 1630
Client Matrix: Water Date Received: 04/01/2010 1510

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-164831		Instrument ID:	MSO
Preparation:	5030B			Lab File ID:	o0415.d
Dilution:	1000			Initial Weight/Volume:	5 mL
Date Analyzed:	04/04/2010 1526	Run Type: DL		Final Weight/Volume:	5 mL
Date Prepared:	04/04/2010 1526				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	9400	J D	5000	25000
Acetonitrile	40000	U	10000	40000
Acrolein	20000	U	7400	20000
Acrylonitrile	20000	U	7200	20000
Benzene	7000	D	250	1000
Bromoform	1000	U	500	1000
Bromomethane	1000	U	800	1000
2-Butanone (MEK)	10000	U	1000	10000
Carbon disulfide	2000	U	600	2000
Carbon tetrachloride	1000	U	500	1000
Chlorobenzene	1300	D	250	1000
2-Chloro-1,3-butadiene	1000	U	300	1000
Chlorodibromomethane	1000	U	100	1000
Chloroethane	1000	U	1000	1000
Chloroform	82000	D	140	1000
Chloromethane	1000	U	330	1000
3-Chloro-1-propene	1000	U	200	1000
cis-1,3-Dichloropropene	1000	U	110	1000
1,2-Dibromo-3-Chloropropane	1000	U	440	1000
Dibromomethane	1000	U	200	1000
Dichlorobromomethane	1000	U	250	1000
Dichlorodifluoromethane	1000	U	250	1000
1,1-Dichloroethane	1000	U	250	1000
1,2-Dichloroethane	1000	U	100	1000
1,1-Dichloroethene	1000	U	110	1000
1,2-Dichloropropane	1000	U	130	1000
Ethylbenzene	150	J D	110	1000
Ethylene Dibromide	1000	U	250	1000
Ethyl methacrylate	1000	U	250	1000
2-Hexanone	10000	U	1000	10000
Iodomethane	5000	U	1000	5000
Isobutyl alcohol	40000	U	11000	40000
Methacrylonitrile	20000	U	3300	20000
Methylene Chloride	9500	D	1000	5000
Methyl methacrylate	1000	U	480	1000
4-Methyl-2-pentanone (MIBK)	3500	J D	1000	10000
Pentachloroethane	5000	U	1200	5000
Propionitrile	20000	U	4600	20000
Styrene	1000	U	110	1000
1,1,1,2-Tetrachloroethane	1000	U	330	1000
1,1,2,2-Tetrachloroethane	1000	U	180	1000
Tetrachloroethene	1000	U	150	1000
Toluene	780	J D	330	1000
trans-1,4-Dichloro-2-butene	2000	U	500	2000
trans-1,2-Dichloroethene	1000	U	200	1000
trans-1,3-Dichloropropene	1000	U	210	1000

Client: Ashland Inc. Job Number: 680-56360-1

Client Sample ID: **HP-111-57B**

Lab Sample ID: 680-56360-6 Date Sampled: 03/31/2010 1630
Client Matrix: Water Date Received: 04/01/2010 1510

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-164831		Instrument ID:	MSO
Preparation:	5030B			Lab File ID:	o0415.d
Dilution:	1000			Initial Weight/Volume:	5 mL
Date Analyzed:	04/04/2010 1526	Run Type: DL		Final Weight/Volume:	5 mL
Date Prepared:	04/04/2010 1526				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1000	U	500	1000
1,1,2-Trichloroethane	1000	U	130	1000
Trichloroethene	1000	U	130	1000
Trichlorofluoromethane	1000	U	250	1000
1,2,3-Trichloropropane	1000	U	410	1000
Vinyl acetate	2000	U	280	2000
Vinyl chloride	1000	U	180	1000
Xylenes, Total	2000	U	200	2000

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	102		75 - 120
Dibromofluoromethane	108		75 - 121
Toluene-d8 (Surr)	104		75 - 120

Client: Ashland Inc. Job Number: 680-56360-1

Client Sample ID: **HP-111-57C**

Lab Sample ID: 680-56360-7 Date Sampled: 03/31/2010 1700
Client Matrix: Water Date Received: 04/01/2010 1510

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-164798 Instrument ID: MSO
Preparation: 5030B Lab File ID: o0399.d
Dilution: 100 Initial Weight/Volume: 5 mL
Date Analyzed: 04/02/2010 1943 Final Weight/Volume: 5 mL
Date Prepared: 04/02/2010 1943

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	6100		500	2500
Acetonitrile	4000	U	1000	4000
Acrolein	2000	U	740	2000
Acrylonitrile	2000	U	720	2000
Benzene	3400		25	100
Bromoform	100	U	50	100
Bromomethane	100	U	80	100
2-Butanone (MEK)	180	J	100	1000
Carbon disulfide	200	U	60	200
Carbon tetrachloride	100	U	50	100
Chlorobenzene	4300		25	100
2-Chloro-1,3-butadiene	100	U	30	100
Chlorodibromomethane	100	U	10	100
Chloroethane	100	U	100	100
Chloroform	42000	E	14	100
Chloromethane	100	U	33	100
3-Chloro-1-propene	100	U	20	100
cis-1,3-Dichloropropene	100	U	11	100
1,2-Dibromo-3-Chloropropane	100	U	44	100
Dibromomethane	100	U	20	100
Dichlorobromomethane	100	U	25	100
Dichlorodifluoromethane	100	U	25	100
1,1-Dichloroethane	100	U	25	100
1,2-Dichloroethane	100	U	10	100
1,1-Dichloroethene	100	U	11	100
1,2-Dichloropropane	100	U	13	100
Ethylbenzene	100	U	11	100
Ethylene Dibromide	100	U	25	100
Ethyl methacrylate	100	U	25	100
2-Hexanone	1000	U	100	1000
Iodomethane	500	U	100	500
Isobutyl alcohol	4000	U	1100	4000
Methacrylonitrile	2000	U	330	2000
Methylene Chloride	28000	E	100	500
Methyl methacrylate	100	U	48	100
4-Methyl-2-pentanone (MIBK)	800	J	100	1000
Pentachloroethane	500	U	120	500
Propionitrile	2000	U	460	2000
Styrene	100	U	11	100
1,1,1,2-Tetrachloroethane	100	U	33	100
1,1,2,2-Tetrachloroethane	100	U	18	100
Tetrachloroethene	100	U	15	100
Toluene	170		33	100
trans-1,4-Dichloro-2-butene	200	U	50	200
trans-1,2-Dichloroethene	100	U	20	100
trans-1,3-Dichloropropene	100	U	21	100

Client: Ashland Inc. Job Number: 680-56360-1

Client Sample ID: **HP-111-57C**

Lab Sample ID: 680-56360-7 Date Sampled: 03/31/2010 1700
Client Matrix: Water Date Received: 04/01/2010 1510

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-164798 Instrument ID: MSO
Preparation: 5030B Lab File ID: o0399.d
Dilution: 100 Initial Weight/Volume: 5 mL
Date Analyzed: 04/02/2010 1943 Final Weight/Volume: 5 mL
Date Prepared: 04/02/2010 1943

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	100	U	50	100
1,1,2-Trichloroethane	100	U	13	100
Trichloroethene	100	U	13	100
Trichlorofluoromethane	100	U	25	100
1,2,3-Trichloropropane	100	U	41	100
Vinyl acetate	200	U	28	200
Vinyl chloride	100	U	18	100
Xylenes, Total	200	U	20	200

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	103		75 - 120
Dibromofluoromethane	105		75 - 121
Toluene-d8 (Surr)	105		75 - 120

Client: Ashland Inc. Job Number: 680-56360-1

Client Sample ID: **HP-111-57C**

Lab Sample ID: 680-56360-7 Date Sampled: 03/31/2010 1700
Client Matrix: Water Date Received: 04/01/2010 1510

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-164831		Instrument ID:	MSO
Preparation:	5030B			Lab File ID:	o0417.d
Dilution:	500			Initial Weight/Volume:	5 mL
Date Analyzed:	04/04/2010 1555	Run Type: DL		Final Weight/Volume:	5 mL
Date Prepared:	04/04/2010 1555				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	6100	J D	2500	12000
Acetonitrile	20000	U	5000	20000
Acrolein	10000	U	3700	10000
Acrylonitrile	10000	U	3600	10000
Benzene	4000	D	120	500
Bromoform	500	U	250	500
Bromomethane	500	U	400	500
2-Butanone (MEK)	5000	U	500	5000
Carbon disulfide	1000	U	300	1000
Carbon tetrachloride	500	U	250	500
Chlorobenzene	4800	D	120	500
2-Chloro-1,3-butadiene	500	U	150	500
Chlorodibromomethane	500	U	50	500
Chloroethane	500	U	500	500
Chloroform	51000	D	70	500
Chloromethane	500	U	160	500
3-Chloro-1-propene	500	U	100	500
cis-1,3-Dichloropropene	500	U	55	500
1,2-Dibromo-3-Chloropropane	500	U	220	500
Dibromomethane	500	U	100	500
Dichlorobromomethane	500	U	120	500
Dichlorodifluoromethane	500	U	120	500
1,1-Dichloroethane	500	U	120	500
1,2-Dichloroethane	500	U	50	500
1,1-Dichloroethene	500	U	55	500
1,2-Dichloropropane	500	U	65	500
Ethylbenzene	500	U	55	500
Ethylene Dibromide	500	U	120	500
Ethyl methacrylate	500	U	120	500
2-Hexanone	5000	U	500	5000
Iodomethane	2500	U	500	2500
Isobutyl alcohol	20000	U	5500	20000
Methacrylonitrile	10000	U	1600	10000
Methylene Chloride	31000	D	500	2500
Methyl methacrylate	500	U	240	500
4-Methyl-2-pentanone (MIBK)	840	J D	500	5000
Pentachloroethane	2500	U	600	2500
Propionitrile	10000	U	2300	10000
Styrene	500	U	55	500
1,1,1,2-Tetrachloroethane	500	U	160	500
1,1,2,2-Tetrachloroethane	500	U	90	500
Tetrachloroethene	500	U	75	500
Toluene	260	J D	160	500
trans-1,4-Dichloro-2-butene	1000	U	250	1000
trans-1,2-Dichloroethene	500	U	100	500
trans-1,3-Dichloropropene	500	U	100	500

Client: Ashland Inc. Job Number: 680-56360-1

Client Sample ID: **HP-111-57C**

Lab Sample ID: 680-56360-7 Date Sampled: 03/31/2010 1700
Client Matrix: Water Date Received: 04/01/2010 1510

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-164831		Instrument ID:	MSO
Preparation:	5030B			Lab File ID:	o0417.d
Dilution:	500			Initial Weight/Volume:	5 mL
Date Analyzed:	04/04/2010 1555	Run Type: DL		Final Weight/Volume:	5 mL
Date Prepared:	04/04/2010 1555				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	500	U	250	500
1,1,2-Trichloroethane	500	U	65	500
Trichloroethene	500	U	65	500
Trichlorofluoromethane	500	U	120	500
1,2,3-Trichloropropane	500	U	200	500
Vinyl acetate	1000	U	140	1000
Vinyl chloride	500	U	90	500
Xylenes, Total	1000	U	100	1000

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	106		75 - 120
Dibromofluoromethane	105		75 - 121
Toluene-d8 (Surr)	105		75 - 120

Client: Ashland Inc. Job Number: 680-56360-1

Client Sample ID: **HP-111-57-TW**

Lab Sample ID: 680-56360-8 Date Sampled: 04/01/2010 1000
Client Matrix: Water Date Received: 04/01/2010 1510

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-164873 Instrument ID: MSO
Preparation: 5030B Lab File ID: o0441.d
Dilution: 500 Initial Weight/Volume: 5 mL
Date Analyzed: 04/05/2010 1436 Final Weight/Volume: 5 mL
Date Prepared: 04/05/2010 1436

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	12000	U	2500	12000
Acetonitrile	20000	U	5000	20000
Acrolein	10000	U	3700	10000
Acrylonitrile	10000	U	3600	10000
Benzene	3600		120	500
Bromoform	500	U	250	500
Bromomethane	500	U	400	500
2-Butanone (MEK)	5000	U	500	5000
Carbon disulfide	1000	U	300	1000
Carbon tetrachloride	500	U	250	500
Chlorobenzene	500	U	120	500
2-Chloro-1,3-butadiene	500	U	150	500
Chlorodibromomethane	500	U	50	500
Chloroethane	500	U	500	500
Chloroform	500	U	70	500
Chloromethane	500	U	160	500
3-Chloro-1-propene	500	U	100	500
cis-1,3-Dichloropropene	500	U	55	500
1,2-Dibromo-3-Chloropropane	500	U	220	500
Dibromomethane	500	U	100	500
Dichlorobromomethane	500	U	120	500
Dichlorodifluoromethane	500	U	120	500
1,1-Dichloroethane	500	U	120	500
1,2-Dichloroethane	500	U	50	500
1,1-Dichloroethene	500	U	55	500
1,2-Dichloropropane	500	U	65	500
Ethylbenzene	640		55	500
Ethylene Dibromide	500	U	120	500
Ethyl methacrylate	500	U	120	500
2-Hexanone	5000	U	500	5000
Iodomethane	2500	U	500	2500
Isobutyl alcohol	20000	U	5500	20000
Methacrylonitrile	10000	U	1600	10000
Methylene Chloride	2500	U	500	2500
Methyl methacrylate	500	U	240	500
4-Methyl-2-pentanone (MIBK)	5000	U	500	5000
Pentachloroethane	2500	U	600	2500
Propionitrile	10000	U	2300	10000
Styrene	500	U	55	500
1,1,1,2-Tetrachloroethane	500	U	160	500
1,1,2,2-Tetrachloroethane	500	U	90	500
Tetrachloroethene	230	J	75	500
Toluene	530		160	500
trans-1,4-Dichloro-2-butene	1000	U	250	1000
trans-1,2-Dichloroethene	500	U	100	500
trans-1,3-Dichloropropene	500	U	100	500

Client: Ashland Inc. Job Number: 680-56360-1

Client Sample ID: **HP-111-57-TW**

Lab Sample ID: 680-56360-8 Date Sampled: 04/01/2010 1000
Client Matrix: Water Date Received: 04/01/2010 1510

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-164873		Instrument ID:	MSO
Preparation:	5030B			Lab File ID:	o0441.d
Dilution:	500			Initial Weight/Volume:	5 mL
Date Analyzed:	04/05/2010 1436			Final Weight/Volume:	5 mL
Date Prepared:	04/05/2010 1436				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	500	U	250	500
1,1,2-Trichloroethane	500	U	65	500
Trichloroethene	500	U	65	500
Trichlorofluoromethane	500	U	120	500
1,2,3-Trichloropropane	500	U	200	500
Vinyl acetate	1000	U	140	1000
Vinyl chloride	500	U	90	500
Xylenes, Total	130	J	100	1000

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	106		75 - 120
Dibromofluoromethane	108		75 - 121
Toluene-d8 (Surr)	105		75 - 120

Client: Ashland Inc. Job Number: 680-56360-1

Client Sample ID: **HP-111-58A**

Lab Sample ID: 680-56360-9 Date Sampled: 04/01/2010 0815
Client Matrix: Water Date Received: 04/01/2010 1510

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-164831 Instrument ID: MSO
Preparation: 5030B Lab File ID: o0421.d
Dilution: 2.0 Initial Weight/Volume: 5 mL
Date Analyzed: 04/04/2010 1654 Final Weight/Volume: 5 mL
Date Prepared: 04/04/2010 1654

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	17	J	10	50
Acetonitrile	80	U	20	80
Acrolein	40	U	15	40
Acrylonitrile	40	U	14	40
Benzene	1.0	J	0.50	2.0
Bromoform	2.0	U	1.0	2.0
Bromomethane	2.0	U	1.6	2.0
2-Butanone (MEK)	20	U	2.0	20
Carbon disulfide	6.1		1.2	4.0
Carbon tetrachloride	2.0	U	1.0	2.0
Chlorobenzene	0.57	J	0.50	2.0
2-Chloro-1,3-butadiene	2.0	U	0.60	2.0
Chlorodibromomethane	2.0	U	0.20	2.0
Chloroethane	2.0	U	2.0	2.0
Chloroform	0.63	J	0.28	2.0
Chloromethane	2.0	U	0.66	2.0
3-Chloro-1-propene	2.0	U	0.40	2.0
cis-1,3-Dichloropropene	2.0	U	0.22	2.0
1,2-Dibromo-3-Chloropropane	2.0	U	0.88	2.0
Dibromomethane	2.0	U	0.40	2.0
Dichlorobromomethane	2.0	U	0.50	2.0
Dichlorodifluoromethane	2.0	U	0.50	2.0
1,1-Dichloroethane	2.0	U	0.50	2.0
1,2-Dichloroethane	2.0	U	0.20	2.0
1,1-Dichloroethene	2.0	U	0.22	2.0
1,2-Dichloropropane	2.0	U	0.26	2.0
Ethylbenzene	0.29	J	0.22	2.0
Ethylene Dibromide	2.0	U	0.50	2.0
Ethyl methacrylate	2.0	U	0.50	2.0
2-Hexanone	20	U	2.0	20
Iodomethane	10	U	2.0	10
Isobutyl alcohol	80	U	22	80
Methacrylonitrile	40	U	6.6	40
Methylene Chloride	10	U	2.0	10
Methyl methacrylate	2.0	U	0.96	2.0
4-Methyl-2-pentanone (MIBK)	20	U	2.0	20
Pentachloroethane	10	U	2.4	10
Propionitrile	40	U	9.2	40
Styrene	2.0	U	0.22	2.0
1,1,1,2-Tetrachloroethane	2.0	U	0.66	2.0
1,1,2,2-Tetrachloroethane	2.0	U	0.36	2.0
Tetrachloroethene	2.0	U	0.30	2.0
Toluene	0.73	J	0.66	2.0
trans-1,4-Dichloro-2-butene	4.0	U	1.0	4.0
trans-1,2-Dichloroethene	2.0	U	0.40	2.0
trans-1,3-Dichloropropene	2.0	U	0.42	2.0

Client: Ashland Inc. Job Number: 680-56360-1

Client Sample ID: **HP-111-58A**

Lab Sample ID: 680-56360-9 Date Sampled: 04/01/2010 0815
Client Matrix: Water Date Received: 04/01/2010 1510

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-164831	Instrument ID:	MSO
Preparation:	5030B		Lab File ID:	o0421.d
Dilution:	2.0		Initial Weight/Volume:	5 mL
Date Analyzed:	04/04/2010 1654		Final Weight/Volume:	5 mL
Date Prepared:	04/04/2010 1654			

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	2.0	U	1.0	2.0
1,1,2-Trichloroethane	2.0	U	0.26	2.0
Trichloroethene	2.0	U	0.26	2.0
Trichlorofluoromethane	2.0	U	0.50	2.0
1,2,3-Trichloropropane	2.0	U	0.82	2.0
Vinyl acetate	4.0	U	0.56	4.0
Vinyl chloride	2.0	U	0.36	2.0
Xylenes, Total	4.0	U	0.40	4.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	107		75 - 120
Dibromofluoromethane	99		75 - 121
Toluene-d8 (Surr)	107		75 - 120

Client: Ashland Inc. Job Number: 680-56360-1

Client Sample ID: **HP-111-58B**

Lab Sample ID: 680-56360-10 Date Sampled: 04/01/2010 0840
Client Matrix: Water Date Received: 04/01/2010 1510

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-164831		Instrument ID:	MSO
Preparation:	5030B			Lab File ID:	o0423.d
Dilution:	5.0			Initial Weight/Volume:	5 mL
Date Analyzed:	04/04/2010 1723			Final Weight/Volume:	5 mL
Date Prepared:	04/04/2010 1723				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	33	J	25	120
Acetonitrile	200	U	50	200
Acrolein	100	U	37	100
Acrylonitrile	100	U	36	100
Benzene	5.0	U	1.2	5.0
Bromoform	5.0	U	2.5	5.0
Bromomethane	5.0	U	4.0	5.0
2-Butanone (MEK)	50	U	5.0	50
Carbon disulfide	3.8	J	3.0	10
Carbon tetrachloride	5.0	U	2.5	5.0
Chlorobenzene	5.0	U	1.2	5.0
2-Chloro-1,3-butadiene	5.0	U	1.5	5.0
Chlorodibromomethane	5.0	U	0.50	5.0
Chloroethane	5.0	U	5.0	5.0
Chloroform	3.3	J	0.70	5.0
Chloromethane	5.0	U	1.6	5.0
3-Chloro-1-propene	5.0	U	1.0	5.0
cis-1,3-Dichloropropene	5.0	U	0.55	5.0
1,2-Dibromo-3-Chloropropane	5.0	U	2.2	5.0
Dibromomethane	5.0	U	1.0	5.0
Dichlorobromomethane	5.0	U	1.2	5.0
Dichlorodifluoromethane	5.0	U	1.2	5.0
1,1-Dichloroethane	5.0	U	1.2	5.0
1,2-Dichloroethane	5.0	U	0.50	5.0
1,1-Dichloroethene	5.0	U	0.55	5.0
1,2-Dichloropropane	5.0	U	0.65	5.0
Ethylbenzene	5.0	U	0.55	5.0
Ethylene Dibromide	5.0	U	1.2	5.0
Ethyl methacrylate	5.0	U	1.2	5.0
2-Hexanone	50	U	5.0	50
Iodomethane	25	U	5.0	25
Isobutyl alcohol	200	U	55	200
Methacrylonitrile	100	U	16	100
Methylene Chloride	25	U	5.0	25
Methyl methacrylate	5.0	U	2.4	5.0
4-Methyl-2-pentanone (MIBK)	50	U	5.0	50
Pentachloroethane	25	U	6.0	25
Propionitrile	100	U	23	100
Styrene	5.0	U	0.55	5.0
1,1,1,2-Tetrachloroethane	5.0	U	1.6	5.0
1,1,2,2-Tetrachloroethane	5.0	U	0.90	5.0
Tetrachloroethene	5.0	U	0.75	5.0
Toluene	5.0	U	1.6	5.0
trans-1,4-Dichloro-2-butene	10	U	2.5	10
trans-1,2-Dichloroethene	5.0	U	1.0	5.0
trans-1,3-Dichloropropene	5.0	U	1.0	5.0

Client: Ashland Inc. Job Number: 680-56360-1

Client Sample ID: **HP-111-58B**

Lab Sample ID: 680-56360-10 Date Sampled: 04/01/2010 0840
Client Matrix: Water Date Received: 04/01/2010 1510

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-164831 Instrument ID: MSO
Preparation: 5030B Lab File ID: o0423.d
Dilution: 5.0 Initial Weight/Volume: 5 mL
Date Analyzed: 04/04/2010 1723 Final Weight/Volume: 5 mL
Date Prepared: 04/04/2010 1723

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	5.0	U	2.5	5.0
1,1,2-Trichloroethane	5.0	U	0.65	5.0
Trichloroethene	5.0	U	0.65	5.0
Trichlorofluoromethane	5.0	U	1.2	5.0
1,2,3-Trichloropropane	5.0	U	2.0	5.0
Vinyl acetate	10	U	1.4	10
Vinyl chloride	5.0	U	0.90	5.0
Xylenes, Total	8.6	J	1.0	10

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	105		75 - 120
Dibromofluoromethane	105		75 - 121
Toluene-d8 (Surr)	106		75 - 120

Client: Ashland Inc. Job Number: 680-56360-1

Client Sample ID: **HP-111-58C**

Lab Sample ID: 680-56360-11 Date Sampled: 04/01/2010 0915
Client Matrix: Water Date Received: 04/01/2010 1510

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-164831	Instrument ID:	MSO
Preparation:	5030B		Lab File ID:	o0407.d
Dilution:	1.0		Initial Weight/Volume:	5 mL
Date Analyzed:	04/04/2010 1329		Final Weight/Volume:	5 mL
Date Prepared:	04/04/2010 1329			

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	7.0	J	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	25		0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	4.0		0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.7		0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.1		0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	0.55	J	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-56360-1

Client Sample ID: **HP-111-58C**

Lab Sample ID: 680-56360-11 Date Sampled: 04/01/2010 0915
Client Matrix: Water Date Received: 04/01/2010 1510

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-164831 Instrument ID: MSO
Preparation: 5030B Lab File ID: o0407.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 04/04/2010 1329 Final Weight/Volume: 5 mL
Date Prepared: 04/04/2010 1329

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.5		0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	104		75 - 120
Dibromofluoromethane	112		75 - 121
Toluene-d8 (Surr)	102		75 - 120

Client: Ashland Inc. Job Number: 680-56360-1

Client Sample ID: **Trip Blank 031010**

Lab Sample ID: 680-56360-12 Date Sampled: 04/01/2010 0000
Client Matrix: Water Date Received: 04/01/2010 1510

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-164831		Instrument ID:	MSO
Preparation:	5030B			Lab File ID:	o0401.d
Dilution:	1.0			Initial Weight/Volume:	5 mL
Date Analyzed:	04/04/2010 1201			Final Weight/Volume:	5 mL
Date Prepared:	04/04/2010 1201				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-56360-1

Client Sample ID: **Trip Blank 031010**

Lab Sample ID: 680-56360-12 Date Sampled: 04/01/2010 0000
Client Matrix: Water Date Received: 04/01/2010 1510

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-164831		Instrument ID:	MSO
Preparation:	5030B			Lab File ID:	o0401.d
Dilution:	1.0			Initial Weight/Volume:	5 mL
Date Analyzed:	04/04/2010 1201			Final Weight/Volume:	5 mL
Date Prepared:	04/04/2010 1201				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	101		75 - 120
Dibromofluoromethane	113		75 - 121
Toluene-d8 (Surr)	103		75 - 120

Client: Ashland Inc. Job Number: 680-56360-1

Client Sample ID: **HP-11-FB-2**

Lab Sample ID: 680-56360-13 Date Sampled: 04/01/2010 1100
Client Matrix: Water Date Received: 04/01/2010 1510

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-164831 Instrument ID: MSO
Preparation: 5030B Lab File ID: o0403.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 04/04/2010 1230 Final Weight/Volume: 5 mL
Date Prepared: 04/04/2010 1230

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	7.5	J	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-56360-1

Client Sample ID: **HP-11-FB-2**

Lab Sample ID: 680-56360-13 Date Sampled: 04/01/2010 1100
Client Matrix: Water Date Received: 04/01/2010 1510

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-164831		Instrument ID:	MSO
Preparation:	5030B			Lab File ID:	o0403.d
Dilution:	1.0			Initial Weight/Volume:	5 mL
Date Analyzed:	04/04/2010 1230			Final Weight/Volume:	5 mL
Date Prepared:	04/04/2010 1230				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	105		75 - 120
Dibromofluoromethane	114		75 - 121
Toluene-d8 (Surr)	104		75 - 120

Client: Ashland Inc. Job Number: 680-56360-1

Client Sample ID: **HP-111-54A**

Lab Sample ID: 680-56360-1 Date Sampled: 03/31/2010 1040
Client Matrix: Water Date Received: 04/01/2010 1510

8081A_8082 Organochlorine Pesticides & PCBs (GC)

Method:	8081A_8082	Analysis Batch: 680-164905		Instrument ID:	SGM
Preparation:	3520C	Prep Batch: 680-164757		Initial Weight/Volume:	500 mL
Dilution:	1.0			Final Weight/Volume:	5 mL
Date Analyzed:	04/05/2010 1455			Injection Volume:	2 uL
Date Prepared:	04/02/2010 1514			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Total	5.0	U	0.50	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	18		14 - 115
Tetrachloro-m-xylene	49		35 - 120

Client: Ashland Inc. Job Number: 680-56360-1

Client Sample ID: **HP-111-54B**

Lab Sample ID: 680-56360-2 Date Sampled: 03/31/2010 1110
Client Matrix: Water Date Received: 04/01/2010 1510

8081A_8082 Organochlorine Pesticides & PCBs (GC)

Method:	8081A_8082	Analysis Batch: 680-164905		Instrument ID:	SGM
Preparation:	3520C	Prep Batch: 680-164757		Initial Weight/Volume:	500 mL
Dilution:	1.0			Final Weight/Volume:	5 mL
Date Analyzed:	04/05/2010 1515			Injection Volume:	2 uL
Date Prepared:	04/02/2010 1514			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Total	11		0.50	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	11	X	14 - 115
Tetrachloro-m-xylene	78		35 - 120

Client: Ashland Inc. Job Number: 680-56360-1

Client Sample ID: **HP-111-54C**

Lab Sample ID: 680-56360-3 Date Sampled: 03/31/2010 1330
Client Matrix: Water Date Received: 04/01/2010 1510

8081A_8082 Organochlorine Pesticides & PCBs (GC)

Method:	8081A_8082	Analysis Batch: 680-164905		Instrument ID:	SGM
Preparation:	3520C	Prep Batch: 680-164757		Initial Weight/Volume:	500 mL
Dilution:	1.0			Final Weight/Volume:	5 mL
Date Analyzed:	04/05/2010 1534			Injection Volume:	2 uL
Date Prepared:	04/02/2010 1514			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Total	37		0.50	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	12	X	14 - 115
Tetrachloro-m-xylene	57		35 - 120

Client: Ashland Inc. Job Number: 680-56360-1

Client Sample ID: **HP-111-57A**

Lab Sample ID: 680-56360-5 Date Sampled: 03/31/2010 1515
Client Matrix: Water Date Received: 04/01/2010 1510

8081A_8082 Organochlorine Pesticides & PCBs (GC)

Method:	8081A_8082	Analysis Batch: 680-164905		Instrument ID:	SGM
Preparation:	3520C	Prep Batch: 680-164757		Initial Weight/Volume:	500 mL
Dilution:	1.0			Final Weight/Volume:	5 mL
Date Analyzed:	04/05/2010 1553			Injection Volume:	2 uL
Date Prepared:	04/02/2010 1514			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Total	15		0.50	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	33		14 - 115
Tetrachloro-m-xylene	93		35 - 120

Client: Ashland Inc. Job Number: 680-56360-1

Client Sample ID: **HP-111-57B**

Lab Sample ID: 680-56360-6 Date Sampled: 03/31/2010 1630
Client Matrix: Water Date Received: 04/01/2010 1510

8081A_8082 Organochlorine Pesticides & PCBs (GC)

Method:	8081A_8082	Analysis Batch: 680-164905		Instrument ID:	SGM
Preparation:	3520C	Prep Batch: 680-164757		Initial Weight/Volume:	500 mL
Dilution:	1.0			Final Weight/Volume:	5 mL
Date Analyzed:	04/05/2010 1624			Injection Volume:	2 uL
Date Prepared:	04/02/2010 1514			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Total	37		0.50	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	11	X	14 - 115
Tetrachloro-m-xylene	75		35 - 120

Client: Ashland Inc. Job Number: 680-56360-1

Client Sample ID: **HP-111-57C**

Lab Sample ID: 680-56360-7 Date Sampled: 03/31/2010 1700
Client Matrix: Water Date Received: 04/01/2010 1510

8081A_8082 Organochlorine Pesticides & PCBs (GC)

Method:	8081A_8082	Analysis Batch: 680-164905		Instrument ID:	SGM
Preparation:	3520C	Prep Batch: 680-164757		Initial Weight/Volume:	500 mL
Dilution:	1.0			Final Weight/Volume:	5 mL
Date Analyzed:	04/05/2010 1643			Injection Volume:	2 uL
Date Prepared:	04/02/2010 1514			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Total	41		0.50	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	11	X	14 - 115
Tetrachloro-m-xylene	81		35 - 120

Client: Ashland Inc. Job Number: 680-56360-1

Client Sample ID: **HP-111-54A**

Lab Sample ID: 680-56360-1 Date Sampled: 03/31/2010 1040
Client Matrix: Water Date Received: 04/01/2010 1510

8081B/8082A Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Method:	8081B/8082A	Analysis Batch: 680-164903		Instrument ID:	SGM
Preparation:	3520C	Prep Batch: 680-164757		Initial Weight/Volume:	500 mL
Dilution:	1.0			Final Weight/Volume:	5 mL
Date Analyzed:	04/05/2010 1455			Injection Volume:	2 uL
Date Prepared:	04/02/2010 1514			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Technical	5.0	U	0.50	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	16		14 - 115
Tetrachloro-m-xylene	53		35 - 120

Client: Ashland Inc. Job Number: 680-56360-1

Client Sample ID: **HP-111-54B**

Lab Sample ID: 680-56360-2 Date Sampled: 03/31/2010 1110
Client Matrix: Water Date Received: 04/01/2010 1510

8081B/8082A Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Method:	8081B/8082A	Analysis Batch: 680-164903		Instrument ID:	SGM
Preparation:	3520C	Prep Batch: 680-164757		Initial Weight/Volume:	500 mL
Dilution:	1.0			Final Weight/Volume:	5 mL
Date Analyzed:	04/05/2010 1515			Injection Volume:	2 uL
Date Prepared:	04/02/2010 1514			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Technical	5.0	U	0.50	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	11	X	14 - 115
Tetrachloro-m-xylene	74		35 - 120

Client: Ashland Inc. Job Number: 680-56360-1

Client Sample ID: **HP-111-54C**

Lab Sample ID: 680-56360-3 Date Sampled: 03/31/2010 1330
Client Matrix: Water Date Received: 04/01/2010 1510

8081B/8082A Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Method:	8081B/8082A	Analysis Batch: 680-164903		Instrument ID:	SGM
Preparation:	3520C	Prep Batch: 680-164757		Initial Weight/Volume:	500 mL
Dilution:	1.0			Final Weight/Volume:	5 mL
Date Analyzed:	04/05/2010 1534			Injection Volume:	2 uL
Date Prepared:	04/02/2010 1514			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Technical	5.0	U	0.50	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	17		14 - 115
Tetrachloro-m-xylene	68		35 - 120

Client: Ashland Inc. Job Number: 680-56360-1

Client Sample ID: **HP-111-57A**

Lab Sample ID: 680-56360-5 Date Sampled: 03/31/2010 1515
Client Matrix: Water Date Received: 04/01/2010 1510

8081B/8082A Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Method:	8081B/8082A	Analysis Batch: 680-164903		Instrument ID:	SGM
Preparation:	3520C	Prep Batch: 680-164757		Initial Weight/Volume:	500 mL
Dilution:	1.0			Final Weight/Volume:	5 mL
Date Analyzed:	04/05/2010 1553			Injection Volume:	2 uL
Date Prepared:	04/02/2010 1514			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Technical	5.0	U	0.50	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	25		14 - 115
Tetrachloro-m-xylene	103		35 - 120

Client: Ashland Inc. Job Number: 680-56360-1

Client Sample ID: **HP-111-57B**

Lab Sample ID: 680-56360-6 Date Sampled: 03/31/2010 1630
Client Matrix: Water Date Received: 04/01/2010 1510

8081B/8082A Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Method:	8081B/8082A	Analysis Batch: 680-164903		Instrument ID:	SGM
Preparation:	3520C	Prep Batch: 680-164757		Initial Weight/Volume:	500 mL
Dilution:	1.0			Final Weight/Volume:	5 mL
Date Analyzed:	04/05/2010 1624			Injection Volume:	2 uL
Date Prepared:	04/02/2010 1514			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Technical	5.0	U	0.50	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	11	X	14 - 115
Tetrachloro-m-xylene	110		35 - 120

Client: Ashland Inc. Job Number: 680-56360-1

Client Sample ID: **HP-111-57C**

Lab Sample ID: 680-56360-7 Date Sampled: 03/31/2010 1700
Client Matrix: Water Date Received: 04/01/2010 1510

8081B/8082A Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Method:	8081B/8082A	Analysis Batch: 680-164903		Instrument ID:	SGM
Preparation:	3520C	Prep Batch: 680-164757		Initial Weight/Volume:	500 mL
Dilution:	1.0			Final Weight/Volume:	5 mL
Date Analyzed:	04/05/2010 1643			Injection Volume:	2 uL
Date Prepared:	04/02/2010 1514			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Technical	5.0	U	0.50	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	14		14 - 115
Tetrachloro-m-xylene	56		35 - 120

DATA REPORTING QUALIFIERS

Client: Ashland Inc. Job Number: 680-56360-1

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Indicates the analyte was analyzed for but not detected.
	E	Result exceeded calibration range.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	D	Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.
GC Semi VOA		
	U	Indicates the analyte was analyzed for but not detected.
	X	Surrogate is outside control limits

QUALITY CONTROL RESULTS

Client: Ashland Inc. Job Number: 680-56360-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	BFB %Rec	DBFM %Rec	TOL %Rec
680-56360-1	HP-111-54A	106	114	103
680-56360-2	HP-111-54B	109	102	105
680-56360-2 DL	HP-111-54B DL	104	110	104
680-56360-3	HP-111-54C	105	109	105
680-56360-4	HP-111-55C	99	110	102
680-56360-5	HP-111-57A	103	105	106
680-56360-5 DL	HP-111-57A DL	105	111	106
680-56360-6	HP-111-57B	103	103	105
680-56360-6 DL	HP-111-57B DL	102	108	104
680-56360-7	HP-111-57C	103	105	105
680-56360-7 DL	HP-111-57C DL	106	105	105
680-56360-8	HP-111-57-TW	106	108	105
680-56360-9	HP-111-58A	107	99	107
680-56360-10	HP-111-58B	105	105	106
680-56360-11	HP-111-58C	104	112	102
680-56360-12	Trip Blank 031010	101	113	103
680-56360-13	HP-11-FB-2	105	114	104
MB 680-164798/9		102	114	103
MB 680-164831/12		105	116	103
MB 680-164873/7		104	115	104
LCS 680-164798/6		98	119	104
LCS 680-164831/9		106	118	103
LCS 680-164873/4		102	114	102
LCSD 680-164798/7		101	116	102
LCSD 680-164831/10		109	120	105
LCSD 680-164873/5		89	115	98

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene	75-120
DBFM = Dibromofluoromethane	75-121
TOL = Toluene-d8 (Surr)	75-120

Client: Ashland Inc. Job Number: 680-56360-1

Surrogate Recovery Report

8081A_8082_Organochlorine Pesticides & PCBs (GC)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCB1 %Rec	TCX1 %Rec
680-56360-1	HP-111-54A	18	49
680-56360-2	HP-111-54B	11X	78
680-56360-3	HP-111-54C	12X	57
680-56360-5	HP-111-57A	33	93
680-56360-6	HP-111-57B	11X	75
680-56360-7	HP-111-57C	11X	81
MB 680-164757/11-A		51	57
LCS 680-164757/16-A		56	63
LCSD 680-164757/17-A		58	60

Surrogate	Acceptance Limits
DCB = DCB Decachlorobiphenyl	14-115
TCX = Tetrachloro-m-xylene	35-120

Client: Ashland Inc. Job Number: 680-56360-1

Surrogate Recovery Report

8081B/8082A Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCB1 %Rec	DCB2 %Rec	TCX1 %Rec	TCX2 %Rec
680-56360-1	HP-111-54A	16			53
680-56360-2	HP-111-54B	11X		74	
680-56360-3	HP-111-54C	17		68	
680-56360-5	HP-111-57A	25		103	
680-56360-6	HP-111-57B	11X		110	
680-56360-7	HP-111-57C	14		56	
MB 680-164757/11-A			52		60
LCS 680-164757/16-A			57		68
LCSD 680-164757/17-A			58		64

Surrogate	Acceptance Limits
DCB = DCB Decachlorobiphenyl	14-115
TCX = Tetrachloro-m-xylene	35-120

Client: Ashland Inc. Job Number: 680-56360-1

Method Blank - Batch: 680-164798

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-164798/9
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/02/2010 1122
Date Prepared: 04/02/2010 1122

Analysis Batch: 680-164798
Prep Batch: N/A
Units: ug/L

Instrument ID: MSO
Lab File ID: oq305.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0

Client: Ashland Inc.

Job Number: 680-56360-1

Method Blank - Batch: 680-164798

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-164798/9
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/02/2010 1122
Date Prepared: 04/02/2010 1122

Analysis Batch: 680-164798
Prep Batch: N/A
Units: ug/L

Instrument ID: MSO
Lab File ID: oq305.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	102	75 - 120
Dibromofluoromethane	114	75 - 121
Toluene-d8 (Surr)	103	75 - 120

Client: Ashland Inc. Job Number: 680-56360-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-164798

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 680-164798/6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/02/2010 0925
Date Prepared: 04/02/2010 0925

Analysis Batch: 680-164798
Prep Batch: N/A
Units: ug/L

Instrument ID: MSO
Lab File ID: oq297.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

LCSD Lab Sample ID: LCSD 680-164798/7
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/02/2010 0954
Date Prepared: 04/02/2010 0954

Analysis Batch: 680-164798
Prep Batch: N/A
Units: ug/L

Instrument ID: MSO
Lab File ID: oq299.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	104	108	17 - 175	4	50		
Benzene	102	101	77 - 119	1	30		
Bromoform	91	94	62 - 133	3	30		
Bromomethane	91	111	12 - 184	19	50		
2-Butanone (MEK)	107	111	33 - 157	4	30		
Carbon disulfide	113	109	55 - 131	3	30		
Carbon tetrachloride	114	111	71 - 135	3	30		
Chlorobenzene	99	100	85 - 116	1	30		
Chlorodibromomethane	109	113	75 - 133	3	30		
Chloroethane	73	91	40 - 165	22	50		
Chloroform	113	111	82 - 120	2	30		
Chloromethane	89	89	48 - 142	0	50		
cis-1,3-Dichloropropene	110	107	76 - 126	3	30		
1,2-Dibromo-3-Chloropropane	95	99	49 - 140	3	30		
Dibromomethane	98	99	78 - 119	1	30		
Dichlorobromomethane	100	101	78 - 127	1	30		
Dichlorodifluoromethane	122	120	34 - 154	2	30		
1,1-Dichloroethane	112	108	74 - 127	4	30		
1,2-Dichloroethane	92	91	66 - 132	2	30		
1,1-Dichloroethene	119	115	62 - 141	3	30		
1,2-Dichloropropane	100	94	73 - 124	6	30		
Ethylbenzene	100	101	86 - 116	1	30		
Ethylene Dibromide	102	102	80 - 121	0	30		
2-Hexanone	95	99	34 - 161	5	30		
Methylene Chloride	115	115	70 - 125	0	30		
4-Methyl-2-pentanone (MIBK)	99	101	40 - 151	2	30		
Styrene	100	102	82 - 122	1	30		
1,1,1,2-Tetrachloroethane	89	89	81 - 128	0	30		
1,1,2,2-Tetrachloroethane	101	102	69 - 129	1	30		
Tetrachloroethene	102	102	76 - 126	0	30		
Toluene	101	101	81 - 117	0	30		
trans-1,2-Dichloroethene	112	108	72 - 131	4	30		
trans-1,3-Dichloropropene	113	111	73 - 128	2	30		
1,1,1-Trichloroethane	105	103	76 - 127	1	30		

Client: Ashland Inc. Job Number: 680-56360-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-164798

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-164798/6	Analysis Batch:	680-164798	Instrument ID:	MSO
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	oq297.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	04/02/2010 0925			Final Weight/Volume:	5 mL
Date Prepared:	04/02/2010 0925				

LCSD Lab Sample ID:	LCSD 680-164798/7	Analysis Batch:	680-164798	Instrument ID:	MSO
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	oq299.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	04/02/2010 0954			Final Weight/Volume:	5 mL
Date Prepared:	04/02/2010 0954				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,1,2-Trichloroethane	99	97	75 - 121	2	30		
Trichloroethene	103	102	84 - 115	1	30		
Trichlorofluoromethane	94	90	58 - 149	4	50		
1,2,3-Trichloropropane	91	100	70 - 130	9	30		
Vinyl acetate	134	131	10 - 217	2	30		
Vinyl chloride	83	81	59 - 144	2	50		
Xylenes, Total	100	100	84 - 118	0	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	98	101	75 - 120
Dibromofluoromethane	119	116	75 - 121
Toluene-d8 (Surr)	104	102	75 - 120

Client: Ashland Inc. Job Number: 680-56360-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 680-164798

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-164798/6	Units:	ug/L	LCSD Lab Sample ID:	LCSD 680-164798/7
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Date Analyzed:	04/02/2010 0925			Date Analyzed:	04/02/2010 0954
Date Prepared:	04/02/2010 0925			Date Prepared:	04/02/2010 0954

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Acetone	100	100	104	108
Benzene	50.0	50.0	51.2	50.5
Bromoform	50.0	50.0	45.6	47.2
Bromomethane	50.0	50.0	45.7	55.4
2-Butanone (MEK)	100	100	107	111
Carbon disulfide	50.0	50.0	56.4	54.7
Carbon tetrachloride	50.0	50.0	57.0	55.3
Chlorobenzene	50.0	50.0	49.6	50.2
Chlorodibromomethane	50.0	50.0	54.6	56.3
Chloroethane	50.0	50.0	36.3	45.3
Chloroform	50.0	50.0	56.7	55.6
Chloromethane	50.0	50.0	44.4	44.4
cis-1,3-Dichloropropene	50.0	50.0	55.0	53.4
1,2-Dibromo-3-Chloropropane	50.0	50.0	47.7	49.4
Dibromomethane	50.0	50.0	49.2	49.6
Dichlorobromomethane	50.0	50.0	50.2	50.7
Dichlorodifluoromethane	50.0	50.0	60.8	59.9
1,1-Dichloroethane	50.0	50.0	56.2	54.2
1,2-Dichloroethane	50.0	50.0	46.2	45.5
1,1-Dichloroethene	50.0	50.0	59.4	57.5
1,2-Dichloropropane	50.0	50.0	49.9	47.2
Ethylbenzene	50.0	50.0	50.0	50.5
Ethylene Dibromide	50.0	50.0	51.1	51.1
2-Hexanone	100	100	94.7	99.3
Methylene Chloride	50.0	50.0	57.6	57.6
4-Methyl-2-pentanone (MIBK)	100	100	98.9	101
Styrene	50.0	50.0	50.2	50.9
1,1,1,2-Tetrachloroethane	50.0	50.0	44.5	44.5
1,1,2,2-Tetrachloroethane	50.0	50.0	50.6	50.9
Tetrachloroethene	50.0	50.0	51.0	51.2
Toluene	50.0	50.0	50.5	50.6
trans-1,2-Dichloroethene	50.0	50.0	55.9	53.8
trans-1,3-Dichloropropene	50.0	50.0	56.6	55.6
1,1,1-Trichloroethane	50.0	50.0	52.3	51.6
1,1,2-Trichloroethane	50.0	50.0	49.6	48.6
Trichloroethene	50.0	50.0	51.4	50.8
Trichlorofluoromethane	50.0	50.0	47.2	45.2
1,2,3-Trichloropropane	50.0	50.0	45.5	49.8
Vinyl acetate	100	100	134	131
Vinyl chloride	50.0	50.0	41.4	40.5
Xylenes, Total	150	150	149	150

Client: Ashland Inc. Job Number: 680-56360-1

Method Blank - Batch: 680-164831

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-164831/12
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/04/2010 1132
Date Prepared: 04/04/2010 1132

Analysis Batch: 680-164831
Prep Batch: N/A
Units: ug/L

Instrument ID: MSO
Lab File ID: oq327.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0

Client: Ashland Inc. Job Number: 680-56360-1

Method Blank - Batch: 680-164831

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-164831/12
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/04/2010 1132
Date Prepared: 04/04/2010 1132

Analysis Batch: 680-164831
Prep Batch: N/A
Units: ug/L

Instrument ID: MSO
Lab File ID: oq327.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	105	75 - 120
Dibromofluoromethane	116	75 - 121
Toluene-d8 (Surr)	103	75 - 120

Client: Ashland Inc. Job Number: 680-56360-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-164831

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 680-164831/9
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/04/2010 0935
Date Prepared: 04/04/2010 0935

Analysis Batch: 680-164831
Prep Batch: N/A
Units: ug/L

Instrument ID: MSO
Lab File ID: oq319.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

LCSD Lab Sample ID: LCSD 680-164831/10
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/04/2010 1004
Date Prepared: 04/04/2010 1004

Analysis Batch: 680-164831
Prep Batch: N/A
Units: ug/L

Instrument ID: MSO
Lab File ID: oq321.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	103	101	17 - 175	2	50		
Benzene	103	104	77 - 119	1	30		
Bromoform	97	103	62 - 133	6	30		
Bromomethane	97	116	12 - 184	18	50		
2-Butanone (MEK)	105	107	33 - 157	2	30		
Carbon disulfide	115	115	55 - 131	0	30		
Carbon tetrachloride	113	114	71 - 135	1	30		
Chlorobenzene	106	107	85 - 116	1	30		
Chlorodibromomethane	118	122	75 - 133	4	30		
Chloroethane	95	99	40 - 165	4	50		
Chloroform	113	114	82 - 120	1	30		
Chloromethane	92	92	48 - 142	1	50		
cis-1,3-Dichloropropene	111	113	76 - 126	1	30		
1,2-Dibromo-3-Chloropropane	102	91	49 - 140	12	30		
Dibromomethane	99	101	78 - 119	3	30		
Dichlorobromomethane	104	106	78 - 127	2	30		
Dichlorodifluoromethane	126	127	34 - 154	1	30		
1,1-Dichloroethane	112	113	74 - 127	0	30		
1,2-Dichloroethane	93	94	66 - 132	0	30		
1,1-Dichloroethene	120	112	62 - 141	7	30		
1,2-Dichloropropane	101	98	73 - 124	4	30		
Ethylbenzene	106	108	86 - 116	1	30		
Ethylene Dibromide	105	106	80 - 121	1	30		
2-Hexanone	100	103	34 - 161	2	30		
Methylene Chloride	115	117	70 - 125	2	30		
4-Methyl-2-pentanone (MIBK)	98	99	40 - 151	1	30		
Styrene	107	110	82 - 122	2	30		
1,1,1,2-Tetrachloroethane	96	97	81 - 128	1	30		
1,1,2,2-Tetrachloroethane	104	108	69 - 129	5	30		
Tetrachloroethene	109	111	76 - 126	2	30		
Toluene	99	101	81 - 117	2	30		
trans-1,2-Dichloroethene	110	110	72 - 131	0	30		
trans-1,3-Dichloropropene	114	114	73 - 128	0	30		
1,1,1-Trichloroethane	106	106	76 - 127	0	30		

Client: Ashland Inc. Job Number: 680-56360-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-164831

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-164831/9	Analysis Batch:	680-164831	Instrument ID:	MSO
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	oq319.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	04/04/2010 0935			Final Weight/Volume:	5 mL
Date Prepared:	04/04/2010 0935				

LCSD Lab Sample ID:	LCSD 680-164831/10	Analysis Batch:	680-164831	Instrument ID:	MSO
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	oq321.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	04/04/2010 1004			Final Weight/Volume:	5 mL
Date Prepared:	04/04/2010 1004				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,1,2-Trichloroethane	99	100	75 - 121	1	30		
Trichloroethene	103	105	84 - 115	2	30		
Trichlorofluoromethane	79	79	58 - 149	1	50		
1,2,3-Trichloropropane	96	100	70 - 130	4	30		
Vinyl acetate	132	131	10 - 217	1	30		
Vinyl chloride	84	86	59 - 144	3	50		
Xylenes, Total	106	107	84 - 118	1	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	106	109	75 - 120
Dibromofluoromethane	118	120	75 - 121
Toluene-d8 (Surr)	103	105	75 - 120

Client: Ashland Inc. Job Number: 680-56360-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 680-164831

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-164831/9	Units:	ug/L	LCSD Lab Sample ID:	LCSD 680-164831/10
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Date Analyzed:	04/04/2010 0935			Date Analyzed:	04/04/2010 1004
Date Prepared:	04/04/2010 0935			Date Prepared:	04/04/2010 1004

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Acetone	100	100	103	101
Benzene	50.0	50.0	51.5	51.8
Bromoform	50.0	50.0	48.6	51.5
Bromomethane	50.0	50.0	48.7	58.1
2-Butanone (MEK)	100	100	105	107
Carbon disulfide	50.0	50.0	57.3	57.4
Carbon tetrachloride	50.0	50.0	56.6	57.0
Chlorobenzene	50.0	50.0	53.0	53.6
Chlorodibromomethane	50.0	50.0	58.9	61.2
Chloroethane	50.0	50.0	47.3	49.4
Chloroform	50.0	50.0	56.4	56.8
Chloromethane	50.0	50.0	45.8	46.1
cis-1,3-Dichloropropene	50.0	50.0	55.7	56.5
1,2-Dibromo-3-Chloropropane	50.0	50.0	51.2	45.6
Dibromomethane	50.0	50.0	49.4	50.7
Dichlorobromomethane	50.0	50.0	51.8	52.8
Dichlorodifluoromethane	50.0	50.0	62.9	63.5
1,1-Dichloroethane	50.0	50.0	56.1	56.4
1,2-Dichloroethane	50.0	50.0	46.6	46.8
1,1-Dichloroethene	50.0	50.0	60.0	55.8
1,2-Dichloropropane	50.0	50.0	50.7	48.8
Ethylbenzene	50.0	50.0	53.2	53.8
Ethylene Dibromide	50.0	50.0	52.3	52.9
2-Hexanone	100	100	100	103
Methylene Chloride	50.0	50.0	57.7	58.6
4-Methyl-2-pentanone (MIBK)	100	100	97.8	99.2
Styrene	50.0	50.0	53.7	55.0
1,1,1,2-Tetrachloroethane	50.0	50.0	48.0	48.3
1,1,2,2-Tetrachloroethane	50.0	50.0	51.8	54.2
Tetrachloroethene	50.0	50.0	54.3	55.5
Toluene	50.0	50.0	49.7	50.6
trans-1,2-Dichloroethene	50.0	50.0	55.2	55.0
trans-1,3-Dichloropropene	50.0	50.0	57.0	57.0
1,1,1-Trichloroethane	50.0	50.0	53.1	53.2
1,1,2-Trichloroethane	50.0	50.0	49.3	49.8
Trichloroethene	50.0	50.0	51.5	52.4
Trichlorofluoromethane	50.0	50.0	39.4	39.7
1,2,3-Trichloropropane	50.0	50.0	48.1	50.1
Vinyl acetate	100	100	132	131
Vinyl chloride	50.0	50.0	42.0	43.1
Xylenes, Total	150	150	159	161

Client: Ashland Inc. Job Number: 680-56360-1

Method Blank - Batch: 680-164873

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-164873/7
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/05/2010 1210
Date Prepared: 04/05/2010 1210

Analysis Batch: 680-164873
Prep Batch: N/A
Units: ug/L

Instrument ID: MSO
Lab File ID: oq343.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0

Client: Ashland Inc.

Job Number: 680-56360-1

Method Blank - Batch: 680-164873

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-164873/7
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/05/2010 1210
Date Prepared: 04/05/2010 1210

Analysis Batch: 680-164873
Prep Batch: N/A
Units: ug/L

Instrument ID: MSO
Lab File ID: oq343.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	104	75 - 120
Dibromofluoromethane	115	75 - 121
Toluene-d8 (Surr)	104	75 - 120

Client: Ashland Inc. Job Number: 680-56360-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-164873

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-164873/4	Analysis Batch:	680-164873	Instrument ID:	MSO
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	oq333.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	04/05/2010 0943			Final Weight/Volume:	5 mL
Date Prepared:	04/05/2010 0943				

LCSD Lab Sample ID:	LCSD 680-164873/5	Analysis Batch:	680-164873	Instrument ID:	MSO
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	oq335.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	04/05/2010 1012			Final Weight/Volume:	5 mL
Date Prepared:	04/05/2010 1012				

	% Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	115	112	17 - 175	3	50		
Benzene	101	97	77 - 119	3	30		
Bromoform	95	95	62 - 133	0	30		
Bromomethane	88	90	12 - 184	3	50		
2-Butanone (MEK)	112	113	33 - 157	1	30		
Carbon disulfide	111	106	55 - 131	4	30		
Carbon tetrachloride	108	102	71 - 135	5	30		
Chlorobenzene	101	100	85 - 116	2	30		
Chlorodibromomethane	114	112	75 - 133	2	30		
Chloroethane	82	68	40 - 165	18	50		
Chloroform	110	108	82 - 120	2	30		
Chloromethane	87	87	48 - 142	1	50		
cis-1,3-Dichloropropene	109	104	76 - 126	4	30		
1,2-Dibromo-3-Chloropropane	82	80	49 - 140	2	30		
Dibromomethane	97	95	78 - 119	2	30		
Dichlorobromomethane	102	97	78 - 127	5	30		
Dichlorodifluoromethane	116	118	34 - 154	1	30		
1,1-Dichloroethane	110	105	74 - 127	5	30		
1,2-Dichloroethane	92	88	66 - 132	4	30		
1,1-Dichloroethene	113	108	62 - 141	4	30		
1,2-Dichloropropane	96	94	73 - 124	2	30		
Ethylbenzene	100	98	86 - 116	2	30		
Ethylene Dibromide	106	102	80 - 121	4	30		
2-Hexanone	102	104	34 - 161	1	30		
Methylene Chloride	113	107	70 - 125	5	30		
4-Methyl-2-pentanone (MIBK)	102	101	40 - 151	2	30		
Styrene	103	101	82 - 122	2	30		
1,1,1,2-Tetrachloroethane	92	90	81 - 128	2	30		
1,1,2,2-Tetrachloroethane	104	95	69 - 129	9	30		
Tetrachloroethene	103	100	76 - 126	3	30		
Toluene	99	96	81 - 117	4	30		
trans-1,2-Dichloroethene	106	101	72 - 131	4	30		
trans-1,3-Dichloropropene	113	107	73 - 128	5	30		
1,1,1-Trichloroethane	102	98	76 - 127	4	30		

Client: Ashland Inc. Job Number: 680-56360-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-164873

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-164873/4	Analysis Batch:	680-164873	Instrument ID:	MSO
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	oq333.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	04/05/2010 0943			Final Weight/Volume:	5 mL
Date Prepared:	04/05/2010 0943				

LCSD Lab Sample ID:	LCSD 680-164873/5	Analysis Batch:	680-164873	Instrument ID:	MSO
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	oq335.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	04/05/2010 1012			Final Weight/Volume:	5 mL
Date Prepared:	04/05/2010 1012				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,1,2-Trichloroethane	99	95	75 - 121	4	30		
Trichloroethene	101	97	84 - 115	3	30		
Trichlorofluoromethane	80	86	58 - 149	7	50		
1,2,3-Trichloropropane	97	93	70 - 130	5	30		
Vinyl acetate	131	127	10 - 217	3	30		
Vinyl chloride	79	78	59 - 144	2	50		
Xylenes, Total	101	98	84 - 118	2	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	102	89	75 - 120
Dibromofluoromethane	114	115	75 - 121
Toluene-d8 (Surr)	102	98	75 - 120

Client: Ashland Inc. Job Number: 680-56360-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 680-164873

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-164873/4	Units:	ug/L	LCSD Lab Sample ID:	LCSD 680-164873/5
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Date Analyzed:	04/05/2010 0943			Date Analyzed:	04/05/2010 1012
Date Prepared:	04/05/2010 0943			Date Prepared:	04/05/2010 1012

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Acetone	100	100	115	112
Benzene	50.0	50.0	50.3	48.7
Bromoform	50.0	50.0	47.6	47.5
Bromomethane	50.0	50.0	43.8	45.2
2-Butanone (MEK)	100	100	112	113
Carbon disulfide	50.0	50.0	55.3	53.0
Carbon tetrachloride	50.0	50.0	54.0	51.2
Chlorobenzene	50.0	50.0	50.5	49.8
Chlorodibromomethane	50.0	50.0	57.0	56.0
Chloroethane	50.0	50.0	41.2	34.2
Chloroform	50.0	50.0	55.1	54.1
Chloromethane	50.0	50.0	43.5	43.3
cis-1,3-Dichloropropene	50.0	50.0	54.3	52.2
1,2-Dibromo-3-Chloropropane	50.0	50.0	40.8	39.8
Dibromomethane	50.0	50.0	48.6	47.7
Dichlorobromomethane	50.0	50.0	51.2	48.7
Dichlorodifluoromethane	50.0	50.0	58.2	59.0
1,1-Dichloroethane	50.0	50.0	55.2	52.7
1,2-Dichloroethane	50.0	50.0	46.0	44.2
1,1-Dichloroethene	50.0	50.0	56.4	54.2
1,2-Dichloropropane	50.0	50.0	48.0	47.2
Ethylbenzene	50.0	50.0	50.2	49.2
Ethylene Dibromide	50.0	50.0	52.8	50.8
2-Hexanone	100	100	102	104
Methylene Chloride	50.0	50.0	56.5	53.6
4-Methyl-2-pentanone (MIBK)	100	100	102	101
Styrene	50.0	50.0	51.5	50.6
1,1,1,2-Tetrachloroethane	50.0	50.0	45.9	44.8
1,1,2,2-Tetrachloroethane	50.0	50.0	52.0	47.3
Tetrachloroethene	50.0	50.0	51.4	50.2
Toluene	50.0	50.0	49.6	47.8
trans-1,2-Dichloroethene	50.0	50.0	52.8	50.6
trans-1,3-Dichloropropene	50.0	50.0	56.3	53.4
1,1,1-Trichloroethane	50.0	50.0	50.8	48.9
1,1,2-Trichloroethane	50.0	50.0	49.4	47.5
Trichloroethene	50.0	50.0	50.3	48.6
Trichlorofluoromethane	50.0	50.0	40.1	42.9
1,2,3-Trichloropropane	50.0	50.0	48.7	46.4
Vinyl acetate	100	100	131	127
Vinyl chloride	50.0	50.0	39.7	39.0
Xylenes, Total	150	150	151	148

Client: Ashland Inc. Job Number: 680-56360-1

Method Blank - Batch: 680-164757

Method: 8081A_8082
Preparation: 3520C

Lab Sample ID: MB 680-164757/11-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/05/2010 1240
Date Prepared: 04/02/2010 1514

Analysis Batch: 680-164905
Prep Batch: 680-164757
Units: ug/L

Instrument ID: SGM
Lab File ID: md05013.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
Toxaphene, Total	5.0	U	0.50	5.0

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	51	14 - 115
Tetrachloro-m-xylene	57	35 - 120

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-164757

Method: 8081A_8082
Preparation: 3520C

LCS Lab Sample ID: LCS 680-164757/16-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/05/2010 1417
Date Prepared: 04/02/2010 1514

Analysis Batch: 680-164905
Prep Batch: 680-164757
Units: ug/L

Instrument ID: SGM
Lab File ID: md05018.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/05/2010 1436
Date Prepared: 04/02/2010 1514

Analysis Batch: 680-164905
Prep Batch: 680-164757
Units: ug/L

Instrument ID: SGM
Lab File ID: md05019.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	% Rec. LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Toxaphene, Total	72	74	30 - 120	2	40		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
DCB Decachlorobiphenyl	56	58	14 - 115
Tetrachloro-m-xylene	63	60	35 - 120

Client: Ashland Inc. Job Number: 680-56360-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 680-164757

Method: 8081A_8082
Preparation: 3520C

LCS Lab Sample ID:	LCS 680-164757/16-A	Units:	ug/L	LCSD Lab Sample ID:	LCSD 680-164757/17-A
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Date Analyzed:	04/05/2010 1417			Date Analyzed:	04/05/2010 1436
Date Prepared:	04/02/2010 1514			Date Prepared:	04/02/2010 1514

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Toxaphene, Total	10.0	10.0	7.18	7.36

Client: Ashland Inc. Job Number: 680-56360-1

Method Blank - Batch: 680-164757

Method: 8081B/8082A
Preparation: 3520C

Lab Sample ID: MB 680-164757/11-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/05/2010 1240
Date Prepared: 04/02/2010 1514

Analysis Batch: 680-164903
Prep Batch: 680-164757
Units: ug/L

Instrument ID: SGM
Lab File ID: md05013.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
Toxaphene, Technical	5.0	U	0.50	5.0

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	52	14 - 115
Tetrachloro-m-xylene	60	35 - 120

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-164757

Method: 8081B/8082A
Preparation: 3520C

LCS Lab Sample ID: LCS 680-164757/16-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/05/2010 1417
Date Prepared: 04/02/2010 1514

Analysis Batch: 680-164903
Prep Batch: 680-164757
Units: ug/L

Instrument ID: SGM
Lab File ID: md05018.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/05/2010 1436
Date Prepared: 04/02/2010 1514

Analysis Batch: 680-164903
Prep Batch: 680-164757
Units: ug/L

Instrument ID: SGM
Lab File ID: md05019.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	% Rec. LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Toxaphene, Technical	72	80	30 - 120	11	40		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
DCB Decachlorobiphenyl	57	58	14 - 115
Tetrachloro-m-xylene	68	64	35 - 120

Client: Ashland Inc. Job Number: 680-56360-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 680-164757

Method: 8081B/8082A
Preparation: 3520C

LCS Lab Sample ID:	LCS 680-164757/16-A	Units:	ug/L	LCSD Lab Sample ID:	LCSD 680-164757/17-A
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Date Analyzed:	04/05/2010 1417			Date Analyzed:	04/05/2010 1436
Date Prepared:	04/02/2010 1514			Date Prepared:	04/02/2010 1514

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Toxaphene, Technical	10.0	10.0	7.18	7.99

Client: Ashland Inc. Job Number: 680-56360-1

Laboratory Chronicle

Lab ID: 680-56360-1 **Client ID: HP-111-54A**

Sample Date/Time: 03/31/2010 10:40 Received Date/Time: 04/01/2010 15:10

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-56360-B-1		680-164831		04/04/2010 12:59	1	TAL SAV	RB
A:8260B	680-56360-B-1		680-164831		04/04/2010 12:59	1	TAL SAV	RB
P:3520C	680-56360-D-1-A		680-164905	680-164757	04/02/2010 15:14	1	TAL SAV	RBS
A:8081A_8082	680-56360-D-1-A		680-164905	680-164757	04/05/2010 14:55	1	TAL SAV	JK
P:3520C	680-56360-D-1-A		680-164903	680-164757	04/02/2010 15:14	1	TAL SAV	RBS
A:8081B/8082A	680-56360-D-1-A		680-164903	680-164757	04/05/2010 14:55	1	TAL SAV	JK

Lab ID: 680-56360-2 **Client ID: HP-111-54B**

Sample Date/Time: 03/31/2010 11:10 Received Date/Time: 04/01/2010 15:10

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-56360-A-2		680-164798		04/02/2010 17:15	10	TAL SAV	RB
A:8260B	680-56360-A-2		680-164798		04/02/2010 17:15	10	TAL SAV	RB
P:5030B	680-56360-B-2	DL	680-164831		04/04/2010 14:27	50	TAL SAV	RB
A:8260B	680-56360-B-2	DL	680-164831		04/04/2010 14:27	50	TAL SAV	RB
P:3520C	680-56360-D-2-A		680-164905	680-164757	04/02/2010 15:14	1	TAL SAV	RBS
A:8081A_8082	680-56360-D-2-A		680-164905	680-164757	04/05/2010 15:15	1	TAL SAV	JK
P:3520C	680-56360-D-2-A		680-164903	680-164757	04/02/2010 15:14	1	TAL SAV	RBS
A:8081B/8082A	680-56360-D-2-A		680-164903	680-164757	04/05/2010 15:15	1	TAL SAV	JK

Lab ID: 680-56360-3 **Client ID: HP-111-54C**

Sample Date/Time: 03/31/2010 13:30 Received Date/Time: 04/01/2010 15:10

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-56360-A-3		680-164798		04/02/2010 17:44	100	TAL SAV	RB
A:8260B	680-56360-A-3		680-164798		04/02/2010 17:44	100	TAL SAV	RB
P:3520C	680-56360-D-3-A		680-164905	680-164757	04/02/2010 15:14	1	TAL SAV	RBS
A:8081A_8082	680-56360-D-3-A		680-164905	680-164757	04/05/2010 15:34	1	TAL SAV	JK
P:3520C	680-56360-D-3-A		680-164903	680-164757	04/02/2010 15:14	1	TAL SAV	RBS
A:8081B/8082A	680-56360-D-3-A		680-164903	680-164757	04/05/2010 15:34	1	TAL SAV	JK

Lab ID: 680-56360-4 **Client ID: HP-111-55C**

Sample Date/Time: 03/31/2010 08:00 Received Date/Time: 04/01/2010 15:10

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-56360-B-4		680-164831		04/04/2010 13:58	1	TAL SAV	RB
A:8260B	680-56360-B-4		680-164831		04/04/2010 13:58	1	TAL SAV	RB

Client: Ashland Inc. Job Number: 680-56360-1

Laboratory Chronicle

Lab ID: 680-56360-5 **Client ID: HP-111-57A**

Sample Date/Time: 03/31/2010 15:15 Received Date/Time: 04/01/2010 15:10

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-56360-C-5		680-164798		04/02/2010 18:43	50	TAL SAV	RB
A:8260B	680-56360-C-5		680-164798		04/02/2010 18:43	50	TAL SAV	RB
P:5030B	680-56360-A-5	DL	680-164831		04/04/2010 14:56	200	TAL SAV	RB
A:8260B	680-56360-A-5	DL	680-164831		04/04/2010 14:56	200	TAL SAV	RB
P:3520C	680-56360-D-5-A		680-164905	680-164757	04/02/2010 15:14	1	TAL SAV	RBS
A:8081A_8082	680-56360-D-5-A		680-164905	680-164757	04/05/2010 15:53	1	TAL SAV	JK
P:3520C	680-56360-D-5-A		680-164903	680-164757	04/02/2010 15:14	1	TAL SAV	RBS
A:8081B/8082A	680-56360-D-5-A		680-164903	680-164757	04/05/2010 15:53	1	TAL SAV	JK

Lab ID: 680-56360-6 **Client ID: HP-111-57B**

Sample Date/Time: 03/31/2010 16:30 Received Date/Time: 04/01/2010 15:10

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-56360-A-6		680-164798		04/02/2010 19:13	100	TAL SAV	RB
A:8260B	680-56360-A-6		680-164798		04/02/2010 19:13	100	TAL SAV	RB
P:5030B	680-56360-B-6	DL	680-164831		04/04/2010 15:26	1000	TAL SAV	RB
A:8260B	680-56360-B-6	DL	680-164831		04/04/2010 15:26	1000	TAL SAV	RB
P:3520C	680-56360-D-6-A		680-164905	680-164757	04/02/2010 15:14	1	TAL SAV	RBS
A:8081A_8082	680-56360-D-6-A		680-164905	680-164757	04/05/2010 16:24	1	TAL SAV	JK
P:3520C	680-56360-D-6-A		680-164903	680-164757	04/02/2010 15:14	1	TAL SAV	RBS
A:8081B/8082A	680-56360-D-6-A		680-164903	680-164757	04/05/2010 16:24	1	TAL SAV	JK

Lab ID: 680-56360-7 **Client ID: HP-111-57C**

Sample Date/Time: 03/31/2010 17:00 Received Date/Time: 04/01/2010 15:10

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-56360-B-7		680-164798		04/02/2010 19:43	100	TAL SAV	RB
A:8260B	680-56360-B-7		680-164798		04/02/2010 19:43	100	TAL SAV	RB
P:5030B	680-56360-C-7	DL	680-164831		04/04/2010 15:55	500	TAL SAV	RB
A:8260B	680-56360-C-7	DL	680-164831		04/04/2010 15:55	500	TAL SAV	RB
P:3520C	680-56360-D-7-A		680-164905	680-164757	04/02/2010 15:14	1	TAL SAV	RBS
A:8081A_8082	680-56360-D-7-A		680-164905	680-164757	04/05/2010 16:43	1	TAL SAV	JK
P:3520C	680-56360-D-7-A		680-164903	680-164757	04/02/2010 15:14	1	TAL SAV	RBS
A:8081B/8082A	680-56360-D-7-A		680-164903	680-164757	04/05/2010 16:43	1	TAL SAV	JK

Lab ID: 680-56360-8 **Client ID: HP-111-57-TW**

Sample Date/Time: 04/01/2010 10:00 Received Date/Time: 04/01/2010 15:10

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-56360-B-8		680-164873		04/05/2010 14:36	500	TAL SAV	RB
A:8260B	680-56360-B-8		680-164873		04/05/2010 14:36	500	TAL SAV	RB

Client: Ashland Inc. Job Number: 680-56360-1

Laboratory Chronicle

Lab ID: 680-56360-9 **Client ID:** HP-111-58A

Sample Date/Time: 04/01/2010 08:15 Received Date/Time: 04/01/2010 15:10

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-56360-A-9		680-164831		04/04/2010 16:54	2	TAL SAV	RB
A:8260B	680-56360-A-9		680-164831		04/04/2010 16:54	2	TAL SAV	RB

Lab ID: 680-56360-10 **Client ID:** HP-111-58B

Sample Date/Time: 04/01/2010 08:40 Received Date/Time: 04/01/2010 15:10

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-56360-B-10		680-164831		04/04/2010 17:23	5	TAL SAV	RB
A:8260B	680-56360-B-10		680-164831		04/04/2010 17:23	5	TAL SAV	RB

Lab ID: 680-56360-11 **Client ID:** HP-111-58C

Sample Date/Time: 04/01/2010 09:15 Received Date/Time: 04/01/2010 15:10

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-56360-B-11		680-164831		04/04/2010 13:29	1	TAL SAV	RB
A:8260B	680-56360-B-11		680-164831		04/04/2010 13:29	1	TAL SAV	RB

Lab ID: 680-56360-12 **Client ID:** Trip Blank 031010

Sample Date/Time: 04/01/2010 00:00 Received Date/Time: 04/01/2010 15:10

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-56360-B-12		680-164831		04/04/2010 12:01	1	TAL SAV	RB
A:8260B	680-56360-B-12		680-164831		04/04/2010 12:01	1	TAL SAV	RB

Lab ID: 680-56360-13 **Client ID:** HP-11-FB-2

Sample Date/Time: 04/01/2010 11:00 Received Date/Time: 04/01/2010 15:10

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-56360-B-13		680-164831		04/04/2010 12:30	1	TAL SAV	RB
A:8260B	680-56360-B-13		680-164831		04/04/2010 12:30	1	TAL SAV	RB

Client: Ashland Inc. Job Number: 680-56360-1

Laboratory Chronicle

Lab ID: MB **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	MB 680-164798/9		680-164798		04/02/2010 11:22	1	TAL SAV	RB
A:8260B	MB 680-164798/9		680-164798		04/02/2010 11:22	1	TAL SAV	RB
P:5030B	MB 680-164831/12		680-164831		04/04/2010 11:32	1	TAL SAV	RB
A:8260B	MB 680-164831/12		680-164831		04/04/2010 11:32	1	TAL SAV	RB
P:5030B	MB 680-164873/7		680-164873		04/05/2010 12:10	1	TAL SAV	RB
A:8260B	MB 680-164873/7		680-164873		04/05/2010 12:10	1	TAL SAV	RB
P:3520C	MB 680-164757/11-A		680-164905	680-164757	04/02/2010 15:14	1	TAL SAV	RBS
A:8081A_8082	MB 680-164757/11-A		680-164905	680-164757	04/05/2010 12:40	1	TAL SAV	JK
P:3520C	MB 680-164757/11-A		680-164903	680-164757	04/02/2010 15:14	1	TAL SAV	RBS
A:8081B/8082A	MB 680-164757/11-A		680-164903	680-164757	04/05/2010 12:40	1	TAL SAV	JK

Lab ID: LCS **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCS 680-164798/6		680-164798		04/02/2010 09:25	1	TAL SAV	RB
A:8260B	LCS 680-164798/6		680-164798		04/02/2010 09:25	1	TAL SAV	RB
P:5030B	LCS 680-164831/9		680-164831		04/04/2010 09:35	1	TAL SAV	RB
A:8260B	LCS 680-164831/9		680-164831		04/04/2010 09:35	1	TAL SAV	RB
P:5030B	LCS 680-164873/4		680-164873		04/05/2010 09:43	1	TAL SAV	RB
A:8260B	LCS 680-164873/4		680-164873		04/05/2010 09:43	1	TAL SAV	RB
P:3520C	LCS 680-164757/16-A		680-164905	680-164757	04/02/2010 15:14	1	TAL SAV	RBS
A:8081A_8082	LCS 680-164757/16-A		680-164905	680-164757	04/05/2010 14:17	1	TAL SAV	JK
P:3520C	LCS 680-164757/16-A		680-164903	680-164757	04/02/2010 15:14	1	TAL SAV	RBS
A:8081B/8082A	LCS 680-164757/16-A		680-164903	680-164757	04/05/2010 14:17	1	TAL SAV	JK

Client: Ashland Inc. Job Number: 680-56360-1

Laboratory Chronicle

Lab ID: **LCSD** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCSD 680-164798/7		680-164798		04/02/2010 09:54	1	TAL SAV	RB
A:8260B	LCSD 680-164798/7		680-164798		04/02/2010 09:54	1	TAL SAV	RB
P:5030B	LCSD 680-164831/10		680-164831		04/04/2010 10:04	1	TAL SAV	RB
A:8260B	LCSD 680-164831/10		680-164831		04/04/2010 10:04	1	TAL SAV	RB
P:5030B	LCSD 680-164873/5		680-164873		04/05/2010 10:12	1	TAL SAV	RB
A:8260B	LCSD 680-164873/5		680-164873		04/05/2010 10:12	1	TAL SAV	RB
P:3520C	LCSD 680-164757/17-A		680-164905	680-164757	04/02/2010 15:14	1	TAL SAV	RBS
A:8081A_8082	LCSD 680-164757/17-A		680-164905	680-164757	04/05/2010 14:36	1	TAL SAV	JK
P:3520C	LCSD 680-164757/17-A		680-164903	680-164757	04/02/2010 15:14	1	TAL SAV	RBS
A:8081B/8082A	LCSD 680-164757/17-A		680-164903	680-164757	04/05/2010 14:36	1	TAL SAV	JK

Lab References:
TAL SAV = TestAmerica Savannah

Serial Number 030502

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE: Ashland Brunswick TFG GW	PROJECT NO.	PROJECT LOCATION (STATE): GA	PAGE 1 OF 2
TAL (LAB) PROJECT MANAGER: Lidya Gulizia	P.O. NUMBER: 4501306047	CONTRACT NO.	STANDARD REPORT DELIVERY ○
CLIENT (SITE) PM: Tim Bassett	CLIENT PHONE	CLIENT FAX	DATE DUE
CLIENT NAME: Ashland-Hercules	CLIENT E-MAIL		EXPEDITED REPORT DELIVERY (SURCHARGE) ✓
CLIENT ADDRESS			DATE DUE 48 hr
COMPANY CONTRACTING THIS WORK (if applicable): Ashland			NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: 8260 VOC (HP)	8081 Toxaphene	6010 Metals	NUMBER OF CONTAINERS SUBMITTED	REMARKS
								N/A	N/A	PRESERVATIVE		
3/31/10	1040	HP-111-54A	G	✓				3	1			
	1110	HP-111-54B						3	1			
	1330	HP-111-54C						3	1			
	800	HP-111-55C						3				
	1515	HP-111-57A						3	1			
	1630	HP-111-57B						3	1			
↓	1700	HP-111-57C						3	1			
4/1/10	1000	HP-111-57-TW						3				
	815	HP-111-58-A						3				
	840	HP-111-58-B						3				
	915	HP-111-58-C						3				
		Trip Blank 031010						2				

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RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
Chad Weaver	4/1/10	1505						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES ○ NO ○	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
Beth A Daughtry	4/1/10	1510			680-56360	Temp 0.2/0.8

TAL8240-680 (1207)

Serial Number 031010

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE: TFGW Ashland Brunswick
PROJECT NO.:
PROJECT LOCATION (STATE): GA
TAL (LAB) PROJECT MANAGER: Lidya Gnizma
P.O. NUMBER: 4501306047
CONTRACT NO.:
CLIENT (SITE) PM: Tim Hassett
CLIENT PHONE:
CLIENT FAX:
CLIENT NAME: Ashland - Hercules
CLIENT E-MAIL:
CLIENT ADDRESS:
COMPANY CONTRACTING THIS WORK (if applicable): Ashland

PAGE 2 OF 2

STANDARD REPORT DELIVERY ○
DATE DUE:
EXPEDITED REPORT DELIVERY (SURCHARGE) ✓
DATE DUE: 48hr

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: 8260 VOC w/ PRESERVATIVE	NUMBER OF CONTAINERS SUBMITTED	REMARKS
4/1/10	1100	HP-111-FB-2		✓					3	

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RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	4/1/10	1505						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
Bertha Daughtry	4/1/10	1510	YES ○ NO ○		680-56360	Temp 0.2/0.8

TAL8240-680 (1207)

Login Sample Receipt Check List

Client: Ashland Inc.

Job Number: 680-56360-1

Login Number: 56360

List Source: TestAmerica Savannah

Creator: Daughtry, Beth

List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	2 coolers rec'd on ice
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.2 and 0.8 C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	MS/MSD not requested (no additional volume provided).
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	False	
Sample Preservation Verified	True	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 680-56303-1

Job Description: Ashland Brunswick Ph 3 RFI GW 3/29-20/10

For:
Ashland Inc.
500 Hercules Road
Wilmington, DE 19894

Attention: Timothy Hassett

Approved for release.
Lidya Gulizia
Project Manager I
4/9/2010 8:06 AM

Lidya Gulizia
Project Manager I
lidya.gulizia@testamericainc.com
04/09/2010

cc: Mr. Tony Mancini
Mr. John D Reuscher
Ms. Charlene Rivard
Mr. Derek Rothaupt

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

Savannah Certifications and ID #s: A2LA: 0399.01; AL: 41450; ARDEQ: 88-0692; ARDOH; AZ: AZ0741; CA: 03217CA; CO; CT: PH0161; DE; FL: E87052; GA: 803; Guam; HI; IL: 200022; IN; IA: 353; KS: E-10322; KY EPPC: 90084; KY UST; LA DEQ: 30690; LA DHH: LA080008; ME: 2008022; MD: 250; MA: M-GA006; MI: 9925; MS; NFESC: 249; NV: GA00006; NJ: GA769; NM; NY: 10842; NC DWQ: 269; NC DHHS: 13701; PA: 68-00474; PR: GA00006; RI: LAO00244; SC: 98001001; TN: TN0296; TX: T104704185; USEPA: GA00006; VT: VT-87052; VA: 00302; WA; WV DEP: 094; WV DHHR: 9950 C; WI DNR: 999819810; WY/EPAR8: 8TMS-Q

TestAmerica Laboratories, Inc.
TestAmerica Savannah 5102 LaRoche Avenue, Savannah, GA 31404
Tel (912) 354-7858 Fax (912) 352-0165 www.testamericainc.com

ACCREDITED IN ACCORDANCE WITH nelac

Job Narrative
680-56303-1

Receipt
All samples were received in good condition within temperature requirements.

GC/MS VOA
No analytical or quality issues were noted.

GC Semi VOA
No analytical or quality issues were noted.

Metals
No analytical or quality issues were noted.

Comments
The metals target list was revised to full Appendix IX analytes post sample delivery.

No additional comments.

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METHOD SUMMARY

Client: Ashland Inc. Job Number: 680-56303-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL SAV	SW846 8260B	
Purge and Trap	TAL SAV		SW846 5030B
Organochlorine Pesticides & PCBs (GC)	TAL SAV	SW846 8081A_8082	
Liquid-Liquid Extraction (Continuous)	TAL SAV		SW846 3520C
Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography	TAL SAV	SW846 8081B/8082A	
Liquid-Liquid Extraction (Continuous)	TAL SAV		SW846 3520C
Metals (ICP)	TAL SAV	SW846 6010B	
Preparation, Total Recoverable or Dissolved Metals	TAL SAV		SW846 3005A
Mercury (CVAA)	TAL SAV	SW846 7470A	
Preparation, Mercury	TAL SAV		SW846 7470A

Lab References:

TAL SAV = TestAmerica Savannah

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Ashland Inc. Job Number: 680-56303-1

Method	Analyst	Analyst ID
SW846 8260B	Bearden, Robert	RB
SW846 8081A_8082	Kellar, Joshua	JK
SW846 8081B/8082A	Kellar, Joshua	JK
SW846 6010B	Bland, Brian	BCB
SW846 7470A	Eaton, Cliff	CE

SAMPLE SUMMARY

Client: Ashland Inc. Job Number: 680-56303-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-56303-1	HP-111-50A	Water	03/30/2010 0930	03/31/2010 1333
680-56303-2	HP-111-50B	Water	03/30/2010 1000	03/31/2010 1333
680-56303-3	HP-111-50C	Water	03/30/2010 1030	03/31/2010 1333
680-56303-4	HP-111-51A	Water	03/29/2010 1545	03/31/2010 1333
680-56303-5	HP-111-52A	Water	03/29/2010 1415	03/31/2010 1333
680-56303-6	HP-111-52B	Water	03/29/2010 1430	03/31/2010 1333
680-56303-7	HP-111-53A	Water	03/29/2010 1015	03/31/2010 1333
680-56303-8	HP-111-53B	Water	03/29/2010 1050	03/31/2010 1333
680-56303-9	HP-111-55A	Water	03/30/2010 1530	03/31/2010 1333
680-56303-10	HP-111-55B	Water	03/30/2010 1600	03/31/2010 1333
680-56303-11	HP-111-56A	Water	03/30/2010 1420	03/31/2010 1333
680-56303-12TB	Trip Blank Lot 031010	Water	03/30/2010 0000	03/31/2010 1333
680-56303-13FB	HP-111-FB-1	Water	03/30/2010 1755	03/31/2010 1333

SAMPLE RESULTS

Client: Ashland Inc. Job Number: 680-56303-1

Client Sample ID: **HP-111-50A**

L8l e6S8t po eDm 680-56303-1 Date Sampled: 03/30/2010 0930
Client Matrix: Water Date Received: 03/31/2010 1333

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-164798		Instrument ID:	MSO
Preparation:	5030B			Lab File ID:	o0367.d
Dilution:	1.0			Initial Weight/Volume:	5 mL
Date Analyzed:	04/02/2010 1151			Final Weight/Volume:	5 mL
Date Prepared:	04/02/2010 1151				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-56303-1

Client Sample ID: **HP-111-50A**

Lab Sample ID: 680-56303-1 Date Sampled: 03/30/2010 0930
Client Matrix: Water Date Received: 03/31/2010 1333

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-164798 Instrument ID: MSO
Preparation: 5030B Lab File ID: o0367.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 04/02/2010 1151 Final Weight/Volume: 5 mL
Date Prepared: 04/02/2010 1151

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	101		75 - 120
Dibromofluoromethane	111		75 - 121
Toluene-d8 (Surr)	104		75 - 120

Client: Ashland Inc. Job Number: 680-56303-1

Client Sample ID: **HP-111-50B**

Lab Sample ID: 680-56303-2 Date Sampled: 03/30/2010 1000
Client Matrix: Water Date Received: 03/31/2010 1333

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-164684 Instrument ID: MSO
Preparation: 5030B Lab File ID: o0365.d
Dilution: 10 Initial Weight/Volume: 5 mL
Date Analyzed: 04/01/2010 1956 Final Weight/Volume: 5 mL
Date Prepared: 04/01/2010 1956

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	250	U	50	250
Acetonitrile	400	U	100	400
Acrolein	200	U	74	200
Acrylonitrile	200	U	72	200
Benzene	1700		2.5	10
Bromoform	10	U	5.0	10
Bromomethane	10	U	8.0	10
2-Butanone (MEK)	100	U	10	100
Carbon disulfide	7.5	J	6.0	20
Carbon tetrachloride	10	U	5.0	10
Chlorobenzene	10	U	2.5	10
2-Chloro-1,3-butadiene	10	U	3.0	10
Chlorodibromomethane	10	U	1.0	10
Chloroethane	10	U	10	10
Chloroform	10	U	1.4	10
Chloromethane	10	U	3.3	10
3-Chloro-1-propene	10	U	2.0	10
cis-1,3-Dichloropropene	10	U	1.1	10
1,2-Dibromo-3-Chloropropane	10	U	4.4	10
Dibromomethane	10	U	2.0	10
Dichlorobromomethane	10	U	2.5	10
Dichlorodifluoromethane	10	U	2.5	10
1,1-Dichloroethane	10	U	2.5	10
1,2-Dichloroethane	10	U	1.0	10
1,1-Dichloroethene	10	U	1.1	10
1,2-Dichloropropane	10	U	1.3	10
Ethylbenzene	1.8	J	1.1	10
Ethylene Dibromide	10	U	2.5	10
Ethyl methacrylate	10	U	2.5	10
2-Hexanone	100	U	10	100
Iodomethane	50	U	10	50
Isobutyl alcohol	400	U	110	400
Methacrylonitrile	200	U	33	200
Methylene Chloride	50	U	10	50
Methyl methacrylate	10	U	4.8	10
4-Methyl-2-pentanone (MIBK)	100	U	10	100
Pentachloroethane	50	U	12	50
Propionitrile	200	U	46	200
Styrene	10	U	1.1	10
1,1,1,2-Tetrachloroethane	10	U	3.3	10
1,1,2,2-Tetrachloroethane	10	U	1.8	10
Tetrachloroethene	10	U	1.5	10
Toluene	10	U	3.3	10
trans-1,4-Dichloro-2-butene	20	U	5.0	20
trans-1,2-Dichloroethene	10	U	2.0	10
trans-1,3-Dichloropropene	10	U	2.1	10

Client: Ashland Inc. Job Number: 680-56303-1

Client Sample ID: **HP-111-50B**

Lab Sample ID: 680-56303-2 Date Sampled: 03/30/2010 1000
Client Matrix: Water Date Received: 03/31/2010 1333

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-164684 Instrument ID: MSO
Preparation: 5030B Lab File ID: o0365.d
Dilution: 10 Initial Weight/Volume: 5 mL
Date Analyzed: 04/01/2010 1956 Final Weight/Volume: 5 mL
Date Prepared: 04/01/2010 1956

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	10	U	5.0	10
1,1,2-Trichloroethane	10	U	1.3	10
Trichloroethene	10	U	1.3	10
Trichlorofluoromethane	10	U	2.5	10
1,2,3-Trichloropropane	10	U	4.1	10
Vinyl acetate	20	U	2.8	20
Vinyl chloride	10	U	1.8	10
Xylenes, Total	2.9	J	2.0	20

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	105		75 - 120
Dibromofluoromethane	107		75 - 121
Toluene-d8 (Surr)	103		75 - 120

Client: Ashland Inc. Job Number: 680-56303-1

Client Sample ID: **HP-111-50C**

Lab Sample ID: 680-56303-3 Date Sampled: 03/30/2010 1030
Client Matrix: Water Date Received: 03/31/2010 1333

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-164798 Instrument ID: MSO
Preparation: 5030B Lab File ID: o0369.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 04/02/2010 1221 Final Weight/Volume: 5 mL
Date Prepared: 04/02/2010 1221

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	34		5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	17		0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	4.0	J	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	0.39	J	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	2.0	J	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	0.56	J	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-56303-1

Client Sample ID: **HP-111-50C**

Lab Sample ID: 680-56303-3 Date Sampled: 03/30/2010 1030
Client Matrix: Water Date Received: 03/31/2010 1333

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-164798 Instrument ID: MSO
Preparation: 5030B Lab File ID: o0369.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 04/02/2010 1221 Final Weight/Volume: 5 mL
Date Prepared: 04/02/2010 1221

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.1		0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	101		75 - 120
Dibromofluoromethane	94		75 - 121
Toluene-d8 (Surr)	104		75 - 120

Client: Ashland Inc. Job Number: 680-56303-1

Client Sample ID: **HP-111-51A**

Lab Sample ID: 680-56303-4 Date Sampled: 03/29/2010 1545
Client Matrix: Water Date Received: 03/31/2010 1333

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-164798 Instrument ID: MSO
Preparation: 5030B Lab File ID: o0371.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 04/02/2010 1250 Final Weight/Volume: 5 mL
Date Prepared: 04/02/2010 1250

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	7.6	J	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	16		0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.1		0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	0.25	J	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-56303-1

Client Sample ID: **HP-111-51A**

Lab Sample ID: 680-56303-4 Date Sampled: 03/29/2010 1545
Client Matrix: Water Date Received: 03/31/2010 1333

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-164798 Instrument ID: MSO
Preparation: 5030B Lab File ID: o0371.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 04/02/2010 1250 Final Weight/Volume: 5 mL
Date Prepared: 04/02/2010 1250

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	1.1	J	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	102		75 - 120
Dibromofluoromethane	112		75 - 121
Toluene-d8 (Surr)	103		75 - 120

Client: Ashland Inc. Job Number: 680-56303-1

Client Sample ID: **HP-111-52A**

Lab Sample ID: 680-56303-5 Date Sampled: 03/29/2010 1415
Client Matrix: Water Date Received: 03/31/2010 1333

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-164798 Instrument ID: MSO
Preparation: 5030B Lab File ID: o0373.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 04/02/2010 1319 Final Weight/Volume: 5 mL
Date Prepared: 04/02/2010 1319

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	3.2		0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	0.28	J	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	0.85	J	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-56303-1

Client Sample ID: **HP-111-52A**

Lab Sample ID: 680-56303-5 Date Sampled: 03/29/2010 1415
Client Matrix: Water Date Received: 03/31/2010 1333

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-164798 Instrument ID: MSO
Preparation: 5030B Lab File ID: o0373.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 04/02/2010 1319 Final Weight/Volume: 5 mL
Date Prepared: 04/02/2010 1319

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	1.4	J	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	103		75 - 120
Dibromofluoromethane	114		75 - 121
Toluene-d8 (Surr)	103		75 - 120

Client: Ashland Inc. Job Number: 680-56303-1

Client Sample ID: **HP-111-52B**

Lab Sample ID: 680-56303-6 Date Sampled: 03/29/2010 1430
Client Matrix: Water Date Received: 03/31/2010 1333

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-164798 Instrument ID: MSO
Preparation: 5030B Lab File ID: o0375.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 04/02/2010 1349 Final Weight/Volume: 5 mL
Date Prepared: 04/02/2010 1349

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	7.9	J	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	0.20	J	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-56303-1

Client Sample ID: **HP-111-52B**

Lab Sample ID: 680-56303-6 Date Sampled: 03/29/2010 1430
Client Matrix: Water Date Received: 03/31/2010 1333

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-164798 Instrument ID: MSO
Preparation: 5030B Lab File ID: o0375.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 04/02/2010 1349 Final Weight/Volume: 5 mL
Date Prepared: 04/02/2010 1349

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	1.1	J	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	101		75 - 120
Dibromofluoromethane	111		75 - 121
Toluene-d8 (Surr)	105		75 - 120

Client: Ashland Inc. Job Number: 680-56303-1

Client Sample ID: **HP-111-53A**

Lab Sample ID: 680-56303-7 Date Sampled: 03/29/2010 1015
Client Matrix: Water Date Received: 03/31/2010 1333

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-164798 Instrument ID: MSO
Preparation: 5030B Lab File ID: o0377.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 04/02/2010 1418 Final Weight/Volume: 5 mL
Date Prepared: 04/02/2010 1418

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	7.6	J	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	1.1	J	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	0.23	J	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-56303-1

Client Sample ID: **HP-111-53A**

Lab Sample ID: 680-56303-7 Date Sampled: 03/29/2010 1015
Client Matrix: Water Date Received: 03/31/2010 1333

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-164798	Instrument ID:	MSO
Preparation:	5030B		Lab File ID:	o0377.d
Dilution:	1.0		Initial Weight/Volume:	5 mL
Date Analyzed:	04/02/2010 1418		Final Weight/Volume:	5 mL
Date Prepared:	04/02/2010 1418			

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	1.2	J	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	99		75 - 120
Dibromofluoromethane	114		75 - 121
Toluene-d8 (Surr)	104		75 - 120

Client: Ashland Inc. Job Number: 680-56303-1

Client Sample ID: **HP-111-53B**

Lab Sample ID: 680-56303-8 Date Sampled: 03/29/2010 1050
Client Matrix: Water Date Received: 03/31/2010 1333

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-164798		Instrument ID:	MSO
Preparation:	5030B			Lab File ID:	o0379.d
Dilution:	1.0			Initial Weight/Volume:	5 mL
Date Analyzed:	04/02/2010 1448			Final Weight/Volume:	5 mL
Date Prepared:	04/02/2010 1448				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	9.2	J	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	0.15	J	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-56303-1

Client Sample ID: **HP-111-53B**

Lab Sample ID: 680-56303-8 Date Sampled: 03/29/2010 1050
Client Matrix: Water Date Received: 03/31/2010 1333

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-164798	Instrument ID:	MSO
Preparation:	5030B		Lab File ID:	o0379.d
Dilution:	1.0		Initial Weight/Volume:	5 mL
Date Analyzed:	04/02/2010 1448		Final Weight/Volume:	5 mL
Date Prepared:	04/02/2010 1448			

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	0.81	J	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	98		75 - 120
Dibromofluoromethane	110		75 - 121
Toluene-d8 (Surr)	105		75 - 120

Client: Ashland Inc. Job Number: 680-56303-1

Client Sample ID: **HP-111-55A**

Lab Sample ID: 680-56303-9 Date Sampled: 03/30/2010 1530
Client Matrix: Water Date Received: 03/31/2010 1333

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-164798 Instrument ID: MSO
Preparation: 5030B Lab File ID: o0381.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 04/02/2010 1517 Final Weight/Volume: 5 mL
Date Prepared: 04/02/2010 1517

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	0.31	J	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-56303-1

Client Sample ID: **HP-111-55A**

Lab Sample ID: 680-56303-9 Date Sampled: 03/30/2010 1530
Client Matrix: Water Date Received: 03/31/2010 1333

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-164798 Instrument ID: MSO
Preparation: 5030B Lab File ID: o0381.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 04/02/2010 1517 Final Weight/Volume: 5 mL
Date Prepared: 04/02/2010 1517

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	0.38	J	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	102		75 - 120
Dibromofluoromethane	111		75 - 121
Toluene-d8 (Surr)	105		75 - 120

Client: Ashland Inc. Job Number: 680-56303-1

Client Sample ID: **HP-111-55B**

Lab Sample ID: 680-56303-10 Date Sampled: 03/30/2010 1600
Client Matrix: Water Date Received: 03/31/2010 1333

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-164798 Instrument ID: MSO
Preparation: 5030B Lab File ID: o0383.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 04/02/2010 1546 Final Weight/Volume: 5 mL
Date Prepared: 04/02/2010 1546

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	8.8	J	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	1.1	J	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	0.16	J	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-56303-1

Client Sample ID: **HP-111-55B**

Lab Sample ID: 680-56303-10 Date Sampled: 03/30/2010 1600
Client Matrix: Water Date Received: 03/31/2010 1333

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-164798 Instrument ID: MSO
Preparation: 5030B Lab File ID: o0383.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 04/02/2010 1546 Final Weight/Volume: 5 mL
Date Prepared: 04/02/2010 1546

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	0.56	J	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	99		75 - 120
Dibromofluoromethane	107		75 - 121
Toluene-d8 (Surr)	104		75 - 120

Client: Ashland Inc. Job Number: 680-56303-1

Client Sample ID: **HP-111-56A**

Lab Sample ID: 680-56303-11 Date Sampled: 03/30/2010 1420
Client Matrix: Water Date Received: 03/31/2010 1333

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-164798 Instrument ID: MSO
Preparation: 5030B Lab File ID: o0385.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 04/02/2010 1616 Final Weight/Volume: 5 mL
Date Prepared: 04/02/2010 1616

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	1.8	J	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-56303-1

Client Sample ID: **HP-111-56A**

Lab Sample ID: 680-56303-11 Date Sampled: 03/30/2010 1420
Client Matrix: Water Date Received: 03/31/2010 1333

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-164798 Instrument ID: MSO
Preparation: 5030B Lab File ID: o0385.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 04/02/2010 1616 Final Weight/Volume: 5 mL
Date Prepared: 04/02/2010 1616

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	100		75 - 120
Dibromofluoromethane	111		75 - 121
Toluene-d8 (Surr)	107		75 - 120

Client: Ashland Inc. Job Number: 680-56303-1

Client Sample ID: **Trip Blank Lot 031010**

Lab Sample ID: 680-56303-12TB Date Sampled: 03/30/2010 0000
Client Matrix: Water Date Received: 03/31/2010 1333

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-164684		Instrument ID:	MSO
Preparation:	5030B			Lab File ID:	o0343.d
Dilution:	1.0			Initial Weight/Volume:	5 mL
Date Analyzed:	04/01/2010 1430			Final Weight/Volume:	5 mL
Date Prepared:	04/01/2010 1430				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-56303-1

Client Sample ID: **Trip Blank Lot 031010**

Lab Sample ID: 680-56303-12TB Date Sampled: 03/30/2010 0000
Client Matrix: Water Date Received: 03/31/2010 1333

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-164684	Instrument ID:	MSO
Preparation:	5030B		Lab File ID:	o0343.d
Dilution:	1.0		Initial Weight/Volume:	5 mL
Date Analyzed:	04/01/2010 1430		Final Weight/Volume:	5 mL
Date Prepared:	04/01/2010 1430			

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	102		75 - 120
Dibromofluoromethane	112		75 - 121
Toluene-d8 (Surr)	105		75 - 120

Client: Ashland Inc. Job Number: 680-56303-1

Client Sample ID: **HP-111-FB-1**

Lab Sample ID: 680-56303-13FB Date Sampled: 03/30/2010 1755
Client Matrix: Water Date Received: 03/31/2010 1333

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-164684 Instrument ID: MSO
Preparation: 5030B Lab File ID: o0345.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 04/01/2010 1500 Final Weight/Volume: 5 mL
Date Prepared: 04/01/2010 1500

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	7.6	J	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-56303-1

Client Sample ID: **HP-111-FB-1**

Lab Sample ID: 680-56303-13FB Date Sampled: 03/30/2010 1755
Client Matrix: Water Date Received: 03/31/2010 1333

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-164684	Instrument ID:	MSO
Preparation:	5030B		Lab File ID:	o0345.d
Dilution:	1.0		Initial Weight/Volume:	5 mL
Date Analyzed:	04/01/2010 1500		Final Weight/Volume:	5 mL
Date Prepared:	04/01/2010 1500			

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	102		75 - 120
Dibromofluoromethane	111		75 - 121
Toluene-d8 (Surr)	106		75 - 120

Client: Ashland Inc. Job Number: 680-56303-1

Client Sample ID: **HP-111-50A**

Lab Sample ID: 680-56303-1 Date Sampled: 03/30/2010 0930
Client Matrix: Water Date Received: 03/31/2010 1333

8081A_8082 Organochlorine Pesticides & PCBs (GC)

Method:	8081A_8082	Analysis Batch: 680-164810		Instrument ID:	SGJ
Preparation:	3520C	Prep Batch: 680-164624		Initial Weight/Volume:	500 mL
Dilution:	1.0			Final Weight/Volume:	5 mL
Date Analyzed:	04/02/2010 2059			Injection Volume:	2 uL
Date Prepared:	04/01/2010 1309			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Total	5.0	U	0.50	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	55		14 - 115
Tetrachloro-m-xylene	70		35 - 120

Client: Ashland Inc. Job Number: 680-56303-1

Client Sample ID: **HP-111-50B**

Lab Sample ID: 680-56303-2 Date Sampled: 03/30/2010 1000
Client Matrix: Water Date Received: 03/31/2010 1333

8081A_8082 Organochlorine Pesticides & PCBs (GC)

Method:	8081A_8082	Analysis Batch: 680-164810		Instrument ID:	SGJ
Preparation:	3520C	Prep Batch: 680-164624		Initial Weight/Volume:	500 mL
Dilution:	1.0			Final Weight/Volume:	5 mL
Date Analyzed:	04/02/2010 2122			Injection Volume:	2 uL
Date Prepared:	04/01/2010 1309			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Total	5.0	U	0.50	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	25		14 - 115
Tetrachloro-m-xylene	47		35 - 120

Client: Ashland Inc. Job Number: 680-56303-1

Client Sample ID: **HP-111-50C**

Lab Sample ID: 680-56303-3 Date Sampled: 03/30/2010 1030
Client Matrix: Water Date Received: 03/31/2010 1333

8081A_8082 Organochlorine Pesticides & PCBs (GC)

Method:	8081A_8082	Analysis Batch: 680-164810		Instrument ID:	SGJ
Preparation:	3520C	Prep Batch: 680-164624		Initial Weight/Volume:	500 mL
Dilution:	1.0			Final Weight/Volume:	5 mL
Date Analyzed:	04/02/2010 2146			Injection Volume:	2 uL
Date Prepared:	04/01/2010 1309			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Total	5.0	U	0.50	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	22		14 - 115
Tetrachloro-m-xylene	53		35 - 120

Client: Ashland Inc. Job Number: 680-56303-1

Client Sample ID: **HP-111-51A**

Lab Sample ID: 680-56303-4 Date Sampled: 03/29/2010 1545
Client Matrix: Water Date Received: 03/31/2010 1333

8081A_8082 Organochlorine Pesticides & PCBs (GC)

Method:	8081A_8082	Analysis Batch: 680-164810		Instrument ID:	SGJ
Preparation:	3520C	Prep Batch: 680-164624		Initial Weight/Volume:	500 mL
Dilution:	1.0			Final Weight/Volume:	5 mL
Date Analyzed:	04/02/2010 2209			Injection Volume:	2 uL
Date Prepared:	04/01/2010 1309			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Total	0.92	J	0.50	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	29		14 - 115
Tetrachloro-m-xylene	50		35 - 120

Client: Ashland Inc. Job Number: 680-56303-1

Client Sample ID: **HP-111-52A**

Lab Sample ID: 680-56303-5 Date Sampled: 03/29/2010 1415
Client Matrix: Water Date Received: 03/31/2010 1333

8081A_8082 Organochlorine Pesticides & PCBs (GC)

Method:	8081A_8082	Analysis Batch: 680-164810		Instrument ID:	SGJ
Preparation:	3520C	Prep Batch: 680-164624		Initial Weight/Volume:	500 mL
Dilution:	1.0			Final Weight/Volume:	5 mL
Date Analyzed:	04/02/2010 2232			Injection Volume:	2 uL
Date Prepared:	04/01/2010 1309			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Total	1.9	J	0.50	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	35		14 - 115
Tetrachloro-m-xylene	107		35 - 120

Client: Ashland Inc. Job Number: 680-56303-1

Client Sample ID: **HP-111-52B**

Lab Sample ID: 680-56303-6 Date Sampled: 03/29/2010 1430
Client Matrix: Water Date Received: 03/31/2010 1333

8081A_8082 Organochlorine Pesticides & PCBs (GC)

Method:	8081A_8082	Analysis Batch: 680-164810		Instrument ID:	SGJ
Preparation:	3520C	Prep Batch: 680-164624		Initial Weight/Volume:	500 mL
Dilution:	1.0			Final Weight/Volume:	5 mL
Date Analyzed:	04/02/2010 2255			Injection Volume:	2 uL
Date Prepared:	04/01/2010 1309			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Total	5.0	U	0.50	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	39		14 - 115
Tetrachloro-m-xylene	45		35 - 120

Client: Ashland Inc. Job Number: 680-56303-1

Client Sample ID: **HP-111-53A**

Lab Sample ID: 680-56303-7 Date Sampled: 03/29/2010 1015
Client Matrix: Water Date Received: 03/31/2010 1333

8081A_8082 Organochlorine Pesticides & PCBs (GC)

Method:	8081A_8082	Analysis Batch: 680-164810		Instrument ID:	SGJ
Preparation:	3520C	Prep Batch: 680-164624		Initial Weight/Volume:	500 mL
Dilution:	1.0			Final Weight/Volume:	5 mL
Date Analyzed:	04/02/2010 2320			Injection Volume:	2 uL
Date Prepared:	04/01/2010 1309			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Total	5.0	U	0.50	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	28		14 - 115
Tetrachloro-m-xylene	67		35 - 120

Client: Ashland Inc. Job Number: 680-56303-1

Client Sample ID: **HP-111-53B**

Lab Sample ID: 680-56303-8 Date Sampled: 03/29/2010 1050
Client Matrix: Water Date Received: 03/31/2010 1333

8081A_8082 Organochlorine Pesticides & PCBs (GC)

Method:	8081A_8082	Analysis Batch: 680-164810		Instrument ID:	SGJ
Preparation:	3520C	Prep Batch: 680-164624		Initial Weight/Volume:	500 mL
Dilution:	1.0			Final Weight/Volume:	5 mL
Date Analyzed:	04/02/2010 2344			Injection Volume:	2 uL
Date Prepared:	04/01/2010 1309			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Total	5.0	U	0.50	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	33		14 - 115
Tetrachloro-m-xylene	61		35 - 120

Client: Ashland Inc. Job Number: 680-56303-1

Client Sample ID: **HP-111-50A**

Lab Sample ID: 680-56303-1 Date Sampled: 03/30/2010 0930
Client Matrix: Water Date Received: 03/31/2010 1333

8081B/8082A Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Method:	8081B/8082A	Analysis Batch: 680-164809		Instrument ID:	SGJ
Preparation:	3520C	Prep Batch: 680-164624		Initial Weight/Volume:	500 mL
Dilution:	1.0			Final Weight/Volume:	5 mL
Date Analyzed:	04/02/2010 2059			Injection Volume:	2 uL
Date Prepared:	04/01/2010 1309			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Technical	5.0	U	0.50	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	51	p	14 - 115
Tetrachloro-m-xylene	66		35 - 120

Client: Ashland Inc. Job Number: 680-56303-1

Client Sample ID: **HP-111-50A**

Lab Sample ID: 680-56303-1 Date Sampled: 03/30/2010 0930
Client Matrix: Water Date Received: 03/31/2010 1333

8081B/8082A Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Method:	8081B/8082A	Analysis Batch: 680-164809		Instrument ID:	SGJ
Preparation:	3520C	Prep Batch: 680-164624		Initial Weight/Volume:	500 mL
Dilution:	1.0			Final Weight/Volume:	5 mL
Date Analyzed:	04/02/2010 2059			Injection Volume:	2 uL
Date Prepared:	04/01/2010 1309			Result Type:	SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	89		14 - 115
Tetrachloro-m-xylene	64		35 - 120

Client: Ashland Inc. Job Number: 680-56303-1

Client Sample ID: **HP-111-50B**

Lab Sample ID: 680-56303-2 Date Sampled: 03/30/2010 1000
Client Matrix: Water Date Received: 03/31/2010 1333

8081B/8082A Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Method:	8081B/8082A	Analysis Batch: 680-164809		Instrument ID:	SGJ
Preparation:	3520C	Prep Batch: 680-164624		Initial Weight/Volume:	500 mL
Dilution:	1.0			Final Weight/Volume:	5 mL
Date Analyzed:	04/02/2010 2122			Injection Volume:	2 uL
Date Prepared:	04/01/2010 1309			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Technical	5.0	U	0.50	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	36		14 - 115
Tetrachloro-m-xylene	47		35 - 120

Client: Ashland Inc. Job Number: 680-56303-1

Client Sample ID: **HP-111-50B**

Lab Sample ID: 680-56303-2 Date Sampled: 03/30/2010 1000
Client Matrix: Water Date Received: 03/31/2010 1333

8081B/8082A Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Method:	8081B/8082A	Analysis Batch: 680-164809		Instrument ID:	SGJ
Preparation:	3520C	Prep Batch: 680-164624		Initial Weight/Volume:	500 mL
Dilution:	1.0			Final Weight/Volume:	5 mL
Date Analyzed:	04/02/2010 2122			Injection Volume:	2 uL
Date Prepared:	04/01/2010 1309			Result Type:	SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	29		14 - 115
Tetrachloro-m-xylene	42		35 - 120

Client: Ashland Inc. Job Number: 680-56303-1

Client Sample ID: **HP-111-50C**

Lab Sample ID: 680-56303-3 Date Sampled: 03/30/2010 1030
Client Matrix: Water Date Received: 03/31/2010 1333

8081B/8082A Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Method:	8081B/8082A	Analysis Batch: 680-164809		Instrument ID:	SGJ
Preparation:	3520C	Prep Batch: 680-164624		Initial Weight/Volume:	500 mL
Dilution:	1.0			Final Weight/Volume:	5 mL
Date Analyzed:	04/02/2010 2146			Injection Volume:	2 uL
Date Prepared:	04/01/2010 1309			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Technical	5.0	U	0.50	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	19	p	14 - 115
Tetrachloro-m-xylene	50		35 - 120

Client: Ashland Inc. Job Number: 680-56303-1

Client Sample ID: **HP-111-50C**

Lab Sample ID: 680-56303-3 Date Sampled: 03/30/2010 1030
Client Matrix: Water Date Received: 03/31/2010 1333

8081B/8082A Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Method:	8081B/8082A	Analysis Batch: 680-164809		Instrument ID:	SGJ
Preparation:	3520C	Prep Batch: 680-164624		Initial Weight/Volume:	500 mL
Dilution:	1.0			Final Weight/Volume:	5 mL
Date Analyzed:	04/02/2010 2146			Injection Volume:	2 uL
Date Prepared:	04/01/2010 1309			Result Type:	SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	33		14 - 115
Tetrachloro-m-xylene	45		35 - 120

Client: Ashland Inc. Job Number: 680-56303-1

Client Sample ID: **HP-111-51A**

Lab Sample ID: 680-56303-4 Date Sampled: 03/29/2010 1545
Client Matrix: Water Date Received: 03/31/2010 1333

8081B/8082A Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Method:	8081B/8082A	Analysis Batch: 680-164809		Instrument ID:	SGJ
Preparation:	3520C	Prep Batch: 680-164624		Initial Weight/Volume:	500 mL
Dilution:	1.0			Final Weight/Volume:	5 mL
Date Analyzed:	04/02/2010 2209			Injection Volume:	2 uL
Date Prepared:	04/01/2010 1309			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Technical	5.0	U	0.50	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	37		14 - 115
Tetrachloro-m-xylene	67		35 - 120

Client: Ashland Inc. Job Number: 680-56303-1

Client Sample ID: **HP-111-51A**

Lab Sample ID: 680-56303-4 Date Sampled: 03/29/2010 1545
Client Matrix: Water Date Received: 03/31/2010 1333

8081B/8082A Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Method:	8081B/8082A	Analysis Batch: 680-164809		Instrument ID:	SGJ
Preparation:	3520C	Prep Batch: 680-164624		Initial Weight/Volume:	500 mL
Dilution:	1.0			Final Weight/Volume:	5 mL
Date Analyzed:	04/02/2010 2209			Injection Volume:	2 uL
Date Prepared:	04/01/2010 1309			Result Type:	SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	30		14 - 115
Tetrachloro-m-xylene	48		35 - 120

Client: Ashland Inc. Job Number: 680-56303-1

Client Sample ID: **HP-111-52A**

Lab Sample ID: 680-56303-5 Date Sampled: 03/29/2010 1415
Client Matrix: Water Date Received: 03/31/2010 1333

8081B/8082A Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Method:	8081B/8082A	Analysis Batch: 680-164809		Instrument ID:	SGJ
Preparation:	3520C	Prep Batch: 680-164624		Initial Weight/Volume:	500 mL
Dilution:	1.0			Final Weight/Volume:	5 mL
Date Analyzed:	04/02/2010 2232			Injection Volume:	2 uL
Date Prepared:	04/01/2010 1309			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Technical	5.0	U	0.50	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	35	p	14 - 115
Tetrachloro-m-xylene	76		35 - 120

Client: Ashland Inc. Job Number: 680-56303-1

Client Sample ID: **HP-111-52A**

Lab Sample ID: 680-56303-5 Date Sampled: 03/29/2010 1415
Client Matrix: Water Date Received: 03/31/2010 1333

8081B/8082A Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Method:	8081B/8082A	Analysis Batch: 680-164809		Instrument ID:	SGJ
Preparation:	3520C	Prep Batch: 680-164624		Initial Weight/Volume:	500 mL
Dilution:	1.0			Final Weight/Volume:	5 mL
Date Analyzed:	04/02/2010 2232			Injection Volume:	2 uL
Date Prepared:	04/01/2010 1309			Result Type:	SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	54		14 - 115
Tetrachloro-m-xylene	73		35 - 120

Client: Ashland Inc. Job Number: 680-56303-1

Client Sample ID: **HP-111-52B**

Lab Sample ID: 680-56303-6 Date Sampled: 03/29/2010 1430
Client Matrix: Water Date Received: 03/31/2010 1333

8081B/8082A Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Method:	8081B/8082A	Analysis Batch: 680-164809		Instrument ID:	SGJ
Preparation:	3520C	Prep Batch: 680-164624		Initial Weight/Volume:	500 mL
Dilution:	1.0			Final Weight/Volume:	5 mL
Date Analyzed:	04/02/2010 2255			Injection Volume:	2 uL
Date Prepared:	04/01/2010 1309			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Technical	5.0	U	0.50	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	40	p	14 - 115
Tetrachloro-m-xylene	51		35 - 120

Client: Ashland Inc. Job Number: 680-56303-1

Client Sample ID: **HP-111-52B**

Lab Sample ID: 680-56303-6 Date Sampled: 03/29/2010 1430
Client Matrix: Water Date Received: 03/31/2010 1333

8081B/8082A Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Method:	8081B/8082A	Analysis Batch: 680-164809		Instrument ID:	SGJ
Preparation:	3520C	Prep Batch: 680-164624		Initial Weight/Volume:	500 mL
Dilution:	1.0			Final Weight/Volume:	5 mL
Date Analyzed:	04/02/2010 2255			Injection Volume:	2 uL
Date Prepared:	04/01/2010 1309			Result Type:	SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	65		14 - 115
Tetrachloro-m-xylene	45		35 - 120

Client: Ashland Inc. Job Number: 680-56303-1

Client Sample ID: **HP-111-53A**

Lab Sample ID: 680-56303-7 Date Sampled: 03/29/2010 1015
Client Matrix: Water Date Received: 03/31/2010 1333

8081B/8082A Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Method:	8081B/8082A	Analysis Batch: 680-164809		Instrument ID:	SGJ
Preparation:	3520C	Prep Batch: 680-164624		Initial Weight/Volume:	500 mL
Dilution:	1.0			Final Weight/Volume:	5 mL
Date Analyzed:	04/02/2010 2320			Injection Volume:	2 uL
Date Prepared:	04/01/2010 1309			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Technical	5.0	U	0.50	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	27	p	14 - 115
Tetrachloro-m-xylene	59		35 - 120

Client: Ashland Inc. Job Number: 680-56303-1

Client Sample ID: **HP-111-53A**

Lab Sample ID: 680-56303-7 Date Sampled: 03/29/2010 1015
Client Matrix: Water Date Received: 03/31/2010 1333

8081B/8082A Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Method:	8081B/8082A	Analysis Batch: 680-164809		Instrument ID:	SGJ
Preparation:	3520C	Prep Batch: 680-164624		Initial Weight/Volume:	500 mL
Dilution:	1.0			Final Weight/Volume:	5 mL
Date Analyzed:	04/02/2010 2320			Injection Volume:	2 uL
Date Prepared:	04/01/2010 1309			Result Type:	SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	51		14 - 115
Tetrachloro-m-xylene	53		35 - 120

Client: Ashland Inc. Job Number: 680-56303-1

Client Sample ID: **HP-111-53B**

Lab Sample ID: 680-56303-8 Date Sampled: 03/29/2010 1050
Client Matrix: Water Date Received: 03/31/2010 1333

8081B/8082A Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Method:	8081B/8082A	Analysis Batch: 680-164809		Instrument ID:	SGJ
Preparation:	3520C	Prep Batch: 680-164624		Initial Weight/Volume:	500 mL
Dilution:	1.0			Final Weight/Volume:	5 mL
Date Analyzed:	04/02/2010 2344			Injection Volume:	2 uL
Date Prepared:	04/01/2010 1309			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Technical	5.0	U	0.50	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	57		14 - 115
Tetrachloro-m-xylene	59		35 - 120

Client: Ashland Inc. Job Number: 680-56303-1

Client Sample ID: **HP-111-53B**

Lab Sample ID: 680-56303-8 Date Sampled: 03/29/2010 1050
Client Matrix: Water Date Received: 03/31/2010 1333

8081B/8082A Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Method:	8081B/8082A	Analysis Batch: 680-164809		Instrument ID:	SGJ
Preparation:	3520C	Prep Batch: 680-164624		Initial Weight/Volume:	500 mL
Dilution:	1.0			Final Weight/Volume:	5 mL
Date Analyzed:	04/02/2010 2344			Injection Volume:	2 uL
Date Prepared:	04/01/2010 1309			Result Type:	SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	39		14 - 115
Tetrachloro-m-xylene	52		35 - 120

Client: Ashland Inc. Job Number: 680-56303-1

Client Sample ID: **HP-111-50A**

Lab Sample ID: 680-56303-1 Date Sampled: 03/30/2010 0930
Client Matrix: Water Date Received: 03/31/2010 1333

6010B Metals (ICP)-Total Recoverable

Method:	6010B	Analysis Batch: 680-165174		Instrument ID:	ICPD
Preparation:	3005A	Prep Batch: 680-164645		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	04/07/2010 1806			Final Weight/Volume:	50 mL
Date Prepared:	04/01/2010 1134				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	20	U	5.2	20
Arsenic	17	J	10	20
Barium	140		2.0	10
Beryllium	1.5	J	0.10	4.0
Cadmium	5.0	U	2.0	5.0
Chromium	50		2.0	10
Cobalt	7.0	J	1.0	10
Copper	12	J	5.0	20
Lead	11		3.4	10
Nickel	24	J	4.0	40
Selenium	20	U	6.4	20
Silver	10	U	0.97	10
Thallium	25	U	8.7	25
Tin	50	U	5.4	50
Vanadium	66		3.0	10
Zinc	200		6.3	20

7470A Mercury (CVAA)

Method:	7470A	Analysis Batch: 680-164779		Instrument ID:	LEEMAN1
Preparation:	7470A	Prep Batch: 680-164726		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	04/02/2010 1626			Final Weight/Volume:	50 mL
Date Prepared:	04/02/2010 0954				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.091	0.20

Client: Ashland Inc. Job Number: 680-56303-1

Client Sample ID: **HP-111-50B**

Lab Sample ID: 680-56303-2 Date Sampled: 03/30/2010 1000
Client Matrix: Water Date Received: 03/31/2010 1333

6010B Metals (ICP)-Total Recoverable

Method:	6010B	Analysis Batch: 680-165174		Instrument ID:	ICPD
Preparation:	3005A	Prep Batch: 680-164645		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	04/07/2010 1811			Final Weight/Volume:	50 mL
Date Prepared:	04/01/2010 1134				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	20	U	5.2	20
Arsenic	15	J	10	20
Barium	150		2.0	10
Beryllium	1.0	J	0.10	4.0
Cadmium	5.0	U	2.0	5.0
Chromium	57		2.0	10
Cobalt	8.4	J	1.0	10
Copper	11	J	5.0	20
Lead	13		3.4	10
Nickel	19	J	4.0	40
Selenium	20	U	6.4	20
Silver	10	U	0.97	10
Thallium	25	U	8.7	25
Tin	50	U	5.4	50
Vanadium	56		3.0	10
Zinc	52		6.3	20

7470A Mercury (CVAA)

Method:	7470A	Analysis Batch: 680-164779		Instrument ID:	LEEMAN1
Preparation:	7470A	Prep Batch: 680-164726		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	04/02/2010 1634			Final Weight/Volume:	50 mL
Date Prepared:	04/02/2010 0954				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.091	0.20

Client: Ashland Inc. Job Number: 680-56303-1

Client Sample ID: **HP-111-50C**

Lab Sample ID: 680-56303-3 Date Sampled: 03/30/2010 1030
Client Matrix: Water Date Received: 03/31/2010 1333

6010B Metals (ICP)-Total Recoverable

Method:	6010B	Analysis Batch: 680-165174		Instrument ID:	ICPD
Preparation:	3005A	Prep Batch: 680-164645		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	04/07/2010 1816			Final Weight/Volume:	50 mL
Date Prepared:	04/01/2010 1134				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	20	U	5.2	20
Arsenic	20	U	10	20
Barium	97		2.0	10
Beryllium	0.24	J	0.10	4.0
Cadmium	5.0	U	2.0	5.0
Chromium	28		2.0	10
Cobalt	1.5	J	1.0	10
Copper	9.6	J	5.0	20
Lead	10	U	3.4	10
Nickel	11	J	4.0	40
Selenium	20	U	6.4	20
Silver	10	U	0.97	10
Thallium	25	U	8.7	25
Tin	50	U	5.4	50
Vanadium	21		3.0	10
Zinc	50		6.3	20

7470A Mercury (CVAA)

Method:	7470A	Analysis Batch: 680-164779		Instrument ID:	LEEMAN1
Preparation:	7470A	Prep Batch: 680-164726		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	04/02/2010 1637			Final Weight/Volume:	50 mL
Date Prepared:	04/02/2010 0954				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.091	0.20

Client: Ashland Inc. Job Number: 680-56303-1

Client Sample ID: **HP-111-51A**

Lab Sample ID: 680-56303-4 Date Sampled: 03/29/2010 1545
Client Matrix: Water Date Received: 03/31/2010 1333

6010B Metals (ICP)-Total Recoverable

Method:	6010B	Analysis Batch: 680-165174		Instrument ID:	ICPD
Preparation:	3005A	Prep Batch: 680-164645		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	04/07/2010 1852			Final Weight/Volume:	50 mL
Date Prepared:	04/01/2010 1134				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	7.1	J	5.2	20
Arsenic	410		10	20
Barium	580		2.0	10
Beryllium	8.1		0.10	4.0
Cadmium	2.4	J	2.0	5.0
Chromium	360		2.0	10
Cobalt	91		1.0	10
Copper	100		5.0	20
Lead	81		3.4	10
Nickel	190		4.0	40
Selenium	6.6	J	6.4	20
Silver	10	U	0.97	10
Thallium	25	U	8.7	25
Tin	50	U	5.4	50
Vanadium	220		3.0	10
Zinc	1300		6.3	20

7470A Mercury (CVAA)

Method:	7470A	Analysis Batch: 680-164779		Instrument ID:	LEEMAN1
Preparation:	7470A	Prep Batch: 680-164726		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	04/02/2010 1640			Final Weight/Volume:	50 mL
Date Prepared:	04/02/2010 0954				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.11	J	0.091	0.20

Client: Ashland Inc. Job Number: 680-56303-1

Client Sample ID: **HP-111-52A**

Lab Sample ID: 680-56303-5 Date Sampled: 03/29/2010 1415
Client Matrix: Water Date Received: 03/31/2010 1333

6010B Metals (ICP)-Total Recoverable

Method:	6010B	Analysis Batch: 680-165174		Instrument ID:	ICPD
Preparation:	3005A	Prep Batch: 680-164645		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	04/07/2010 1858			Final Weight/Volume:	50 mL
Date Prepared:	04/01/2010 1134				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	20	U	5.2	20
Arsenic	37		10	20
Barium	1000		2.0	10
Beryllium	6.7		0.10	4.0
Cadmium	5.0	U	2.0	5.0
Chromium	89		2.0	10
Cobalt	22		1.0	10
Copper	12	J	5.0	20
Lead	14		3.4	10
Nickel	42		4.0	40
Selenium	20	U	6.4	20
Silver	10	U	0.97	10
Thallium	25	U	8.7	25
Tin	50	U	5.4	50
Vanadium	130		3.0	10
Zinc	560		6.3	20

7470A Mercury (CVAA)

Method:	7470A	Analysis Batch: 680-164779		Instrument ID:	LEEMAN1
Preparation:	7470A	Prep Batch: 680-164726		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	04/02/2010 1643			Final Weight/Volume:	50 mL
Date Prepared:	04/02/2010 0954				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.091	0.20

Client: Ashland Inc. Job Number: 680-56303-1

Client Sample ID: **HP-111-52B**

Lab Sample ID: 680-56303-6 Date Sampled: 03/29/2010 1430
Client Matrix: Water Date Received: 03/31/2010 1333

6010B Metals (ICP)-Total Recoverable

Method:	6010B	Analysis Batch: 680-165174		Instrument ID:	ICPD
Preparation:	3005A	Prep Batch: 680-164645		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	04/07/2010 1903			Final Weight/Volume:	50 mL
Date Prepared:	04/01/2010 1134				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	7.7	J	5.2	20
Arsenic	63		10	20
Barium	200		2.0	10
Beryllium	2.7	J	0.10	4.0
Cadmium	5.0	U	2.0	5.0
Chromium	150		2.0	10
Cobalt	5.9	J	1.0	10
Copper	39		5.0	20
Lead	16		3.4	10
Nickel	23	J	4.0	40
Selenium	20	U	6.4	20
Silver	10	U	0.97	10
Thallium	25	U	8.7	25
Tin	50	U	5.4	50
Vanadium	79		3.0	10
Zinc	110		6.3	20

7470A Mercury (CVAA)

Method:	7470A	Analysis Batch: 680-164779		Instrument ID:	LEEMAN1
Preparation:	7470A	Prep Batch: 680-164726		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	04/02/2010 1646			Final Weight/Volume:	50 mL
Date Prepared:	04/02/2010 0954				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.091	0.20

Client: Ashland Inc. Job Number: 680-56303-1

Client Sample ID: **HP-111-53A**

Lab Sample ID: 680-56303-7 Date Sampled: 03/29/2010 1015
Client Matrix: Water Date Received: 03/31/2010 1333

6010B Metals (ICP)-Total Recoverable

Method:	6010B	Analysis Batch: 680-165174		Instrument ID:	ICPD
Preparation:	3005A	Prep Batch: 680-164645		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	04/07/2010 1908			Final Weight/Volume:	50 mL
Date Prepared:	04/01/2010 1134				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	20	U	5.2	20
Arsenic	110		10	20
Barium	500		2.0	10
Beryllium	5.9		0.10	4.0
Cadmium	5.0	U	2.0	5.0
Chromium	100		2.0	10
Cobalt	37		1.0	10
Copper	46		5.0	20
Lead	28		3.4	10
Nickel	70		4.0	40
Selenium	20	U	6.4	20
Silver	10	U	0.97	10
Thallium	25	U	8.7	25
Tin	50	U	5.4	50
Vanadium	82		3.0	10
Zinc	680		6.3	20

7470A Mercury (CVAA)

Method:	7470A	Analysis Batch: 680-164779		Instrument ID:	LEEMAN1
Preparation:	7470A	Prep Batch: 680-164726		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	04/02/2010 1655			Final Weight/Volume:	50 mL
Date Prepared:	04/02/2010 0954				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.091	0.20

Client: Ashland Inc. Job Number: 680-56303-1

Client Sample ID: **HP-111-53B**

Lab Sample ID: 680-56303-8 Date Sampled: 03/29/2010 1050
Client Matrix: Water Date Received: 03/31/2010 1333

6010B Metals (ICP)-Total Recoverable

Method: 6010B Analysis Batch: 680-165174 Instrument ID: ICPD
Preparation: 3005A Prep Batch: 680-164645 Lab File ID: N/A
Dilution: 1.0 Initial Weight/Volume: 50 mL
Date Analyzed: 04/07/2010 1913 Final Weight/Volume: 50 mL
Date Prepared: 04/01/2010 1134

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	5.6	J	5.2	20
Arsenic	27		10	20
Barium	190		2.0	10
Beryllium	1.1	J	0.10	4.0
Cadmium	5.0	U	2.0	5.0
Chromium	200		2.0	10
Cobalt	6.3	J	1.0	10
Copper	130		5.0	20
Lead	23		3.4	10
Nickel	36	J	4.0	40
Selenium	20	U	6.4	20
Silver	10	U	0.97	10
Thallium	25	U	8.7	25
Tin	7.5	J	5.4	50
Vanadium	46		3.0	10
Zinc	91		6.3	20

7470A Mercury (CVAA)

Method: 7470A Analysis Batch: 680-164779 Instrument ID: LEEMAN1
Preparation: 7470A Prep Batch: 680-164726 Lab File ID: N/A
Dilution: 1.0 Initial Weight/Volume: 50 mL
Date Analyzed: 04/02/2010 1657 Final Weight/Volume: 50 mL
Date Prepared: 04/02/2010 0954

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.091	0.20

DATA REPORTING QUALIFIERS

Client: Ashland Inc. Job Number: 680-56303-1

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
GC Semi VOA		
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	X	Surrogate is outside control limits
	p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
Metals		
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

QUALITY CONTROL RESULTS

Client: Ashland Inc. Job Number: 680-56303-1

QCtAssociaaioetSommary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:680-164684					
LCS 680-164684/7	Lab Control Sample	T	W8u A	8260B	
LCSD 680-164684/8	Lab Control Sample Duplicate	T	Water	8260B	
MB 680-164684/10	Method Blank	T	Water	8260B	
680-56303-2	HP-111-50B	T	Water	8260B	
680-56303-12TB	Trip Blank Lot 031010	T	Water	8260B	
680-56303-13FB	HP-111-FB-1	T	Water	8260B	
Analysis Batch:680-164798					
LCS 680-164798/6	Lab Control Sample	T	Water	8260B	
LCSD 680-164798/7	Lab Control Sample Duplicate	T	Water	8260B	
MB 680-164798/9	Method Blank	T	Water	8260B	
680-56303-1	HP-111-50A	T	Water	8260B	
680-56303-3	HP-111-50C	T	Water	8260B	
680-56303-4	HP-111-51A	T	Water	8260B	
680-56303-5	HP-111-52A	T	Water	8260B	
680-56303-6	HP-111-52B	T	Water	8260B	
680-56303-7	HP-111-53A	T	Water	8260B	
680-56303-8	HP-111-53B	T	Water	8260B	
680-56303-9	HP-111-55A	T	Water	8260B	
680-56303-10	HP-111-55B	T	Water	8260B	
680-56303-11	HP-111-56A	T	Water	8260B	

Report Basis
T = Total

Client: Ashland Inc. Job Number: 680-56303-1

QCtAssociaaioetSommary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 680-164624					
LCS 680-164624/25-A	Lab Control Sample	T	W8u A	3520C	
LCSD 680-164624/26-A	Lab Control Sample Duplicate	T	Water	3520C	
MB 680-164624/18-A	Method Blank	T	Water	3520C	
680-56303-1	HP-111-50A	T	Water	3520C	
680-56303-2	HP-111-50B	T	Water	3520C	
680-56303-3	HP-111-50C	T	Water	3520C	
680-56303-4	HP-111-51A	T	Water	3520C	
680-56303-5	HP-111-52A	T	Water	3520C	
680-56303-6	HP-111-52B	T	Water	3520C	
680-56303-7	HP-111-53A	T	Water	3520C	
680-56303-8	HP-111-53B	T	Water	3520C	
Analysis Batch:680-164809					
LCS 680-164624/25-A	Lab Control Sample	T	Water	8081B/8082A	680-164624
LCSD 680-164624/26-A	Lab Control Sample Duplicate	T	Water	8081B/8082A	680-164624
MB 680-164624/18-A	Method Blank	T	Water	8081B/8082A	680-164624
680-56303-1	HP-111-50A	T	Water	8081B/8082A	680-164624
680-56303-2	HP-111-50B	T	Water	8081B/8082A	680-164624
680-56303-3	HP-111-50C	T	Water	8081B/8082A	680-164624
680-56303-4	HP-111-51A	T	Water	8081B/8082A	680-164624
680-56303-5	HP-111-52A	T	Water	8081B/8082A	680-164624
680-56303-6	HP-111-52B	T	Water	8081B/8082A	680-164624
680-56303-7	HP-111-53A	T	Water	8081B/8082A	680-164624
680-56303-8	HP-111-53B	T	Water	8081B/8082A	680-164624
Analysis Batch:680-164810					
LCS 680-164624/25-A	Lab Control Sample	T	Water	8081A_8082	680-164624
LCSD 680-164624/26-A	Lab Control Sample Duplicate	T	Water	8081A_8082	680-164624
MB 680-164624/18-A	Method Blank	T	Water	8081A_8082	680-164624
680-56303-1	HP-111-50A	T	Water	8081A_8082	680-164624
680-56303-2	HP-111-50B	T	Water	8081A_8082	680-164624
680-56303-3	HP-111-50C	T	Water	8081A_8082	680-164624
680-56303-4	HP-111-51A	T	Water	8081A_8082	680-164624
680-56303-5	HP-111-52A	T	Water	8081A_8082	680-164624
680-56303-6	HP-111-52B	T	Water	8081A_8082	680-164624
680-56303-7	HP-111-53A	T	Water	8081A_8082	680-164624
680-56303-8	HP-111-53B	T	Water	8081A_8082	680-164624

Report Basis
T = Total

Client: Ashland Inc. Job Number: 680-56303-1

QCtAssociaaioetSommary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 680-164645					
LCS 680-164645/11-A	Lab Control Sample	R	W8u A	3005A	
MB 680-164645/10-A	Method Blank	R	Water	3005A	
680-56303-1	HP-111-50A	R	Water	3005A	
680-56303-2	HP-111-50B	R	Water	3005A	
680-56303-3	HP-111-50C	R	Water	3005A	
680-56303-3MS	Matrix Spike	R	Water	3005A	
680-56303-3MSD	Matrix Spike Duplicate	R	Water	3005A	
680-56303-4	HP-111-51A	R	Water	3005A	
680-56303-5	HP-111-52A	R	Water	3005A	
680-56303-6	HP-111-52B	R	Water	3005A	
680-56303-7	HP-111-53A	R	Water	3005A	
680-56303-8	HP-111-53B	R	Water	3005A	
Prep Batch: 680-164726					
LCS 680-164726/12-A	Lab Control Sample	T	Water	7470A	
MB 680-164726/11-A	Method Blank	T	Water	7470A	
680-56303-1	HP-111-50A	T	Water	7470A	
680-56303-1MS	Matrix Spike	T	Water	7470A	
680-56303-1MSD	Matrix Spike Duplicate	T	Water	7470A	
680-56303-2	HP-111-50B	T	Water	7470A	
680-56303-3	HP-111-50C	T	Water	7470A	
680-56303-4	HP-111-51A	T	Water	7470A	
680-56303-5	HP-111-52A	T	Water	7470A	
680-56303-6	HP-111-52B	T	Water	7470A	
680-56303-7	HP-111-53A	T	Water	7470A	
680-56303-8	HP-111-53B	T	Water	7470A	
Analysis Batch:680-164779					
LCS 680-164726/12-A	Lab Control Sample	T	Water	7470A	680-164726
MB 680-164726/11-A	Method Blank	T	Water	7470A	680-164726
680-56303-1	HP-111-50A	T	Water	7470A	680-164726
680-56303-1MS	Matrix Spike	T	Water	7470A	680-164726
680-56303-1MSD	Matrix Spike Duplicate	T	Water	7470A	680-164726
680-56303-2	HP-111-50B	T	Water	7470A	680-164726
680-56303-3	HP-111-50C	T	Water	7470A	680-164726
680-56303-4	HP-111-51A	T	Water	7470A	680-164726
680-56303-5	HP-111-52A	T	Water	7470A	680-164726
680-56303-6	HP-111-52B	T	Water	7470A	680-164726
680-56303-7	HP-111-53A	T	Water	7470A	680-164726
680-56303-8	HP-111-53B	T	Water	7470A	680-164726

Client: Ashland Inc. Job Number: 680-56303-1

QCtAssociaaioetSommary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:680-165174					
LCS 680-164645/11-A	Lab Control Sample	R	W8u A	6010B	680-164645
MB 680-164645/10-A	Method Blank	R	Water	6010B	680-164645
680-56303-1	HP-111-50A	R	Water	6010B	680-164645
680-56303-2	HP-111-50B	R	Water	6010B	680-164645
680-56303-3	HP-111-50C	R	Water	6010B	680-164645
680-56303-3MS	Matrix Spike	R	Water	6010B	680-164645
680-56303-3MSD	Matrix Spike Duplicate	R	Water	6010B	680-164645
680-56303-4	HP-111-51A	R	Water	6010B	680-164645
680-56303-5	HP-111-52A	R	Water	6010B	680-164645
680-56303-6	HP-111-52B	R	Water	6010B	680-164645
680-56303-7	HP-111-53A	R	Water	6010B	680-164645
680-56303-8	HP-111-53B	R	Water	6010B	680-164645

Report Basis

R = Total Recoverable

T = Total

Client: Ashland Inc.

Job Number: 680-56303-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

L0i eS0: pb e5D	Client Wam4le l2	BFB %Rec	DBFM %Rec	TOL %Rec
680-56303-1	HP-111-50A	101	111	104
680-56303-2	HP-111-50B	105	107	103
680-56303-3	HP-111-50C	101	94	104
680-56303-)	HP-111-51A	102	112	103
680-56303-5	HP-111-52A	103	114	103
680-56303-6	HP-111-52B	101	111	105
680-56303-7	HP-111-53A	99	114	104
680-56303-8	HP-111-53B	98	110	105
680-56303-9	HP-111-55A	102	111	105
680-56303-10	HP-111-55B	99	107	104
680-56303-11	HP-111-56A	100	111	107
680-56303-12	Trip Blank Lot 031010	102	112	105
680-56303-13	HP-111-FB-1	102	111	106
MB 680-164684/10		103	111	102
MB 680-164798/9		102	114	103
LCS 680-164684/7		107	112	102
LCS 680-164798/6		98	119	104
LCSD 680-164684/8		104	115	102
LCSD 680-164798/7		101	116	102

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene	75-120
DBFM = Dibromofluoromethane	75-121
TOL = Toluene-d8 (Surr)	75-120

Client: Ashland Inc.

Job Number: 680-56303-1

Surrogate Recovery Report

8081A_8082_Organochlorine Pesticides & PCBs (GC)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCB1 %Rec	TCX1 %Rec
680-56303-1	HP-111-50A	55	70
680-56303-2	HP-111-50B	25	47
680-56303-3	HP-111-50C	22	53
680-56303-4	HP-111-51A	29	50
680-56303-5	HP-111-52A	35	107
680-56303-6	HP-111-52B	39	45
680-56303-7	HP-111-53A	28	67
680-56303-8	HP-111-53B	33	61
MB 680-164624/18-A		61	77
LCS 680-164624/25-A		61	77
LCSD 680-164624/26-A		65	79

Surrogate	Acceptance Limits
DCB = DCB Decachlorobiphenyl	14-115
TCX = Tetrachloro-m-xylene	35-120

Client: Ashland Inc. Job Number: 680-56303-1

Surrogate Recovery Report

8081B/8082A Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCB1 %Rec	DCB2 %Rec	TCX1 %Rec	TCX2 %Rec
680-56303-1	HP-111-50A	51p	89	66	64
680-56303-2	HP-111-50B	29	36	47	42
680-56303-3	HP-111-50C	19p	33	45	50
680-56303-4	HP-111-51A	30	37	48	67
680-56303-5	HP-111-52A	35p	54	73	76
680-56303-6	HP-111-52B	40p	65	45	51
680-56303-7	HP-111-53A	27p	51	53	59
680-56303-8	HP-111-53B	39	57	59	52
MB 680-164624/18-A		56p	107	74	65
LCS 680-164624/25-A		58p	106	72	69
LCSD 680-164624/26-A		63p	119X	76	70

Surrogate	Acceptance Limits
DCB = DCB Decachlorobiphenyl	14-115
TCX = Tetrachloro-m-xylene	35-120

Method Blank - Batch: 680-164684 **Aeaco SCM260m**
Preparation: 5030B

Lab Sample ID: MB 680-164684/10
Client Matrix: W0t A
Dilution: 1.0
Date Analyzed: 04/01/2010 1134
Date Prepared: 04/01/2010 1134

Analysis Batch: 680-164684
Prep Batch: N/A
Units: ug/L

Instrument ID: MSO
Lab File ID: oq291.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0

Client: Ashland Inc.

Job Number: 680-56303-1

Method Blank - Batch: 680-164684

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-164684/10
Client Matrix: W0t A
Dilution: 1.0
Date Analyzed: 04/01/2010 1134
Date Prepared: 04/01/2010 1134

Analysis Batch: 680-164684
Prep Batch: N/A
Units: ug/L

Instrument ID: MSO
Lab File ID: oq291.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	103	75 - 120
Dibromofluoromethane	111	75 - 121
Toluene-d8 (Surr)	102	75 - 120

Client: Ashland Inc. Job Number: 680-56303-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-164684

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 680-164684/7
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/01/2010 0936
Date Prepared: 04/01/2010 0936

Analysis Batch: 680-164684
Prep Batch: N/A
Units: ug/L

Instrument ID: MSO
Lab File ID: oq283.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

LCSD Lab Sample ID: LCSD 680-164684/8
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/01/2010 1005
Date Prepared: 04/01/2010 1005

Analysis Batch: 680-164684
Prep Batch: N/A
Units: ug/L

Instrument ID: MSO
Lab File ID: oq285.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	95	108	17 - 175	12	50		
Benzene	101	102	77 - 119	1	30		
Bromoform	97	95	62 - 133	2	30		
Bromomethane	87	101	12 - 184	15	50		
2-Butanone (MEK)	103	108	33 - 157	4	30		
Carbon disulfide	108	109	55 - 131	1	30		
Carbon tetrachloride	106	111	71 - 135	5	30		
Chlorobenzene	107	104	85 - 116	2	30		
Chlorodibromomethane	119	117	75 - 133	2	30		
Chloroethane	93	94	40 - 165	1	50		
Chloroform	110	109	82 - 120	1	30		
Chloromethane	88	85	48 - 142	3	50		
cis-1,3-Dichloropropene	111	110	76 - 126	1	30		
1,2-Dibromo-3-Chloropropane	98	93	49 - 140	6	30		
Dibromomethane	102	99	78 - 119	3	30		
Dichlorobromomethane	102	102	78 - 127	1	30		
Dichlorodifluoromethane	114	117	34 - 154	3	30		
1,1-Dichloroethane	109	109	74 - 127	0	30		
1,2-Dichloroethane	92	93	66 - 132	1	30		
1,1-Dichloroethene	111	115	62 - 141	4	30		
1,2-Dichloropropane	97	96	73 - 124	1	30		
Ethylbenzene	106	106	86 - 116	0	30		
Ethylene Dibromide	102	102	80 - 121	1	30		
2-Hexanone	103	103	34 - 161	0	30		
Methylene Chloride	114	109	70 - 125	4	30		
4-Methyl-2-pentanone (MIBK)	99	101	40 - 151	2	30		
Styrene	107	106	82 - 122	1	30		
1,1,1,2-Tetrachloroethane	95	94	81 - 128	1	30		
1,1,2,2-Tetrachloroethane	108	105	69 - 129	3	30		
Tetrachloroethene	104	105	76 - 126	1	30		
Toluene	97	98	81 - 117	1	30		
trans-1,2-Dichloroethene	104	107	72 - 131	3	30		
trans-1,3-Dichloropropene	112	111	73 - 128	1	30		
1,1,1-Trichloroethane	101	104	76 - 127	3	30		

Client: Ashland Inc. Job Number: 680-56303-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-164684

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-164684/7	Analysis Batch:	680-164684	Instrument ID:	MSO
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	oq283.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	04/01/2010 0936			Final Weight/Volume:	5 mL
Date Prepared:	04/01/2010 0936				

LCSD Lab Sample ID:	LCSD 680-164684/8	Analysis Batch:	680-164684	Instrument ID:	MSO
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	oq285.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	04/01/2010 1005			Final Weight/Volume:	5 mL
Date Prepared:	04/01/2010 1005				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,1,2-Trichloroethane	98	96	75 - 121	2	30		
Trichloroethene	100	102	84 - 115	2	30		
Trichlorofluoromethane	85	90	58 - 149	5	50		
1,2,3-Trichloropropane	99	95	70 - 130	4	30		
Vinyl acetate	130	130	10 - 217	1	30		
Vinyl chloride	81	81	59 - 144	0	50		
Xylenes, Total	106	104	84 - 118	1	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	107	104	75 - 120
Dibromofluoromethane	112	115	75 - 121
Toluene-d8 (Surr)	102	102	75 - 120

Client: Ashland Inc. Job Number: 680-56303-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 680-164684

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-164684/7	Units:	ug/L	LCSD Lab Sample ID:	LCSD 680-164684/8
Client Matrix:	W0t A			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Date Analyzed:	04/01/2010 0936			Date Analyzed:	04/01/2010 1005
Date Prepared:	04/01/2010 0936			Date Prepared:	04/01/2010 1005

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Acetone	100	100	95.2	108
Benzene	50.0	50.0	50.6	51.0
Bromoform	50.0	50.0	48.6	47.6
Bromomethane	50.0	50.0	43.4	50.6
2-Butanone (MEK)	100	100	103	108
Carbon disulfide	50.0	50.0	54.1	54.6
Carbon tetrachloride	50.0	50.0	52.8	55.3
Chlorobenzene	50.0	50.0	53.3	52.1
Chlorodibromomethane	50.0	50.0	59.7	58.3
Chloroethane	50.0	50.0	46.5	47.0
Chloroform	50.0	50.0	54.9	54.3
Chloromethane	50.0	50.0	43.8	42.4
cis-1,3-Dichloropropene	50.0	50.0	55.5	55.0
1,2-Dibromo-3-Chloropropane	50.0	50.0	49.2	46.6
Dibromomethane	50.0	50.0	50.9	49.5
Dichlorobromomethane	50.0	50.0	51.1	50.8
Dichlorodifluoromethane	50.0	50.0	57.0	58.5
1,1-Dichloroethane	50.0	50.0	54.4	54.4
1,2-Dichloroethane	50.0	50.0	46.0	46.5
1,1-Dichloroethene	50.0	50.0	55.4	57.6
1,2-Dichloropropane	50.0	50.0	48.6	48.1
Ethylbenzene	50.0	50.0	52.8	53.0
Ethylene Dibromide	50.0	50.0	50.8	51.2
2-Hexanone	100	100	103	103
Methylene Chloride	50.0	50.0	56.8	54.4
4-Methyl-2-pentanone (MIBK)	100	100	98.8	101
Styrene	50.0	50.0	53.7	53.1
1,1,1,2-Tetrachloroethane	50.0	50.0	47.3	46.9
1,1,2,2-Tetrachloroethane	50.0	50.0	53.8	52.3
Tetrachloroethene	50.0	50.0	51.8	52.4
Toluene	50.0	50.0	48.5	49.0
trans-1,2-Dichloroethene	50.0	50.0	51.8	53.5
trans-1,3-Dichloropropene	50.0	50.0	55.9	55.4
1,1,1-Trichloroethane	50.0	50.0	50.6	52.2
1,1,2-Trichloroethane	50.0	50.0	48.8	47.9
Trichloroethene	50.0	50.0	49.9	50.9
Trichlorofluoromethane	50.0	50.0	42.6	44.9
1,2,3-Trichloropropane	50.0	50.0	49.4	47.7
Vinyl acetate	100	100	130	130
Vinyl chloride	50.0	50.0	40.6	40.4
Xylenes, Total	150	150	159	156

Client: Ashland Inc. Job Number: 680-56303-1

Method Blank - Batch: 680-164798

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-164798/9
Client Matrix: W0t A
Dilution: 1.0
Date Analyzed: 04/02/2010 1122
Date Prepared: 04/02/2010 1122

Analysis Batch: 680-164798
Prep Batch: N/A
Units: ug/L

Instrument ID: MSO
Lab File ID: oq305.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0

Client: Ashland Inc.

Job Number: 680-56303-1

Method Blank - Batch: 680-164798

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-164798/9
Client Matrix: W0t A
Dilution: 1.0
Date Analyzed: 04/02/2010 1122
Date Prepared: 04/02/2010 1122

Analysis Batch: 680-164798
Prep Batch: N/A
Units: ug/L

Instrument ID: MSO
Lab File ID: oq305.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	102	75 - 120
Dibromofluoromethane	114	75 - 121
Toluene-d8 (Surr)	103	75 - 120

Client: Ashland Inc. Job Number: 680-56303-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-164798

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-164798/6	Analysis Batch:	680-164798	Instrument ID:	MSO
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	oq297.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	04/02/2010 0925			Final Weight/Volume:	5 mL
Date Prepared:	04/02/2010 0925				

LCSD Lab Sample ID:	LCSD 680-164798/7	Analysis Batch:	680-164798	Instrument ID:	MSO
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	oq299.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	04/02/2010 0954			Final Weight/Volume:	5 mL
Date Prepared:	04/02/2010 0954				

	% Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	104	108	17 - 175	4	50		
Benzene	102	101	77 - 119	1	30		
Bromoform	91	94	62 - 133	3	30		
Bromomethane	91	111	12 - 184	19	50		
2-Butanone (MEK)	107	111	33 - 157	4	30		
Carbon disulfide	113	109	55 - 131	3	30		
Carbon tetrachloride	114	111	71 - 135	3	30		
Chlorobenzene	99	100	85 - 116	1	30		
Chlorodibromomethane	109	113	75 - 133	3	30		
Chloroethane	73	91	40 - 165	22	50		
Chloroform	113	111	82 - 120	2	30		
Chloromethane	89	89	48 - 142	0	50		
cis-1,3-Dichloropropene	110	107	76 - 126	3	30		
1,2-Dibromo-3-Chloropropane	95	99	49 - 140	3	30		
Dibromomethane	98	99	78 - 119	1	30		
Dichlorobromomethane	100	101	78 - 127	1	30		
Dichlorodifluoromethane	122	120	34 - 154	2	30		
1,1-Dichloroethane	112	108	74 - 127	4	30		
1,2-Dichloroethane	92	91	66 - 132	2	30		
1,1-Dichloroethene	119	115	62 - 141	3	30		
1,2-Dichloropropane	100	94	73 - 124	6	30		
Ethylbenzene	100	101	86 - 116	1	30		
Ethylene Dibromide	102	102	80 - 121	0	30		
2-Hexanone	95	99	34 - 161	5	30		
Methylene Chloride	115	115	70 - 125	0	30		
4-Methyl-2-pentanone (MIBK)	99	101	40 - 151	2	30		
Styrene	100	102	82 - 122	1	30		
1,1,1,2-Tetrachloroethane	89	89	81 - 128	0	30		
1,1,2,2-Tetrachloroethane	101	102	69 - 129	1	30		
Tetrachloroethene	102	102	76 - 126	0	30		
Toluene	101	101	81 - 117	0	30		
trans-1,2-Dichloroethene	112	108	72 - 131	4	30		
trans-1,3-Dichloropropene	113	111	73 - 128	2	30		
1,1,1-Trichloroethane	105	103	76 - 127	1	30		

Client: Ashland Inc. Job Number: 680-56303-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-164798

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-164798/6	Analysis Batch:	680-164798	Instrument ID:	MSO
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	oq297.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	04/02/2010 0925			Final Weight/Volume:	5 mL
Date Prepared:	04/02/2010 0925				

LCSD Lab Sample ID:	LCSD 680-164798/7	Analysis Batch:	680-164798	Instrument ID:	MSO
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	oq299.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	04/02/2010 0954			Final Weight/Volume:	5 mL
Date Prepared:	04/02/2010 0954				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,1,2-Trichloroethane	99	97	75 - 121	2	30		
Trichloroethene	103	102	84 - 115	1	30		
Trichlorofluoromethane	94	90	58 - 149	4	50		
1,2,3-Trichloropropane	91	100	70 - 130	9	30		
Vinyl acetate	134	131	10 - 217	2	30		
Vinyl chloride	83	81	59 - 144	2	50		
Xylenes, Total	100	100	84 - 118	0	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	98	101	75 - 120
Dibromofluoromethane	119	116	75 - 121
Toluene-d8 (Surr)	104	102	75 - 120

Client: Ashland Inc. Job Number: 680-56303-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 680-164798

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-164798/6	Units:	ug/L	LCSD Lab Sample ID:	LCSD 680-164798/7
Client Matrix:	W0t A			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Date Analyzed:	04/02/2010 0925			Date Analyzed:	04/02/2010 0954
Date Prepared:	04/02/2010 0925			Date Prepared:	04/02/2010 0954

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Acetone	100	100	104	108
Benzene	50.0	50.0	51.2	50.5
Bromoform	50.0	50.0	45.6	47.2
Bromomethane	50.0	50.0	45.7	55.4
2-Butanone (MEK)	100	100	107	111
Carbon disulfide	50.0	50.0	56.4	54.7
Carbon tetrachloride	50.0	50.0	57.0	55.3
Chlorobenzene	50.0	50.0	49.6	50.2
Chlorodibromomethane	50.0	50.0	54.6	56.3
Chloroethane	50.0	50.0	36.3	45.3
Chloroform	50.0	50.0	56.7	55.6
Chloromethane	50.0	50.0	44.4	44.4
cis-1,3-Dichloropropene	50.0	50.0	55.0	53.4
1,2-Dibromo-3-Chloropropane	50.0	50.0	47.7	49.4
Dibromomethane	50.0	50.0	49.2	49.6
Dichlorobromomethane	50.0	50.0	50.2	50.7
Dichlorodifluoromethane	50.0	50.0	60.8	59.9
1,1-Dichloroethane	50.0	50.0	56.2	54.2
1,2-Dichloroethane	50.0	50.0	46.2	45.5
1,1-Dichloroethene	50.0	50.0	59.4	57.5
1,2-Dichloropropane	50.0	50.0	49.9	47.2
Ethylbenzene	50.0	50.0	50.0	50.5
Ethylene Dibromide	50.0	50.0	51.1	51.1
2-Hexanone	100	100	94.7	99.3
Methylene Chloride	50.0	50.0	57.6	57.6
4-Methyl-2-pentanone (MIBK)	100	100	98.9	101
Styrene	50.0	50.0	50.2	50.9
1,1,1,2-Tetrachloroethane	50.0	50.0	44.5	44.5
1,1,2,2-Tetrachloroethane	50.0	50.0	50.6	50.9
Tetrachloroethene	50.0	50.0	51.0	51.2
Toluene	50.0	50.0	50.5	50.6
trans-1,2-Dichloroethene	50.0	50.0	55.9	53.8
trans-1,3-Dichloropropene	50.0	50.0	56.6	55.6
1,1,1-Trichloroethane	50.0	50.0	52.3	51.6
1,1,2-Trichloroethane	50.0	50.0	49.6	48.6
Trichloroethene	50.0	50.0	51.4	50.8
Trichlorofluoromethane	50.0	50.0	47.2	45.2
1,2,3-Trichloropropane	50.0	50.0	45.5	49.8
Vinyl acetate	100	100	134	131
Vinyl chloride	50.0	50.0	41.4	40.5
Xylenes, Total	150	150	149	150

Method Blank - Batch: 680-164624

Method: 8081A_8082
Preparation: 3520C

Lab Sample ID: MB 680-164624/18-A
Client Matrix: W0t A
Dilution: 1.0
Date Analyzed: 04/02/2010 1558
Date Prepared: 04/01/2010 1309

Analysis Batch: 680-164810
Prep Batch: 680-164624
Units: ug/L

Instrument ID: SGJ
Lab File ID: jd02008.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
Toxaphene, Total	5.0	U	0.50	5.0

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	61	14 - 115
Tetrachloro-m-xylene	77	35 - 120

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-164624

Method: 8081A_8082
Preparation: 3520C

LCS Lab Sample ID: LCS 680-164624/25-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/02/2010 1708
Date Prepared: 04/01/2010 1309

Analysis Batch: 680-164810
Prep Batch: 680-164624
Units: ug/L

Instrument ID: SGJ
Lab File ID: jd02011.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/02/2010 1731
Date Prepared: 04/01/2010 1309

Analysis Batch: 680-164810
Prep Batch: 680-164624
Units: ug/L

Instrument ID: SGJ
Lab File ID: jd02012.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	% Rec. LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Toxaphene, Total	70	72	30 - 120	3	40		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
DCB Decachlorobiphenyl	61	65	14 - 115
Tetrachloro-m-xylene	77	79	35 - 120

Client: Ashland Inc. Job Number: 680-56303-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 680-164624

Method: 8081A_8082
Preparation: 3520C

LCS Lab Sample ID:	LCS 680-164624/25-A	Units:	ug/L	LCSD Lab Sample ID:	LCSD 680-164624/26-A
Client Matrix:	W0t A			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Date Analyzed:	04/02/2010 1708			Date Analyzed:	04/02/2010 1731
Date Prepared:	04/01/2010 1309			Date Prepared:	04/01/2010 1309

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Toxaphene, Total	10.0	10.0	6.97	7.20

Client: Ashland Inc. Job Number: 680-56303-1

Method Blank - Batch: 680-164624

Method: 8081B/8082A
Preparation: 3520C

Lab Sample ID: MB 680-164624/18-A
Client Matrix: W0t A
Dilution: 1.0
Date Analyzed: 04/02/2010 1558
Date Prepared: 04/01/2010 1309

Analysis Batch: 680-164809
Prep Batch: 680-164624
Units: ug/L

Instrument ID: SGJ
Lab File ID: jd02008.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
Toxaphene, Technical	5.0	U	0.50	5.0

Surrogate	% Rec		Acceptance Limits
DCB Decachlorobiphenyl	56	p	14 - 115
Tetrachloro-m-xylene	74		35 - 120

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	107	14 - 115
Tetrachloro-m-xylene	65	35 - 120

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-164624

Method: 8081B/8082A
Preparation: 3520C

LCS Lab Sample ID:	LCS 680-164624/25-A	Analysis Batch:	680-164809	Instrument ID:	SGJ
Client Matrix:	Water	Prep Batch:	680-164624	Lab File ID:	jd02011.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	1000 mL
Date Analyzed:	04/02/2010 1708			Final Weight/Volume:	10 mL
Date Prepared:	04/01/2010 1309			Injection Volume:	2 uL
				Column ID:	PRIMARY

LCSD Lab Sample ID:	LCSD	Analysis Batch:	680-164809	Instrument ID:	SGJ
Client Matrix:	Water	Prep Batch:	680-164624	Lab File ID:	jd02012.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	1000 mL
Date Analyzed:	04/02/2010 1731			Final Weight/Volume:	10 mL
Date Prepared:	04/01/2010 1309			Injection Volume:	2 uL
				Column ID:	PRIMARY

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Toxaphene, Technical	71	84	30 - 120	17	40		

Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits
DCB Decachlorobiphenyl	58	p	63	p	14 - 115
Tetrachloro-m-xylene	72		76		35 - 120

Surrogate	LCS % Rec	LCSD % Rec		Acceptance Limits
DCB Decachlorobiphenyl	106	119	X	14 - 115
Tetrachloro-m-xylene	69	70		35 - 120

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 680-164624

Method: 8081B/8082A
Preparation: 3520C

LCS Lab Sample ID:	LCS 680-164624/25-A	Units:	ug/L	LCSD Lab Sample ID:	LCSD 680-164624/26-A
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Date Analyzed:	04/02/2010 1708			Date Analyzed:	04/02/2010 1731
Date Prepared:	04/01/2010 1309			Date Prepared:	04/01/2010 1309

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Toxaphene, Technical	10.0	10.0	7.08	8.40

Client: Ashland Inc. Job Number: 680-56303-1

Method Blank - Batch: 680-164645

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID: MB 680-164645/10-A
Client Matrix: W0t A
Dilution: 1.0
Date Analyzed: 04/08/2010 1009
Date Prepared: 04/01/2010 1134

Analysis Batch: 680-165174
Prep Batch: 680-164645
Units: ug/L

Instrument ID: ICPD
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Antimony	20	U	5.2	20
Arsenic	20	U	10	20
Barium	10	U	2.0	10
Beryllium	4.0	U	0.10	4.0
Cadmium	5.0	U	2.0	5.0
Chromium	10	U	2.0	10
Cobalt	10	U	1.0	10
Copper	20	U	5.0	20
Lead	10	U	3.4	10
Nickel	40	U	4.0	40
Selenium	20	U	6.4	20
Silver	10	U	0.97	10
Thallium	25	U	8.7	25
Tin	50	U	5.4	50
Vanadium	10	U	3.0	10
Zinc	20	U	6.3	20

Client: Ashland Inc. Job Number: 680-56303-1

Lab Control Sample - Batch: 680-164645

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID: LCS 680-164645/11-A
Client Matrix: W0t A
Dilution: 1.0
Date Analyzed: 04/07/2010 1801
Date Prepared: 04/01/2010 1134

Analysis Batch: 680-165174
Prep Batch: 680-164645
Units: ug/L

Instrument ID: ICPD
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Antimony	500	524	105	75 - 125	
Arsenic	2000	2030	101	75 - 125	
Barium	2000	2140	107	75 - 125	
Beryllium	50.0	52.1	104	75 - 125	
Cadmium	50.0	53.5	107	75 - 125	
Chromium	200	209	104	75 - 125	
Cobalt	500	522	104	75 - 125	
Copper	250	256	102	75 - 125	
Lead	500	519	104	75 - 125	
Nickel	500	516	103	75 - 125	
Selenium	2000	2150	107	75 - 125	
Silver	50.0	51.1	102	75 - 125	
Thallium	2000	2150	108	75 - 125	
Tin	1000	1080	108	75 - 125	
Vanadium	500	504	101	75 - 125	
Zinc	500	523	105	75 - 125	

Client: Ashland Inc.

Job Number: 680-56303-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-164645

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	680-56303-3	Analysis Batch:	680-165174	Instrument ID:	ICPD
Client Matrix:	Water	Prep Batch:	680-164645	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	04/07/2010 1832			Final Weight/Volume:	50 mL
Date Prepared:	04/01/2010 1134				

MSD Lab Sample ID:	680-56303-3	Analysis Batch:	680-165174	Instrument ID:	ICPD
Client Matrix:	Water	Prep Batch:	680-164645	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	04/07/2010 1837			Final Weight/Volume:	50 mL
Date Prepared:	04/01/2010 1134				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Antimony	107	109	75 - 125	2	20		
Arsenic	104	105	75 - 125	1	20		
Barium	108	109	75 - 125	1	20		
Beryllium	106	107	75 - 125	2	20		
Cadmium	107	108	75 - 125	1	20		
Chromium	104	106	75 - 125	2	20		
Cobalt	104	106	75 - 125	2	20		
Copper	106	108	75 - 125	1	20		
Lead	105	106	75 - 125	1	20		
Nickel	103	104	75 - 125	2	20		
Selenium	109	111	75 - 125	2	20		
Silver	105	106	75 - 125	1	20		
Thallium	109	110	75 - 125	2	20		
Tin	109	111	75 - 125	1	20		
Vanadium	101	103	75 - 125	1	20		
Zinc	103	105	75 - 125	2	20		

Client: Ashland Inc.

Job Number: 680-56303-1

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 680-164645

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	680-56303-3	Units: ug/L	MSD Lab Sample ID: 680-56303-3
Client Matrix:	W0t A		Client Matrix: Water
Dilution:	1.0		Dilution: 1.0
Date Analyzed:	04/07/2010 1832		Date Analyzed: 04/07/2010 1837
Date Prepared:	04/01/2010 1134		Date Prepared: 04/01/2010 1134

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Antimony	20	U	500	500	535	547
Arsenic	20	U	2000	2000	2070	2100
Barium	97		2000	2000	2250	2280
Beryllium	0.24	J	50.0	50.0	53.0	53.9
Cadmium	5.0	U	50.0	50.0	53.3	53.8
Chromium	28		200	200	236	240
Cobalt	1.5	J	500	500	522	531
Copper	9.6	J	250	250	275	279
Lead	10	U	500	500	523	528
Nickel	11	J	500	500	523	533
Selenium	20	U	2000	2000	2180	2210
Silver	10	U	50.0	50.0	52.3	53.0
Thallium	25	U	2000	2000	2170	2210
Tin	50	U	1000	1000	1090	1110
Vanadium	21		500	500	527	535
Zinc	50		500	500	567	576

Client: Ashland Inc. Job Number: 680-56303-1

Method Blank - Batch: 680-164726

Method: 7470A
Preparation: 7470A

Lab Sample ID: MB 680-164726/11-A
Client Matrix: W0t A
Dilution: 1.0
Date Analyzed: 04/02/2010 1620
Date Prepared: 04/02/2010 0954

Analysis Batch: 680-164779
Prep Batch: 680-164726
Units: ug/L

Instrument ID: LEEMAN1
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Mercury	0.20	U	0.091	0.20

Lab Control Sample - Batch: 680-164726

Method: 7470A
Preparation: 7470A

Lab Sample ID: LCS 680-164726/12-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/02/2010 1623
Date Prepared: 04/02/2010 0954

Analysis Batch: 680-164779
Prep Batch: 680-164726
Units: ug/L

Instrument ID: LEEMAN1
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	2.50	2.82	113	80 - 120	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-164726

Method: 7470A
Preparation: 7470A

MS Lab Sample ID: 680-56303-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/02/2010 1628
Date Prepared: 04/02/2010 0954

Analysis Batch: 680-164779
Prep Batch: 680-164726

Instrument ID: LEEMAN1
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 680-56303-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/02/2010 1631
Date Prepared: 04/02/2010 0954

Analysis Batch: 680-164779
Prep Batch: 680-164726

Instrument ID: LEEMAN1
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury	117	115	80 - 120	2	20		

Client: Ashland Inc.

Job Number: 680-56303-1

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 680-164726

Method: 7470A
Preparation: 7470A

MS Lab Sample ID:	680-56303-1	Units: ug/L	MSD Lab Sample ID:	680-56303-1	
Client Matrix:	W0t A		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Date Analyzed:	04/02/2010 1628		Date Analyzed:	04/02/2010 1631	
Date Prepared:	04/02/2010 0954		Date Prepared:	04/02/2010 0954	

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Mercury	0.20	U	1.00	1.00	1.17	1.15

Client: Ashland Inc. Job Number: 680-56303-1

Laboratory Chronicle

Lab ID: 680-56303-1 **Client ID:** HP-111-50A

Sample Date/Time: 03/30/2010 09:30 Received Date/Time: 03/31/2010 13:33

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-56303-C-1		680-164798		04/02/2010 11:51	1	TAL SAV	RB
A:8260B	680-56303-C-1		680-164798		04/02/2010 11:51	1	TAL SAV	RB
P:3520C	680-56303-A-1-A		680-164810	680-164624	04/01/2010 13:09	1	TAL SAV	RBS
A:8081A_8082	680-56303-A-1-A		680-164810	680-164624	04/02/2010 20:59	1	TAL SAV	JK
P:3520C	680-56303-A-1-A		680-164809	680-164624	04/01/2010 13:09	1	TAL SAV	RBS
A:8081B/8082A	680-56303-A-1-A		680-164809	680-164624	04/02/2010 20:59	1	TAL SAV	JK
P:3005A	680-56303-B-1-A		680-165174	680-164645	04/01/2010 11:34	1	TAL SAV	RA
A:6010B	680-56303-B-1-A		680-165174	680-164645	04/07/2010 18:06	1	TAL SAV	BCB
P:7470A	680-56303-B-1-B		680-164779	680-164726	04/02/2010 09:54	1	TAL SAV	RA
A:7470A	680-56303-B-1-B		680-164779	680-164726	04/02/2010 16:26	1	TAL SAV	CE

Lab ID: 680-56303-1 MS **Client ID:** HP-111-50A

Sample Date/Time: 03/30/2010 09:30 Received Date/Time: 03/31/2010 13:33

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	680-56303-B-1-C MS		680-164779	680-164726	04/02/2010 09:54	1	TAL SAV	RA
A:7470A	680-56303-B-1-C MS		680-164779	680-164726	04/02/2010 16:28	1	TAL SAV	CE

Lab ID: 680-56303-1 MSD **Client ID:** HP-111-50A

Sample Date/Time: 03/30/2010 09:30 Received Date/Time: 03/31/2010 13:33

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	680-56303-B-1-D MSD		680-164779	680-164726	04/02/2010 09:54	1	TAL SAV	RA
A:7470A	680-56303-B-1-D MSD		680-164779	680-164726	04/02/2010 16:31	1	TAL SAV	CE

Lab ID: 680-56303-2 **Client ID:** HP-111-50B

Sample Date/Time: 03/30/2010 10:00 Received Date/Time: 03/31/2010 13:33

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-56303-C-2		680-164684		04/01/2010 19:56	10	TAL SAV	RB
A:8260B	680-56303-C-2		680-164684		04/01/2010 19:56	10	TAL SAV	RB
P:3520C	680-56303-A-2-A		680-164810	680-164624	04/01/2010 13:09	1	TAL SAV	RBS
A:8081A_8082	680-56303-A-2-A		680-164810	680-164624	04/02/2010 21:22	1	TAL SAV	JK
P:3520C	680-56303-A-2-A		680-164809	680-164624	04/01/2010 13:09	1	TAL SAV	RBS
A:8081B/8082A	680-56303-A-2-A		680-164809	680-164624	04/02/2010 21:22	1	TAL SAV	JK
P:3005A	680-56303-B-2-A		680-165174	680-164645	04/01/2010 11:34	1	TAL SAV	RA
A:6010B	680-56303-B-2-A		680-165174	680-164645	04/07/2010 18:11	1	TAL SAV	BCB
P:7470A	680-56303-B-2-B		680-164779	680-164726	04/02/2010 09:54	1	TAL SAV	RA
A:7470A	680-56303-B-2-B		680-164779	680-164726	04/02/2010 16:34	1	TAL SAV	CE

Client: Ashland Inc. Job Number: 680-56303-1

Laboratory Chronicle

Lab ID: 680-56303-3 **Client ID: HP-111-50C**

Sample Date/Time: 03/30/2010 10:30 Received Date/Time: 03/31/2010 13:33

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-56303-C-3		680-164798		04/02/2010 12:21	1	TAL SAV	RB
A:8260B	680-56303-C-3		680-164798		04/02/2010 12:21	1	TAL SAV	RB
P:3520C	680-56303-A-3-A		680-164810	680-164624	04/01/2010 13:09	1	TAL SAV	RBS
A:8081A_8082	680-56303-A-3-A		680-164810	680-164624	04/02/2010 21:46	1	TAL SAV	JK
P:3520C	680-56303-A-3-A		680-164809	680-164624	04/01/2010 13:09	1	TAL SAV	RBS
A:8081B/8082A	680-56303-A-3-A		680-164809	680-164624	04/02/2010 21:46	1	TAL SAV	JK
P:3005A	680-56303-B-3-A		680-165174	680-164645	04/01/2010 11:34	1	TAL SAV	RA
A:6010B	680-56303-B-3-A		680-165174	680-164645	04/07/2010 18:16	1	TAL SAV	BCB
P:7470A	680-56303-B-3-D		680-164779	680-164726	04/02/2010 09:54	1	TAL SAV	RA
A:7470A	680-56303-B-3-D		680-164779	680-164726	04/02/2010 16:37	1	TAL SAV	CE

Lab ID: 680-56303-3 MS **Client ID: HP-111-50C**

Sample Date/Time: 03/30/2010 10:30 Received Date/Time: 03/31/2010 13:33

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	680-56303-B-3-B MS		680-165174	680-164645	04/01/2010 11:34	1	TAL SAV	RA
A:6010B	680-56303-B-3-B MS		680-165174	680-164645	04/07/2010 18:32	1	TAL SAV	BCB

Lab ID: 680-56303-3 MSD **Client ID: HP-111-50C**

Sample Date/Time: 03/30/2010 10:30 Received Date/Time: 03/31/2010 13:33

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	680-56303-B-3-C MSD		680-165174	680-164645	04/01/2010 11:34	1	TAL SAV	RA
A:6010B	680-56303-B-3-C MSD		680-165174	680-164645	04/07/2010 18:37	1	TAL SAV	BCB

Lab ID: 680-56303-4 **Client ID: HP-111-51A**

Sample Date/Time: 03/29/2010 15:45 Received Date/Time: 03/31/2010 13:33

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-56303-C-4		680-164798		04/02/2010 12:50	1	TAL SAV	RB
A:8260B	680-56303-C-4		680-164798		04/02/2010 12:50	1	TAL SAV	RB
P:3520C	680-56303-A-4-A		680-164810	680-164624	04/01/2010 13:09	1	TAL SAV	RBS
A:8081A_8082	680-56303-A-4-A		680-164810	680-164624	04/02/2010 22:09	1	TAL SAV	JK
P:3520C	680-56303-A-4-A		680-164809	680-164624	04/01/2010 13:09	1	TAL SAV	RBS
A:8081B/8082A	680-56303-A-4-A		680-164809	680-164624	04/02/2010 22:09	1	TAL SAV	JK
P:3005A	680-56303-B-4-A		680-165174	680-164645	04/01/2010 11:34	1	TAL SAV	RA
A:6010B	680-56303-B-4-A		680-165174	680-164645	04/07/2010 18:52	1	TAL SAV	BCB
P:7470A	680-56303-B-4-B		680-164779	680-164726	04/02/2010 09:54	1	TAL SAV	RA
A:7470A	680-56303-B-4-B		680-164779	680-164726	04/02/2010 16:40	1	TAL SAV	CE

Client: Ashland Inc. Job Number: 680-56303-1

Laboratory Chronicle

Lab ID: 680-56303-5 **Client ID: HP-111-52A**

Sample Date/Time: 03/29/2010 14:15 Received Date/Time: 03/31/2010 13:33

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-56303-C-5		680-164798		04/02/2010 13:19	1	TAL SAV	RB
A:8260B	680-56303-C-5		680-164798		04/02/2010 13:19	1	TAL SAV	RB
P:3520C	680-56303-A-5-A		680-164810	680-164624	04/01/2010 13:09	1	TAL SAV	RBS
A:8081A_8082	680-56303-A-5-A		680-164810	680-164624	04/02/2010 22:32	1	TAL SAV	JK
P:3520C	680-56303-A-5-A		680-164809	680-164624	04/01/2010 13:09	1	TAL SAV	RBS
A:8081B/8082A	680-56303-A-5-A		680-164809	680-164624	04/02/2010 22:32	1	TAL SAV	JK
P:3005A	680-56303-B-5-A		680-165174	680-164645	04/01/2010 11:34	1	TAL SAV	RA
A:6010B	680-56303-B-5-A		680-165174	680-164645	04/07/2010 18:58	1	TAL SAV	BCB
P:7470A	680-56303-B-5-B		680-164779	680-164726	04/02/2010 09:54	1	TAL SAV	RA
A:7470A	680-56303-B-5-B		680-164779	680-164726	04/02/2010 16:43	1	TAL SAV	CE

Lab ID: 680-56303-6 **Client ID: HP-111-52B**

Sample Date/Time: 03/29/2010 14:30 Received Date/Time: 03/31/2010 13:33

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-56303-C-6		680-164798		04/02/2010 13:49	1	TAL SAV	RB
A:8260B	680-56303-C-6		680-164798		04/02/2010 13:49	1	TAL SAV	RB
P:3520C	680-56303-A-6-A		680-164810	680-164624	04/01/2010 13:09	1	TAL SAV	RBS
A:8081A_8082	680-56303-A-6-A		680-164810	680-164624	04/02/2010 22:55	1	TAL SAV	JK
P:3520C	680-56303-A-6-A		680-164809	680-164624	04/01/2010 13:09	1	TAL SAV	RBS
A:8081B/8082A	680-56303-A-6-A		680-164809	680-164624	04/02/2010 22:55	1	TAL SAV	JK
P:3005A	680-56303-B-6-A		680-165174	680-164645	04/01/2010 11:34	1	TAL SAV	RA
A:6010B	680-56303-B-6-A		680-165174	680-164645	04/07/2010 19:03	1	TAL SAV	BCB
P:7470A	680-56303-B-6-B		680-164779	680-164726	04/02/2010 09:54	1	TAL SAV	RA
A:7470A	680-56303-B-6-B		680-164779	680-164726	04/02/2010 16:46	1	TAL SAV	CE

Lab ID: 680-56303-7 **Client ID: HP-111-53A**

Sample Date/Time: 03/29/2010 10:15 Received Date/Time: 03/31/2010 13:33

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-56303-C-7		680-164798		04/02/2010 14:18	1	TAL SAV	RB
A:8260B	680-56303-C-7		680-164798		04/02/2010 14:18	1	TAL SAV	RB
P:3520C	680-56303-A-7-A		680-164810	680-164624	04/01/2010 13:09	1	TAL SAV	RBS
A:8081A_8082	680-56303-A-7-A		680-164810	680-164624	04/02/2010 23:20	1	TAL SAV	JK
P:3520C	680-56303-A-7-A		680-164809	680-164624	04/01/2010 13:09	1	TAL SAV	RBS
A:8081B/8082A	680-56303-A-7-A		680-164809	680-164624	04/02/2010 23:20	1	TAL SAV	JK
P:3005A	680-56303-B-7-A		680-165174	680-164645	04/01/2010 11:34	1	TAL SAV	RA
A:6010B	680-56303-B-7-A		680-165174	680-164645	04/07/2010 19:08	1	TAL SAV	BCB
P:7470A	680-56303-B-7-B		680-164779	680-164726	04/02/2010 09:54	1	TAL SAV	RA
A:7470A	680-56303-B-7-B		680-164779	680-164726	04/02/2010 16:55	1	TAL SAV	CE

Client: Ashland Inc. Job Number: 680-56303-1

Laboratory Chronicle

Lab ID: 680-56303-8 **Client ID:** HP-111-53B

Sample Date/Time: 03/29/2010 10:50 Received Date/Time: 03/31/2010 13:33

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-56303-C-8		680-164798		04/02/2010 14:48	1	TAL SAV	RB
A:8260B	680-56303-C-8		680-164798		04/02/2010 14:48	1	TAL SAV	RB
P:3520C	680-56303-A-8-A		680-164810	680-164624	04/01/2010 13:09	1	TAL SAV	RBS
A:8081A_8082	680-56303-A-8-A		680-164810	680-164624	04/02/2010 23:44	1	TAL SAV	JK
P:3520C	680-56303-A-8-A		680-164809	680-164624	04/01/2010 13:09	1	TAL SAV	RBS
A:8081B/8082A	680-56303-A-8-A		680-164809	680-164624	04/02/2010 23:44	1	TAL SAV	JK
P:3005A	680-56303-B-8-A		680-165174	680-164645	04/01/2010 11:34	1	TAL SAV	RA
A:6010B	680-56303-B-8-A		680-165174	680-164645	04/07/2010 19:13	1	TAL SAV	BCB
P:7470A	680-56303-B-8-B		680-164779	680-164726	04/02/2010 09:54	1	TAL SAV	RA
A:7470A	680-56303-B-8-B		680-164779	680-164726	04/02/2010 16:57	1	TAL SAV	CE

Lab ID: 680-56303-9 **Client ID:** HP-111-55A

Sample Date/Time: 03/30/2010 15:30 Received Date/Time: 03/31/2010 13:33

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-56303-A-9		680-164798		04/02/2010 15:17	1	TAL SAV	RB
A:8260B	680-56303-A-9		680-164798		04/02/2010 15:17	1	TAL SAV	RB

Lab ID: 680-56303-10 **Client ID:** HP-111-55B

Sample Date/Time: 03/30/2010 16:00 Received Date/Time: 03/31/2010 13:33

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-56303-A-10		680-164798		04/02/2010 15:46	1	TAL SAV	RB
A:8260B	680-56303-A-10		680-164798		04/02/2010 15:46	1	TAL SAV	RB

Lab ID: 680-56303-11 **Client ID:** HP-111-56A

Sample Date/Time: 03/30/2010 14:20 Received Date/Time: 03/31/2010 13:33

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-56303-A-11		680-164798		04/02/2010 16:16	1	TAL SAV	RB
A:8260B	680-56303-A-11		680-164798		04/02/2010 16:16	1	TAL SAV	RB

Lab ID: 680-56303-12 **Client ID:** Trip Blank Lot 031010

Sample Date/Time: 03/30/2010 00:00 Received Date/Time: 03/31/2010 13:33

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-56303-A-12		680-164684		04/01/2010 14:30	1	TAL SAV	RB
A:8260B	680-56303-A-12		680-164684		04/01/2010 14:30	1	TAL SAV	RB

Client: Ashland Inc. Job Number: 680-56303-1

Laboratory Chronicle

Lab ID: 680-56303-13 **Client ID:** HP-111-FB-1

Sample Date/Time: 03/30/2010 17:55 Received Date/Time: 03/31/2010 13:33

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-56303-A-13		680-164684		04/01/2010 15:00	1	TAL SAV	RB
A:8260B	680-56303-A-13		680-164684		04/01/2010 15:00	1	TAL SAV	RB

Lab ID: MB **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	MB 680-164684/10		680-164684		04/01/2010 11:34	1	TAL SAV	RB
A:8260B	MB 680-164684/10		680-164684		04/01/2010 11:34	1	TAL SAV	RB
P:5030B	MB 680-164798/9		680-164798		04/02/2010 11:22	1	TAL SAV	RB
A:8260B	MB 680-164798/9		680-164798		04/02/2010 11:22	1	TAL SAV	RB
P:3520C	MB 680-164624/18-A		680-164810	680-164624	04/01/2010 13:09	1	TAL SAV	RBS
A:8081A_8082	MB 680-164624/18-A		680-164810	680-164624	04/02/2010 15:58	1	TAL SAV	JK
P:3520C	MB 680-164624/18-A		680-164809	680-164624	04/01/2010 13:09	1	TAL SAV	RBS
A:8081B/8082A	MB 680-164624/18-A		680-164809	680-164624	04/02/2010 15:58	1	TAL SAV	JK
P:3005A	MB 680-164645/10-A		680-165174	680-164645	04/01/2010 11:34	1	TAL SAV	RA
A:6010B	MB 680-164645/10-A		680-165174	680-164645	04/08/2010 10:09	1	TAL SAV	BCB
P:7470A	MB 680-164726/11-A		680-164779	680-164726	04/02/2010 09:54	1	TAL SAV	RA
A:7470A	MB 680-164726/11-A		680-164779	680-164726	04/02/2010 16:20	1	TAL SAV	CE

Lab ID: LCS **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCS 680-164684/7		680-164684		04/01/2010 09:36	1	TAL SAV	RB
A:8260B	LCS 680-164684/7		680-164684		04/01/2010 09:36	1	TAL SAV	RB
P:5030B	LCS 680-164798/6		680-164798		04/02/2010 09:25	1	TAL SAV	RB
A:8260B	LCS 680-164798/6		680-164798		04/02/2010 09:25	1	TAL SAV	RB
P:3520C	LCS 680-164624/25-A		680-164810	680-164624	04/01/2010 13:09	1	TAL SAV	RBS
A:8081A_8082	LCS 680-164624/25-A		680-164810	680-164624	04/02/2010 17:08	1	TAL SAV	JK
P:3520C	LCS 680-164624/25-A		680-164809	680-164624	04/01/2010 13:09	1	TAL SAV	RBS
A:8081B/8082A	LCS 680-164624/25-A		680-164809	680-164624	04/02/2010 17:08	1	TAL SAV	JK
P:3005A	LCS 680-164645/11-A		680-165174	680-164645	04/01/2010 11:34	1	TAL SAV	RA
A:6010B	LCS 680-164645/11-A		680-165174	680-164645	04/07/2010 18:01	1	TAL SAV	BCB
P:7470A	LCS 680-164726/12-A		680-164779	680-164726	04/02/2010 09:54	1	TAL SAV	RA
A:7470A	LCS 680-164726/12-A		680-164779	680-164726	04/02/2010 16:23	1	TAL SAV	CE

Client: Ashland Inc. Job Number: 680-56303-1

Laboratory Chronicle

Lab ID: LCSD **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCSD 680-164684/8		680-164684		04/01/2010 10:05	1	TAL SAV	RB
A:8260B	LCSD 680-164684/8		680-164684		04/01/2010 10:05	1	TAL SAV	RB
P:5030B	LCSD 680-164798/7		680-164798		04/02/2010 09:54	1	TAL SAV	RB
A:8260B	LCSD 680-164798/7		680-164798		04/02/2010 09:54	1	TAL SAV	RB
P:3520C	LCSD 680-164624/26-A		680-164810	680-164624	04/01/2010 13:09	1	TAL SAV	RBS
A:8081A_8082	LCSD 680-164624/26-A		680-164810	680-164624	04/02/2010 17:31	1	TAL SAV	JK
P:3520C	LCSD 680-164624/26-A		680-164809	680-164624	04/01/2010 13:09	1	TAL SAV	RBS
A:8081B/8082A	LCSD 680-164624/26-A		680-164809	680-164624	04/02/2010 17:31	1	TAL SAV	JK

Lab References:

TAL SAV = TestAmerica Savannah

Serial Number 030728

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

4501306047

☑ TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

○ Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	Asland Brunswick TF GW
PROJECT NO.	(Delta) 3098 49509
PROJECT LOCATION (STATE)	GA
TAL (LAB) PROJECT MANAGER	Lidya Gralizia
P.O. NUMBER	~~3098 49509~~ (Delta) 4501306047
CONTRACT NO.	
CLIENT (SITE) PM	Ryan Cate / Tim Hassett
CLIENT PHONE	803-404-5907 (Delta) 302 995-34.. (TH)
CLIENT FAX	803-404-5920
CLIENT NAME	Ashland-Hercules / ~~Delta Consultants~~
CLIENT E-MAIL	rcate@deltaenv.com (Delta); TDHassett@ashland.com
CLIENT ADDRESS	2501 Cook St, Brunswick, GA and 800 Dutch Square Blvd, Ste B-111, Columbia, SC 29210
COMPANY CONTRACTING THIS WORK (if applicable)	Ashland

PAGE 1 OF 2

STANDARD REPORT DELIVERY ☑ DATE DUE ____

EXPEDITED REPORT DELIVERY (SURCHARGE) ○ DATE DUE ____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

REQUIRED ANALYSIS: 8260 VOC (LL) / 6010 metals / 8081 Toxaphene

PRESERVATIVE: NA / HNO_3 / NA

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	8260 VOC (LL)	6010 metals	8081 Toxaphene	REMARKS
3/30/10	930	HP-111-50A	G	✓				3	1	1	
↓	1000	HP-111-50B	↓	↓				3	1	1	
↓	1030	HP-111-50C	↓	↓				3	1	1	
3/29/10	1545	HP-111-51A	↓	↓				3	1	1	
↓	1415	HP-111-52A	↓	↓				3	1	1	
↓	1430	HP-111-52B	↓	↓				3	1	1	
↓	1015	HP-111-53A	↓	↓				3	1	1	
↓	1050	HP-111-53B	↓	↓				3	1	1	
3/30/10	1530	HP-111-55A	↓	↓				3			
3/30/10	1600	HP-111-55B	↓	↓				3			
3/30/10	1420	HP-111-56A	↓	↓				3			
		Trip Blank Lot#031010						2			

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	3/31/10	1000	[signature]	3/31/10	1517			
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**
[signature]	3/31/10	1045						

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
[signature]	3/31/10	1323	YES ○ NO ○		680-56303	2.6/1.4

TAL8240-680 (1207)

Serial Number 030503

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4501306047

✓ TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

◯ Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE: Ashland Brunswick TF GW	PROJECT NO.: 30984509 (Delta)	PROJECT LOCATION (STATE): GA	PAGE 2 OF 2
TAL (LAB) PROJECT MANAGER: Lidya	P.O. NUMBER: ~~4501360047~~	CONTRACT NO.	STANDARD REPORT DELIVERY ✓
CLIENT (SITE) PM: Tim Hassett ~~H. Cole~~	CLIENT PHONE: (302) 995-3456	CLIENT FAX	DATE DUE
CLIENT NAME: ~~Delta~~ Ashland - Hercules	CLIENT E-MAIL		EXPEDITED REPORT DELIVERY (SURCHARGE) ◯
CLIENT ADDRESS: Ashland			DATE DUE
COMPANY CONTRACTING THIS WORK (if applicable)			NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: 8260 VOC (Lip)	REMARKS
3/30/10	1755	HP-111-FB-1	G	✓				3	

NA PRESERVATIVE

NUMBER OF CONTAINERS SUBMITTED

Page 103 of 104

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	3/30/10	1000		3/31/10	1103			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
	3/31/10	1045						

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
	3/31/10	1333	YES ◯ NO ◯		680-56303	2.6 | 14

TAL8240-680 (1207)

Login Sample Receipt Check List

Client: Ashland Inc.

Job Number: 680-56303-1

Login Number: 56303

List Source: TestAmerica Savannah

Creator: Conner, Keaton

List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.6 and 1.4 C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	Client provided only 1 liter per sample for Toxaphene analysis
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	N/A	
Sample Preservation Verified	True	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 680-58086-1

Job Description: Ashland Brunswick RFI GW MAY 2010

For:
Ashland Inc.
500 Hercules Road
Wilmington, DE 19894

Attention: Timothy Hassett

Approved for release.
Lidya Gulizia
Project Manager I
6/23/2010 5:47 PM

Lidya Gulizia
Project Manager I
lidya.gulizia@testamericainc.com
06/23/2010

cc: Kelley Baker
Mr. Leroy Bishop
Mr. Dennis Brunner
Ryan Cate
Mr. Tony Mancini
Ms. Charlene Rivard

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

Savannah Certifications and ID #s: A2LA: 0399.01; AL: 41450; ARDEQ: 88-0692; ARDOH; AZ: AZ0741; CA: 03217CA; CO; CT: PH0161; DE; FL: E87052; GA: 803; Guam; HI; IL: 200022; IN; IA: 353; KS: E-10322; KY EPPC: 90084; KY UST; LA DEQ: 30690; LA DHH: LA080008; ME: 2008022; MD: 250; MA: M-GA006; MI: 9925; MS; NFESC: 249; NV: GA00006; NJ: GA769; NM; NY: 10842; NC DWQ: 269; NC DHHS: 13701; PA: 68-00474; PR: GA00006; RI: LAO00244; SC: 98001001; TN: TN0296; TX: T104704185; USEPA: GA00006; VT: VT-87052; VA: 00302; WA; WV DEP: 094; WV DHHR: 9950 C; WI DNR: 999819810; WY/EPAR8: 8TMS-Q

TestAmerica Laboratories, Inc.
TestAmerica Savannah 5102 LaRoche Avenue, Savannah, GA 31404
Tel (912) 354-7858 Fax (912) 352-0165 www.testamericainc.com

ACCREDITED IN ACCORDANCE WITH nelac

Receipt
All samples were received in good condition within temperature requirements.

GC/MS VOA
Method(s) 8260B: A full list spike was utilized for this method. Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for four analytes to recover outside criteria for this method when a full list spike is utilized. The LCS/LCSD associated with batch 170241 had one analyte outside control limits; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method(s) 8260B: A full list spike was utilized for this method. Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for four analytes to recover outside criteria for this method when a full list spike is utilized. The LCS/LCSD with batch 170211 had one analytes outside control limits; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method(s) 8260B: A full list spike was utilized for this method. Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for four analytes to recover outside criteria for this method when a full list spike is utilized. The LCS/LCSD associated with batch 170256 had two analytes outside control limits; therefore, re-analysis was not performed. These results have been reported and qualified.

Method(s) 8260B: Surrogate recovery for the following sample(s) was outside control limits: MW-17D (52610) (680-58086-8), MW-19D (52610) (680-58086-10). Reanalysis of the samples confirmed the original surrogate recoveries.

No other analytical or quality issues were noted.

GC Semi VOA
No analytical or quality issues were noted.

Metals
No analytical or quality issues were noted.

Comments
No additional comments.

METHOD SUMMARY

Client: Ashland Inc. Job Number: 680-58086-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL SAV	SW846 8260B	
Purge and Trap	TAL SAV		SW846 5030B
Organochlorine Pesticides & PCBs (GC)	TAL SAV	SW846 8081A_8082	
Liquid-Liquid Extraction (Continuous)	TAL SAV		SW846 3520C
Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography	TAL SAV	SW846 8081B/8082A	
Liquid-Liquid Extraction (Continuous)	TAL SAV		SW846 3520C
Metals (ICP)	TAL SAV	SW846 6010B	
Preparation, Total Recoverable or Dissolved Metals	TAL SAV		SW846 3005A
Mercury (CVAA)	TAL SAV	SW846 7470A	
Preparation, Mercury	TAL SAV		SW846 7470A

Lab References:

TAL SAV = TestAmerica Savannah

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Ashland Inc. Job Number: 680-58086-1

Method	Analyst	Analyst ID
SW846 8260B	Cowart, Judson	WJC
SW846 8260B	Lanier, Carolyn	CL
SW846 8260B	Waldorf, Jonathan	JW
SW846 8081A_8082	Kellar, Joshua	JK
SW846 8081B/8082A	Kellar, Joshua	JK
SW846 6010B	Robertson, Bryn	BR
SW846 7470A	Eaton, Cliff	CE

SAMPLE SUMMARY

Client: Ashland Inc. Job Number: 680-58086-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-58086-1	MW-37D (52510)	Water	05/25/2010 1750	05/28/2010 0918
680-58086-2	MW-37S (52510)	Water	05/25/2010 1650	05/28/2010 0918
680-58086-3	MW-37I (52510)	Water	05/25/2010 1840	05/28/2010 0918
680-58086-4	MW-40D (52610)	Water	05/26/2010 1710	05/28/2010 0918
680-58086-5	MW-40S (52610)	Water	05/26/2010 1800	05/28/2010 0918
680-58086-6	MW-40I (52610)	Water	05/26/2010 1620	05/28/2010 0918
680-58086-7	MW-17S (52610)	Water	05/26/2010 1520	05/28/2010 0918
680-58086-8	MW-17D (52610)	Water	05/26/2010 1520	05/28/2010 0918
680-58086-9	MW-27D (52610)	Water	05/26/2010 1405	05/28/2010 0918
680-58086-10	MW-19D (52610)	Water	05/26/2010 1225	05/28/2010 0918
680-58086-11	MW-19S (52610)	Water	05/26/2010 1220	05/28/2010 0918
680-58086-12	MW-19I (52610)	Water	05/26/2010 1305	05/28/2010 0918
680-58086-13	MW-18 (52610)	Water	05/26/2010 1025	05/28/2010 0918
680-58086-14	MW-16S (52710)	Water	05/27/2010 1055	05/28/2010 0918
680-58086-15	MW-16D (52710)	Water	05/27/2010 1100	05/28/2010 0918
680-58086-16	MW-32D (52710)	Water	05/27/2010 1330	05/28/2010 0918
680-58086-17	MW-41I (52710)	Water	05/27/2010 1405	05/28/2010 0918
680-58086-18	MW-30S (52710)	Water	05/27/2010 1235	05/28/2010 0918
680-58086-19	MW-30D (52710)	Water	05/27/2010 1225	05/28/2010 0918
680-58086-20	MW-33 (52710)	Water	05/27/2010 1505	05/28/2010 0918
680-58086-21	MW-53S (52710)	Water	05/27/2010 1540	05/28/2010 0918
680-58086-22TB	Trip Blank	Water	05/27/2010 0000	05/28/2010 0918

SAMPLE RESULTS

Client: Ashland Inc. Job Number: 680-58086-1

Client Sample ID: **MW-37D (52510)**

Lab Sample ID: 680-58086-1 Date Sampled: 05/25/2010 1750
Client Matrix: Water Date Received: 05/28/2010 0918

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-170241		Instrument ID:	MSO2
Preparation:	5030B			Lab File ID:	o1208.d
Dilution:	1.0			Initial Weight/Volume:	5 mL
Date Analyzed:	06/01/2010 1444			Final Weight/Volume:	5 mL
Date Prepared:	06/01/2010 1444				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U *	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-58086-1

Client Sample ID: **MW-37D (52510)**

Lab Sample ID: 680-58086-1 Date Sampled: 05/25/2010 1750
Client Matrix: Water Date Received: 05/28/2010 0918

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-170241		Instrument ID:	MSO2
Preparation:	5030B			Lab File ID:	o1208.d
Dilution:	1.0			Initial Weight/Volume:	5 mL
Date Analyzed:	06/01/2010 1444			Final Weight/Volume:	5 mL
Date Prepared:	06/01/2010 1444				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	99		75 - 120
Dibromofluoromethane	110		75 - 121
Toluene-d8 (Surr)	102		75 - 120

Client: Ashland Inc. Job Number: 680-58086-1

Client Sample ID: **MW-37S (52510)**

Lab Sample ID: 680-58086-2 Date Sampled: 05/25/2010 1650
Client Matrix: Water Date Received: 05/28/2010 0918

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-170241	Instrument ID:	MSO2
Preparation:	5030B		Lab File ID:	o1210.d
Dilution:	1.0		Initial Weight/Volume:	5 mL
Date Analyzed:	06/01/2010 1513		Final Weight/Volume:	5 mL
Date Prepared:	06/01/2010 1513			

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	7.9	J	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	0.86	J	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U *	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	0.19	J	0.15	1.0
Toluene	1.0	U	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-58086-1

Client Sample ID: **MW-37S (52510)**

Lab Sample ID: 680-58086-2 Date Sampled: 05/25/2010 1650
Client Matrix: Water Date Received: 05/28/2010 0918

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-170241	Instrument ID:	MSO2
Preparation:	5030B		Lab File ID:	o1210.d
Dilution:	1.0		Initial Weight/Volume:	5 mL
Date Analyzed:	06/01/2010 1513		Final Weight/Volume:	5 mL
Date Prepared:	06/01/2010 1513			

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	98		75 - 120
Dibromofluoromethane	106		75 - 121
Toluene-d8 (Surr)	100		75 - 120

Client: Ashland Inc. Job Number: 680-58086-1

Client Sample ID: **MW-37I (52510)**

Lab Sample ID: 680-58086-3 Date Sampled: 05/25/2010 1840
Client Matrix: Water Date Received: 05/28/2010 0918

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-170241 Instrument ID: MSO2
Preparation: 5030B Lab File ID: o1216.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/01/2010 1639 Final Weight/Volume: 5 mL
Date Prepared: 06/01/2010 1639

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U *	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-58086-1

Client Sample ID: **MW-37I (52510)**

Lab Sample ID: 680-58086-3 Date Sampled: 05/25/2010 1840
Client Matrix: Water Date Received: 05/28/2010 0918

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-170241	Instrument ID:	MSO2
Preparation:	5030B		Lab File ID:	o1216.d
Dilution:	1.0		Initial Weight/Volume:	5 mL
Date Analyzed:	06/01/2010 1639		Final Weight/Volume:	5 mL
Date Prepared:	06/01/2010 1639			

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	98		75 - 120
Dibromofluoromethane	108		75 - 121
Toluene-d8 (Surr)	99		75 - 120

Client: Ashland Inc. Job Number: 680-58086-1

Client Sample ID: **MW-40D (52610)**

Lab Sample ID: 680-58086-4 Date Sampled: 05/26/2010 1710
Client Matrix: Water Date Received: 05/28/2010 0918

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-170256		Instrument ID:	MSP
Preparation:	5030B			Lab File ID:	p0583.d
Dilution:	1.0			Initial Weight/Volume:	5 mL
Date Analyzed:	06/01/2010 1730			Final Weight/Volume:	5 mL
Date Prepared:	06/01/2010 1730				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U *	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U *	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-58086-1

Client Sample ID: **MW-40D (52610)**

Lab Sample ID: 680-58086-4 Date Sampled: 05/26/2010 1710
Client Matrix: Water Date Received: 05/28/2010 0918

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-170256	Instrument ID:	MSP
Preparation:	5030B		Lab File ID:	p0583.d
Dilution:	1.0		Initial Weight/Volume:	5 mL
Date Analyzed:	06/01/2010 1730		Final Weight/Volume:	5 mL
Date Prepared:	06/01/2010 1730			

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	91		75 - 120
Dibromofluoromethane	100		75 - 121
Toluene-d8 (Surr)	110		75 - 120

Client: Ashland Inc. Job Number: 680-58086-1

Client Sample ID: **MW-40S (52610)**

Lab Sample ID: 680-58086-5 Date Sampled: 05/26/2010 1800
Client Matrix: Water Date Received: 05/28/2010 0918

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-170256 Instrument ID: MSP
Preparation: 5030B Lab File ID: p0585.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/01/2010 1800 Final Weight/Volume: 5 mL
Date Prepared: 06/01/2010 1800

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	17	J	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U *	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U *	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-58086-1

Client Sample ID: **MW-40S (52610)**

Lab Sample ID: 680-58086-5 Date Sampled: 05/26/2010 1800
Client Matrix: Water Date Received: 05/28/2010 0918

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-170256	Instrument ID:	MSP
Preparation:	5030B		Lab File ID:	p0585.d
Dilution:	1.0		Initial Weight/Volume:	5 mL
Date Analyzed:	06/01/2010 1800		Final Weight/Volume:	5 mL
Date Prepared:	06/01/2010 1800			

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	92		75 - 120
Dibromofluoromethane	99		75 - 121
Toluene-d8 (Surr)	112		75 - 120

Client: Ashland Inc. Job Number: 680-58086-1

Client Sample ID: **MW-40I (52610)**

Lab Sample ID: 680-58086-6 Date Sampled: 05/26/2010 1620
Client Matrix: Water Date Received: 05/28/2010 0918

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-170256	Instrument ID: MSP
Preparation:	5030B		Lab File ID: p0587.d
Dilution:	1.0		Initial Weight/Volume: 5 mL
Date Analyzed:	06/01/2010 1830		Final Weight/Volume: 5 mL
Date Prepared:	06/01/2010 1830		

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	0.41	J	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	0.87	J	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U *	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U *	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-58086-1

Client Sample ID: **MW-40I (52610)**

Lab Sample ID: 680-58086-6 Date Sampled: 05/26/2010 1620
Client Matrix: Water Date Received: 05/28/2010 0918

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-170256		Instrument ID:	MSP
Preparation:	5030B			Lab File ID:	p0587.d
Dilution:	1.0			Initial Weight/Volume:	5 mL
Date Analyzed:	06/01/2010 1830			Final Weight/Volume:	5 mL
Date Prepared:	06/01/2010 1830				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	89		75 - 120
Dibromofluoromethane	99		75 - 121
Toluene-d8 (Surr)	112		75 - 120

Client: Ashland Inc. Job Number: 680-58086-1

Client Sample ID: **MW-17S (52610)**

Lab Sample ID: 680-58086-7 Date Sampled: 05/26/2010 1520
Client Matrix: Water Date Received: 05/28/2010 0918

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-170256 Instrument ID: MSP
Preparation: 5030B Lab File ID: p0589.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/01/2010 1859 Final Weight/Volume: 5 mL
Date Prepared: 06/01/2010 1859

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	34		5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U *	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U *	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-58086-1

Client Sample ID: **MW-17S (52610)**

Lab Sample ID: 680-58086-7 Date Sampled: 05/26/2010 1520
Client Matrix: Water Date Received: 05/28/2010 0918

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-170256	Instrument ID:	MSP
Preparation:	5030B		Lab File ID:	p0589.d
Dilution:	1.0		Initial Weight/Volume:	5 mL
Date Analyzed:	06/01/2010 1859		Final Weight/Volume:	5 mL
Date Prepared:	06/01/2010 1859			

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	93		75 - 120
Dibromofluoromethane	99		75 - 121
Toluene-d8 (Surr)	108		75 - 120

Client: Ashland Inc. Job Number: 680-58086-1

Client Sample ID: **MW-17D (52610)**

Lab Sample ID: 680-58086-8 Date Sampled: 05/26/2010 1520
Client Matrix: Water Date Received: 05/28/2010 0918

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-170360	Instrument ID: MSO2
Preparation:	5030B		Lab File ID: o1262.d
Dilution:	1.0		Initial Weight/Volume: 5 mL
Date Analyzed:	06/02/2010 1318		Final Weight/Volume: 5 mL
Date Prepared:	06/02/2010 1318		

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	91		5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	14		1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U *	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	1.8	J	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.2		0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-58086-1

Client Sample ID: **MW-17D (52610)**

Lab Sample ID: 680-58086-8 Date Sampled: 05/26/2010 1520
Client Matrix: Water Date Received: 05/28/2010 0918

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-170360	Instrument ID:	MSO2
Preparation:	5030B		Lab File ID:	o1262.d
Dilution:	1.0		Initial Weight/Volume:	5 mL
Date Analyzed:	06/02/2010 1318		Final Weight/Volume:	5 mL
Date Prepared:	06/02/2010 1318			

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	98		75 - 120
Dibromofluoromethane	9	X	75 - 121
Toluene-d8 (Surr)	102		75 - 120

Client: Ashland Inc. Job Number: 680-58086-1

Client Sample ID: **MW-27D (52610)**

Lab Sample ID: 680-58086-9 Date Sampled: 05/26/2010 1405
Client Matrix: Water Date Received: 05/28/2010 0918

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-170256		Instrument ID:	MSP
Preparation:	5030B			Lab File ID:	p0593.d
Dilution:	1.0			Initial Weight/Volume:	5 mL
Date Analyzed:	06/01/2010 1958			Final Weight/Volume:	5 mL
Date Prepared:	06/01/2010 1958				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	0.34	J	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U *	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U *	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-58086-1

Client Sample ID: **MW-27D (52610)**

Lab Sample ID: 680-58086-9 Date Sampled: 05/26/2010 1405
Client Matrix: Water Date Received: 05/28/2010 0918

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-170256 Instrument ID: MSP
Preparation: 5030B Lab File ID: p0593.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/01/2010 1958 Final Weight/Volume: 5 mL
Date Prepared: 06/01/2010 1958

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	93		75 - 120
Dibromofluoromethane	103		75 - 121
Toluene-d8 (Surr)	109		75 - 120

Client: Ashland Inc. Job Number: 680-58086-1

Client Sample ID: **MW-19D (52610)**

Lab Sample ID: 680-58086-10 Date Sampled: 05/26/2010 1225
Client Matrix: Water Date Received: 05/28/2010 0918

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-170360		Instrument ID:	MSO2
Preparation:	5030B			Lab File ID:	o1260.d
Dilution:	5.0			Initial Weight/Volume:	5 mL
Date Analyzed:	06/02/2010 1249			Final Weight/Volume:	5 mL
Date Prepared:	06/02/2010 1249				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	1100		25	120
Acetonitrile	200	U	50	200
Acrolein	100	U	37	100
Acrylonitrile	100	U	36	100
Benzene	5.0	U	1.2	5.0
Bromoform	5.0	U	2.5	5.0
Bromomethane	5.0	U	4.0	5.0
2-Butanone (MEK)	50	U	5.0	50
Carbon disulfide	10	U	3.0	10
Carbon tetrachloride	5.0	U	2.5	5.0
Chlorobenzene	5.0	U	1.2	5.0
2-Chloro-1,3-butadiene	5.0	U	1.5	5.0
Chlorodibromomethane	5.0	U	0.50	5.0
Chloroethane	5.0	U	5.0	5.0
Chloroform	5.0	U	0.70	5.0
Chloromethane	5.0	U	1.6	5.0
3-Chloro-1-propene	5.0	U	1.0	5.0
cis-1,3-Dichloropropene	5.0	U	0.55	5.0
1,2-Dibromo-3-Chloropropane	5.0	U	2.2	5.0
Dibromomethane	5.0	U	1.0	5.0
Dichlorobromomethane	5.0	U	1.2	5.0
Dichlorodifluoromethane	5.0	U	1.2	5.0
1,1-Dichloroethane	5.0	U	1.2	5.0
1,2-Dichloroethane	5.0	U	0.50	5.0
1,1-Dichloroethene	5.0	U	0.55	5.0
1,2-Dichloropropane	5.0	U	0.65	5.0
Ethylbenzene	5.0	U	0.55	5.0
Ethylene Dibromide	5.0	U	1.2	5.0
Ethyl methacrylate	5.0	U	1.2	5.0
2-Hexanone	50	U	5.0	50
Iodomethane	25	U	5.0	25
Isobutyl alcohol	200	U	55	200
Methacrylonitrile	100	U	16	100
Methylene Chloride	25	U *	5.0	25
Methyl methacrylate	5.0	U	2.4	5.0
4-Methyl-2-pentanone (MIBK)	50	U	5.0	50
Pentachloroethane	25	U	6.0	25
Propionitrile	100	U	23	100
Styrene	5.0	U	0.55	5.0
1,1,1,2-Tetrachloroethane	5.0	U	1.6	5.0
1,1,2,2-Tetrachloroethane	5.0	U	0.90	5.0
Tetrachloroethene	5.0	U	0.75	5.0
Toluene	5.0	U	1.6	5.0
trans-1,4-Dichloro-2-butene	10	U	2.5	10
trans-1,2-Dichloroethene	5.0	U	1.0	5.0
trans-1,3-Dichloropropene	5.0	U	1.0	5.0

Client: Ashland Inc. Job Number: 680-58086-1

Client Sample ID: **MW-19D (52610)**

Lab Sample ID: 680-58086-10 Date Sampled: 05/26/2010 1225
Client Matrix: Water Date Received: 05/28/2010 0918

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-170360	Instrument ID:	MSO2
Preparation:	5030B		Lab File ID:	o1260.d
Dilution:	5.0		Initial Weight/Volume:	5 mL
Date Analyzed:	06/02/2010 1249		Final Weight/Volume:	5 mL
Date Prepared:	06/02/2010 1249			

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	5.0	U	2.5	5.0
1,1,2-Trichloroethane	5.0	U	0.65	5.0
Trichloroethene	5.0	U	0.65	5.0
Trichlorofluoromethane	5.0	U	1.2	5.0
1,2,3-Trichloropropane	5.0	U	2.0	5.0
Vinyl acetate	10	U	1.4	10
Vinyl chloride	5.0	U	0.90	5.0
Xylenes, Total	10	U	1.0	10

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	102		75 - 120
Dibromofluoromethane	68	X	75 - 121
Toluene-d8 (Surr)	103		75 - 120

Client: Ashland Inc. Job Number: 680-58086-1

Client Sample ID: **MW-19S (52610)**

Lab Sample ID: 680-58086-11 Date Sampled: 05/26/2010 1220
Client Matrix: Water Date Received: 05/28/2010 0918

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-170211 Instrument ID: MSO
Preparation: 5030B Lab File ID: o1223.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/01/2010 1820 Final Weight/Volume: 5 mL
Date Prepared: 06/01/2010 1820

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	12	J	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U *	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-58086-1

Client Sample ID: **MW-19S (52610)**

Lab Sample ID: 680-58086-11 Date Sampled: 05/26/2010 1220
Client Matrix: Water Date Received: 05/28/2010 0918

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-170211	Instrument ID: MSO
Preparation:	5030B		Lab File ID: o1223.d
Dilution:	1.0		Initial Weight/Volume: 5 mL
Date Analyzed:	06/01/2010 1820		Final Weight/Volume: 5 mL
Date Prepared:	06/01/2010 1820		

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	91		75 - 120
Dibromofluoromethane	101		75 - 121
Toluene-d8 (Surr)	101		75 - 120

Client: Ashland Inc. Job Number: 680-58086-1

Client Sample ID: **MW-19I (52610)**

Lab Sample ID: 680-58086-12 Date Sampled: 05/26/2010 1305
Client Matrix: Water Date Received: 05/28/2010 0918

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-170360	Instrument ID: MSO2
Preparation:	5030B		Lab File ID: o1264.d
Dilution:	1.0		Initial Weight/Volume: 5 mL
Date Analyzed:	06/02/2010 1347		Final Weight/Volume: 5 mL
Date Prepared:	06/02/2010 1347		

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	6.4	J	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U *	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-58086-1

Client Sample ID: **MW-19I (52610)**

Lab Sample ID: 680-58086-12 Date Sampled: 05/26/2010 1305
Client Matrix: Water Date Received: 05/28/2010 0918

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-170360		Instrument ID:	MSO2
Preparation:	5030B			Lab File ID:	o1264.d
Dilution:	1.0			Initial Weight/Volume:	5 mL
Date Analyzed:	06/02/2010 1347			Final Weight/Volume:	5 mL
Date Prepared:	06/02/2010 1347				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	97		75 - 120
Dibromofluoromethane	104		75 - 121
Toluene-d8 (Surr)	101		75 - 120

Client: Ashland Inc. Job Number: 680-58086-1

Client Sample ID: **MW-18 (52610)**

Lab Sample ID: 680-58086-13 Date Sampled: 05/26/2010 1025
Client Matrix: Water Date Received: 05/28/2010 0918

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-170360 Instrument ID: MSO2
Preparation: 5030B Lab File ID: o1266.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/02/2010 1415 Final Weight/Volume: 5 mL
Date Prepared: 06/02/2010 1415

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	150		5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U *	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-58086-1

Client Sample ID: **MW-18 (52610)**

Lab Sample ID: 680-58086-13 Date Sampled: 05/26/2010 1025
Client Matrix: Water Date Received: 05/28/2010 0918

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-170360	Instrument ID:	MSO2
Preparation:	5030B		Lab File ID:	o1266.d
Dilution:	1.0		Initial Weight/Volume:	5 mL
Date Analyzed:	06/02/2010 1415		Final Weight/Volume:	5 mL
Date Prepared:	06/02/2010 1415			

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	96		75 - 120
Dibromofluoromethane	104		75 - 121
Toluene-d8 (Surr)	104		75 - 120

Client: Ashland Inc. Job Number: 680-58086-1

Client Sample ID: **MW-16S (52710)**

Lab Sample ID: 680-58086-14 Date Sampled: 05/27/2010 1055
Client Matrix: Water Date Received: 05/28/2010 0918

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-170360		Instrument ID:	MSO2
Preparation:	5030B			Lab File ID:	o1272.d
Dilution:	1.0			Initial Weight/Volume:	5 mL
Date Analyzed:	06/02/2010 1542			Final Weight/Volume:	5 mL
Date Prepared:	06/02/2010 1542				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	18	J	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U *	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-58086-1

Client Sample ID: **MW-16S (52710)**

Lab Sample ID: 680-58086-14 Date Sampled: 05/27/2010 1055
Client Matrix: Water Date Received: 05/28/2010 0918

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-170360	Instrument ID: MSO2
Preparation:	5030B		Lab File ID: o1272.d
Dilution:	1.0		Initial Weight/Volume: 5 mL
Date Analyzed:	06/02/2010 1542		Final Weight/Volume: 5 mL
Date Prepared:	06/02/2010 1542		

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	96		75 - 120
Dibromofluoromethane	106		75 - 121
Toluene-d8 (Surr)	103		75 - 120

Client: Ashland Inc. Job Number: 680-58086-1

Client Sample ID: **MW-16D (52710)**

Lab Sample ID: 680-58086-15 Date Sampled: 05/27/2010 1100
Client Matrix: Water Date Received: 05/28/2010 0918

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-170360 Instrument ID: MSO2
Preparation: 5030B Lab File ID: o1274.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/02/2010 1610 Final Weight/Volume: 5 mL
Date Prepared: 06/02/2010 1610

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U *	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-58086-1

Client Sample ID: **MW-16D (52710)**

Lab Sample ID: 680-58086-15 Date Sampled: 05/27/2010 1100
Client Matrix: Water Date Received: 05/28/2010 0918

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-170360	Instrument ID:	MSO2
Preparation:	5030B		Lab File ID:	o1274.d
Dilution:	1.0		Initial Weight/Volume:	5 mL
Date Analyzed:	06/02/2010 1610		Final Weight/Volume:	5 mL
Date Prepared:	06/02/2010 1610			

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	97		75 - 120
Dibromofluoromethane	106		75 - 121
Toluene-d8 (Surr)	102		75 - 120

Client: Ashland Inc. Job Number: 680-58086-1

Client Sample ID: **MW-32D (52710)**

Lab Sample ID: 680-58086-16 Date Sampled: 05/27/2010 1330
Client Matrix: Water Date Received: 05/28/2010 0918

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-170469 Instrument ID: MSO
Preparation: 5030B Lab File ID: o2003.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/03/2010 1205 Final Weight/Volume: 5 mL
Date Prepared: 06/03/2010 1205

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	3.1		0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	0.15	J	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-58086-1

Client Sample ID: **MW-32D (52710)**

Lab Sample ID: 680-58086-16 Date Sampled: 05/27/2010 1330
Client Matrix: Water Date Received: 05/28/2010 0918

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-170469 Instrument ID: MSO
Preparation: 5030B Lab File ID: o2003.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/03/2010 1205 Final Weight/Volume: 5 mL
Date Prepared: 06/03/2010 1205

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	0.38	J	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	94		75 - 120
Dibromofluoromethane	107		75 - 121
Toluene-d8 (Surr)	105		75 - 120

Client: Ashland Inc. Job Number: 680-58086-1

Client Sample ID: **MW-30S (52710)**

Lab Sample ID: 680-58086-18 Date Sampled: 05/27/2010 1235
Client Matrix: Water Date Received: 05/28/2010 0918

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-170360		Instrument ID:	MSO2
Preparation:	5030B			Lab File ID:	o1278.d
Dilution:	1.0			Initial Weight/Volume:	5 mL
Date Analyzed:	06/02/2010 1708			Final Weight/Volume:	5 mL
Date Prepared:	06/02/2010 1708				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	30		5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U *	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-58086-1

Client Sample ID: **MW-30S (52710)**

Lab Sample ID: 680-58086-18 Date Sampled: 05/27/2010 1235
Client Matrix: Water Date Received: 05/28/2010 0918

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-170360	Instrument ID: MSO2
Preparation:	5030B		Lab File ID: o1278.d
Dilution:	1.0		Initial Weight/Volume: 5 mL
Date Analyzed:	06/02/2010 1708		Final Weight/Volume: 5 mL
Date Prepared:	06/02/2010 1708		

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	96		75 - 120
Dibromofluoromethane	107		75 - 121
Toluene-d8 (Surr)	105		75 - 120

Client: Ashland Inc. Job Number: 680-58086-1

Client Sample ID: **MW-30D (52710)**

Lab Sample ID: 680-58086-19 Date Sampled: 05/27/2010 1225
Client Matrix: Water Date Received: 05/28/2010 0918

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-170469	Instrument ID: MSO
Preparation:	5030B		Lab File ID: o2005.d
Dilution:	1.0		Initial Weight/Volume: 5 mL
Date Analyzed:	06/03/2010 1234		Final Weight/Volume: 5 mL
Date Prepared:	06/03/2010 1234		

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-58086-1

Client Sample ID: **MW-30D (52710)**

Lab Sample ID: 680-58086-19 Date Sampled: 05/27/2010 1225
Client Matrix: Water Date Received: 05/28/2010 0918

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-170469 Instrument ID: MSO
Preparation: 5030B Lab File ID: o2005.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/03/2010 1234 Final Weight/Volume: 5 mL
Date Prepared: 06/03/2010 1234

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	100		75 - 120
Dibromofluoromethane	108		75 - 121
Toluene-d8 (Surr)	107		75 - 120

Client: Ashland Inc. Job Number: 680-58086-1

Client Sample ID: **MW-33 (52710)**

Lab Sample ID: 680-58086-20 Date Sampled: 05/27/2010 1505
Client Matrix: Water Date Received: 05/28/2010 0918

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-170350	Instrument ID: MSO
Preparation:	5030B		Lab File ID: o1275.d
Dilution:	1.0		Initial Weight/Volume: 5 mL
Date Analyzed:	06/02/2010 1625		Final Weight/Volume: 5 mL
Date Prepared:	06/02/2010 1625		

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-58086-1

Client Sample ID: **MW-33 (52710)**

Lab Sample ID: 680-58086-20 Date Sampled: 05/27/2010 1505
Client Matrix: Water Date Received: 05/28/2010 0918

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-170350 Instrument ID: MSO
Preparation: 5030B Lab File ID: o1275.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/02/2010 1625 Final Weight/Volume: 5 mL
Date Prepared: 06/02/2010 1625

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	89		75 - 120
Dibromofluoromethane	102		75 - 121
Toluene-d8 (Surr)	101		75 - 120

Client: Ashland Inc. Job Number: 680-58086-1

Client Sample ID: **MW-53S (52710)**

Lab Sample ID: 680-58086-21 Date Sampled: 05/27/2010 1540
Client Matrix: Water Date Received: 05/28/2010 0918

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-170350	Instrument ID: MSO
Preparation:	5030B		Lab File ID: o1277.d
Dilution:	1.0		Initial Weight/Volume: 5 mL
Date Analyzed:	06/02/2010 1654		Final Weight/Volume: 5 mL
Date Prepared:	06/02/2010 1654		

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-58086-1

Client Sample ID: **MW-53S (52710)**

Lab Sample ID: 680-58086-21 Date Sampled: 05/27/2010 1540
Client Matrix: Water Date Received: 05/28/2010 0918

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-170350	Instrument ID:	MSO
Preparation:	5030B		Lab File ID:	o1277.d
Dilution:	1.0		Initial Weight/Volume:	5 mL
Date Analyzed:	06/02/2010 1654		Final Weight/Volume:	5 mL
Date Prepared:	06/02/2010 1654			

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	88		75 - 120
Dibromofluoromethane	102		75 - 121
Toluene-d8 (Surr)	100		75 - 120

Client: Ashland Inc. Job Number: 680-58086-1

Client Sample ID: **Trip Blank**

Lab Sample ID: 680-58086-22TB Date Sampled: 05/27/2010 0000
Client Matrix: Water Date Received: 05/28/2010 0918

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-170469		Instrument ID:	MSO
Preparation:	5030B			Lab File ID:	o2015.d
Dilution:	1.0			Initial Weight/Volume:	5 mL
Date Analyzed:	06/03/2010 1457			Final Weight/Volume:	5 mL
Date Prepared:	06/03/2010 1457				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-58086-1

Client Sample ID: **Trip Blank**

Lab Sample ID: 680-58086-22TB Date Sampled: 05/27/2010 0000
Client Matrix: Water Date Received: 05/28/2010 0918

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-170469	Instrument ID:	MSO
Preparation:	5030B		Lab File ID:	o2015.d
Dilution:	1.0		Initial Weight/Volume:	5 mL
Date Analyzed:	06/03/2010 1457		Final Weight/Volume:	5 mL
Date Prepared:	06/03/2010 1457			

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	100		75 - 120
Dibromofluoromethane	103		75 - 121
Toluene-d8 (Surr)	109		75 - 120

Client: Ashland Inc. Job Number: 680-58086-1

Client Sample ID: **MW-37S (52510)**

Lab Sample ID: 680-58086-2 Date Sampled: 05/25/2010 1650
Client Matrix: Water Date Received: 05/28/2010 0918

8081A_8082 Organochlorine Pesticides & PCBs (GC)

Method:	8081A_8082	Analysis Batch: 680-170563		Instrument ID:	SGJ
Preparation:	3520C	Prep Batch: 680-170229		Initial Weight/Volume:	500 mL
Dilution:	1.0			Final Weight/Volume:	5 mL
Date Analyzed:	06/03/2010 2200			Injection Volume:	2 uL
Date Prepared:	06/01/2010 1533			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Total	5.0	U	0.50	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	47		14 - 115
Tetrachloro-m-xylene	60		35 - 120

Client: Ashland Inc. Job Number: 680-58086-1

Client Sample ID: **MW-37I (52510)**

Lab Sample ID: 680-58086-3 Date Sampled: 05/25/2010 1840
Client Matrix: Water Date Received: 05/28/2010 0918

8081A_8082 Organochlorine Pesticides & PCBs (GC)

Method:	8081A_8082	Analysis Batch: 680-170563		Instrument ID:	SGJ
Preparation:	3520C	Prep Batch: 680-170229		Initial Weight/Volume:	1050 mL
Dilution:	1.0			Final Weight/Volume:	10 mL
Date Analyzed:	06/03/2010 2223			Injection Volume:	2 uL
Date Prepared:	06/01/2010 1533			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Total	4.8	U	0.48	4.8

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	24		14 - 115
Tetrachloro-m-xylene	61		35 - 120

Client: Ashland Inc. Job Number: 680-58086-1

Client Sample ID: **MW-40D (52610)**

Lab Sample ID: 680-58086-4 Date Sampled: 05/26/2010 1710
Client Matrix: Water Date Received: 05/28/2010 0918

8081A_8082 Organochlorine Pesticides & PCBs (GC)

Method:	8081A_8082	Analysis Batch: 680-170563		Instrument ID:	SGJ
Preparation:	3520C	Prep Batch: 680-170229		Initial Weight/Volume:	1030 mL
Dilution:	1.0			Final Weight/Volume:	10 mL
Date Analyzed:	06/03/2010 2246			Injection Volume:	2 uL
Date Prepared:	06/01/2010 1533			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Total	4.9	U	0.49	4.9

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	30		14 - 115
Tetrachloro-m-xylene	62		35 - 120

Client: Ashland Inc. Job Number: 680-58086-1

Client Sample ID: **MW-40S (52610)**

Lab Sample ID: 680-58086-5 Date Sampled: 05/26/2010 1800
Client Matrix: Water Date Received: 05/28/2010 0918

8081A_8082 Organochlorine Pesticides & PCBs (GC)

Method:	8081A_8082	Analysis Batch: 680-170563		Instrument ID:	SGJ
Preparation:	3520C	Prep Batch: 680-170229		Initial Weight/Volume:	1030 mL
Dilution:	1.0			Final Weight/Volume:	10 mL
Date Analyzed:	06/03/2010 2309			Injection Volume:	2 uL
Date Prepared:	06/01/2010 1533			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Total	4.9	U	0.49	4.9

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	15		14 - 115
Tetrachloro-m-xylene	36		35 - 120

Client: Ashland Inc. Job Number: 680-58086-1

Client Sample ID: **MW-40I (52610)**

Lab Sample ID: 680-58086-6 Date Sampled: 05/26/2010 1620
Client Matrix: Water Date Received: 05/28/2010 0918

8081A_8082 Organochlorine Pesticides & PCBs (GC)

Method:	8081A_8082	Analysis Batch: 680-170563		Instrument ID:	SGJ
Preparation:	3520C	Prep Batch: 680-170229		Initial Weight/Volume:	1050 mL
Dilution:	1.0			Final Weight/Volume:	10 mL
Date Analyzed:	06/03/2010 2332			Injection Volume:	2 uL
Date Prepared:	06/01/2010 1533			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Total	4.8	U	0.48	4.8

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	22		14 - 115
Tetrachloro-m-xylene	43		35 - 120

Client: Ashland Inc. Job Number: 680-58086-1

Client Sample ID: **MW-27D (52610)**

Lab Sample ID: 680-58086-9 Date Sampled: 05/26/2010 1405
Client Matrix: Water Date Received: 05/28/2010 0918

8081A_8082 Organochlorine Pesticides & PCBs (GC)

Method:	8081A_8082	Analysis Batch: 680-170563		Instrument ID:	SGJ
Preparation:	3520C	Prep Batch: 680-170229		Initial Weight/Volume:	1050 mL
Dilution:	1.0			Final Weight/Volume:	10 mL
Date Analyzed:	06/03/2010 2355			Injection Volume:	2 uL
Date Prepared:	06/01/2010 1533			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Total	4.8	U	0.48	4.8

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	15		14 - 115
Tetrachloro-m-xylene	51		35 - 120

Client: Ashland Inc. Job Number: 680-58086-1

Client Sample ID: **MW-32D (52710)**

Lab Sample ID: 680-58086-16 Date Sampled: 05/27/2010 1330
Client Matrix: Water Date Received: 05/28/2010 0918

8081A_8082 Organochlorine Pesticides & PCBs (GC)

Method:	8081A_8082	Analysis Batch: 680-170563		Instrument ID:	SGJ
Preparation:	3520C	Prep Batch: 680-170229		Initial Weight/Volume:	1050 mL
Dilution:	1.0			Final Weight/Volume:	10 mL
Date Analyzed:	06/04/2010 0018			Injection Volume:	2 uL
Date Prepared:	06/01/2010 1533			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Total	4.8	U	0.48	4.8

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	25		14 - 115
Tetrachloro-m-xylene	80		35 - 120

Client: Ashland Inc. Job Number: 680-58086-1

Client Sample ID: **MW-33 (52710)**

Lab Sample ID: 680-58086-20 Date Sampled: 05/27/2010 1505
Client Matrix: Water Date Received: 05/28/2010 0918

8081A_8082 Organochlorine Pesticides & PCBs (GC)

Method:	8081A_8082	Analysis Batch: 680-170563		Instrument ID:	SGJ
Preparation:	3520C	Prep Batch: 680-170229		Initial Weight/Volume:	1030 mL
Dilution:	1.0			Final Weight/Volume:	10 mL
Date Analyzed:	06/04/2010 0041			Injection Volume:	2 uL
Date Prepared:	06/01/2010 1533			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Total	4.9	U	0.49	4.9

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	36		14 - 115
Tetrachloro-m-xylene	63		35 - 120

Client: Ashland Inc. Job Number: 680-58086-1

Client Sample ID: **MW-53S (52710)**

Lab Sample ID: 680-58086-21 Date Sampled: 05/27/2010 1540
Client Matrix: Water Date Received: 05/28/2010 0918

8081A_8082 Organochlorine Pesticides & PCBs (GC)

Method:	8081A_8082	Analysis Batch: 680-170563		Instrument ID:	SGJ
Preparation:	3520C	Prep Batch: 680-170229		Initial Weight/Volume:	1030 mL
Dilution:	1.0			Final Weight/Volume:	10 mL
Date Analyzed:	06/04/2010 0104			Injection Volume:	2 uL
Date Prepared:	06/01/2010 1533			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Total	4.9	U	0.49	4.9

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	27		14 - 115
Tetrachloro-m-xylene	46		35 - 120

Client: Ashland Inc. Job Number: 680-58086-1

Client Sample ID: **MW-37S (52510)**

Lab Sample ID: 680-58086-2 Date Sampled: 05/25/2010 1650
Client Matrix: Water Date Received: 05/28/2010 0918

8081B/8082A Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Method:	8081B/8082A	Analysis Batch: 680-170565		Instrument ID:	SGJ
Preparation:	3520C	Prep Batch: 680-170229		Initial Weight/Volume:	500 mL
Dilution:	1.0			Final Weight/Volume:	5 mL
Date Analyzed:	06/03/2010 2200			Injection Volume:	2 uL
Date Prepared:	06/01/2010 1533			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Technical	5.0	U	0.50	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	47		14 - 115
Tetrachloro-m-xylene	60		35 - 120

Client: Ashland Inc. Job Number: 680-58086-1

Client Sample ID: **MW-37I (52510)**

Lab Sample ID: 680-58086-3 Date Sampled: 05/25/2010 1840
Client Matrix: Water Date Received: 05/28/2010 0918

8081B/8082A Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Method:	8081B/8082A	Analysis Batch: 680-170565		Instrument ID:	SGJ
Preparation:	3520C	Prep Batch: 680-170229		Initial Weight/Volume:	1050 mL
Dilution:	1.0			Final Weight/Volume:	10 mL
Date Analyzed:	06/03/2010 2223			Injection Volume:	2 uL
Date Prepared:	06/01/2010 1533			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Technical	4.8	U	0.48	4.8

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	24		14 - 115
Tetrachloro-m-xylene	61		35 - 120

Client: Ashland Inc. Job Number: 680-58086-1

Client Sample ID: **MW-40D (52610)**

Lab Sample ID: 680-58086-4 Date Sampled: 05/26/2010 1710
Client Matrix: Water Date Received: 05/28/2010 0918

8081B/8082A Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Method:	8081B/8082A	Analysis Batch: 680-170565		Instrument ID:	SGJ
Preparation:	3520C	Prep Batch: 680-170229		Initial Weight/Volume:	1030 mL
Dilution:	1.0			Final Weight/Volume:	10 mL
Date Analyzed:	06/03/2010 2246			Injection Volume:	2 uL
Date Prepared:	06/01/2010 1533			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Technical	4.9	U	0.49	4.9

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	30		14 - 115
Tetrachloro-m-xylene	62		35 - 120

Client: Ashland Inc. Job Number: 680-58086-1

Client Sample ID: **MW-40S (52610)**

Lab Sample ID: 680-58086-5 Date Sampled: 05/26/2010 1800
Client Matrix: Water Date Received: 05/28/2010 0918

8081B/8082A Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Method:	8081B/8082A	Analysis Batch: 680-170565		Instrument ID:	SGJ
Preparation:	3520C	Prep Batch: 680-170229		Initial Weight/Volume:	1030 mL
Dilution:	1.0			Final Weight/Volume:	10 mL
Date Analyzed:	06/03/2010 2309			Injection Volume:	2 uL
Date Prepared:	06/01/2010 1533			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Technical	4.9	U	0.49	4.9

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	15		14 - 115
Tetrachloro-m-xylene	36		35 - 120

Client: Ashland Inc. Job Number: 680-58086-1

Client Sample ID: **MW-40I (52610)**

Lab Sample ID: 680-58086-6 Date Sampled: 05/26/2010 1620
Client Matrix: Water Date Received: 05/28/2010 0918

8081B/8082A Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Method:	8081B/8082A	Analysis Batch: 680-170565		Instrument ID:	SGJ
Preparation:	3520C	Prep Batch: 680-170229		Initial Weight/Volume:	1050 mL
Dilution:	1.0			Final Weight/Volume:	10 mL
Date Analyzed:	06/03/2010 2332			Injection Volume:	2 uL
Date Prepared:	06/01/2010 1533			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Technical	4.8	U	0.48	4.8

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	22		14 - 115
Tetrachloro-m-xylene	43		35 - 120

Client: Ashland Inc. Job Number: 680-58086-1

Client Sample ID: **MW-27D (52610)**

Lab Sample ID: 680-58086-9 Date Sampled: 05/26/2010 1405
Client Matrix: Water Date Received: 05/28/2010 0918

8081B/8082A Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Method:	8081B/8082A	Analysis Batch: 680-170565		Instrument ID:	SGJ
Preparation:	3520C	Prep Batch: 680-170229		Initial Weight/Volume:	1050 mL
Dilution:	1.0			Final Weight/Volume:	10 mL
Date Analyzed:	06/03/2010 2355			Injection Volume:	2 uL
Date Prepared:	06/01/2010 1533			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Technical	4.8	U	0.48	4.8

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	15		14 - 115
Tetrachloro-m-xylene	51		35 - 120

Client: Ashland Inc. Job Number: 680-58086-1

Client Sample ID: **MW-32D (52710)**

Lab Sample ID: 680-58086-16 Date Sampled: 05/27/2010 1330
Client Matrix: Water Date Received: 05/28/2010 0918

8081B/8082A Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Method:	8081B/8082A	Analysis Batch: 680-170565		Instrument ID:	SGJ
Preparation:	3520C	Prep Batch: 680-170229		Initial Weight/Volume:	1050 mL
Dilution:	1.0			Final Weight/Volume:	10 mL
Date Analyzed:	06/04/2010 0018			Injection Volume:	2 uL
Date Prepared:	06/01/2010 1533			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Technical	4.8	U	0.48	4.8

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	25		14 - 115
Tetrachloro-m-xylene	80		35 - 120

Client: Ashland Inc. Job Number: 680-58086-1

Client Sample ID: **MW-33 (52710)**

Lab Sample ID: 680-58086-20 Date Sampled: 05/27/2010 1505
Client Matrix: Water Date Received: 05/28/2010 0918

8081B/8082A Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Method:	8081B/8082A	Analysis Batch: 680-170565		Instrument ID:	SGJ
Preparation:	3520C	Prep Batch: 680-170229		Initial Weight/Volume:	1030 mL
Dilution:	1.0			Final Weight/Volume:	10 mL
Date Analyzed:	06/04/2010 0041			Injection Volume:	2 uL
Date Prepared:	06/01/2010 1533			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Technical	4.9	U	0.49	4.9

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	36		14 - 115
Tetrachloro-m-xylene	63		35 - 120

Client: Ashland Inc. Job Number: 680-58086-1

Client Sample ID: **MW-53S (52710)**

Lab Sample ID: 680-58086-21 Date Sampled: 05/27/2010 1540
Client Matrix: Water Date Received: 05/28/2010 0918

8081B/8082A Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Method:	8081B/8082A	Analysis Batch: 680-170565		Instrument ID:	SGJ
Preparation:	3520C	Prep Batch: 680-170229		Initial Weight/Volume:	1030 mL
Dilution:	1.0			Final Weight/Volume:	10 mL
Date Analyzed:	06/04/2010 0104			Injection Volume:	2 uL
Date Prepared:	06/01/2010 1533			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Technical	4.9	U	0.49	4.9

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	27		14 - 115
Tetrachloro-m-xylene	46		35 - 120

Client: Ashland Inc. Job Number: 680-58086-1

Client Sample ID: **MW-37S (52510)**

Lab Sample ID: 680-58086-2 Date Sampled: 05/25/2010 1650
Client Matrix: Water Date Received: 05/28/2010 0918

6010B Metals (ICP)-Total Recoverable

Method:	6010B	Analysis Batch: 680-170841		Instrument ID:	ICPD
Preparation:	3005A	Prep Batch: 680-170586		Lab File ID:	060710.chr
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	06/08/2010 0525			Final Weight/Volume:	50 mL
Date Prepared:	06/04/2010 1143				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	20	U	5.2	20
Arsenic	20	U	10	20
Barium	48		2.0	10
Beryllium	0.13	J	0.10	4.0
Cadmium	5.0	U	2.0	5.0
Chromium	2.7	J	2.0	10
Cobalt	10	U	1.0	10
Copper	20	U	5.0	20
Lead	10	U	3.4	10
Nickel	40	U	4.0	40
Selenium	20	U	6.4	20
Silver	10	U	0.97	10
Thallium	25	U	8.7	25
Tin	50	U	5.4	50
Vanadium	5.0	J	3.0	10
Zinc	20	U	6.3	20

7470A Mercury (CVAA)

Method:	7470A	Analysis Batch: 680-171106		Instrument ID:	LEEMAN1
Preparation:	7470A	Prep Batch: 680-170770		Lab File ID:	b060810.chr
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	06/09/2010 1916			Final Weight/Volume:	50 mL
Date Prepared:	06/07/2010 1632				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.091	0.20

Client: Ashland Inc. Job Number: 680-58086-1

Client Sample ID: **MW-37I (52510)**

Lab Sample ID: 680-58086-3 Date Sampled: 05/25/2010 1840
Client Matrix: Water Date Received: 05/28/2010 0918

6010B Metals (ICP)-Total Recoverable

Method:	6010B	Analysis Batch: 680-170841		Instrument ID:	ICPD
Preparation:	3005A	Prep Batch: 680-170586		Lab File ID:	060710.chr
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	06/08/2010 0530			Final Weight/Volume:	50 mL
Date Prepared:	06/04/2010 1143				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	20	U	5.2	20
Arsenic	20	U	10	20
Barium	55		2.0	10
Beryllium	0.34	J	0.10	4.0
Cadmium	5.0	U	2.0	5.0
Chromium	43		2.0	10
Cobalt	3.2	J	1.0	10
Copper	20	U	5.0	20
Lead	10	U	3.4	10
Nickel	16	J	4.0	40
Selenium	20	U	6.4	20
Silver	10	U	0.97	10
Thallium	25	U	8.7	25
Tin	50	U	5.4	50
Vanadium	13		3.0	10
Zinc	19	J	6.3	20

7470A Mercury (CVAA)

Method:	7470A	Analysis Batch: 680-171106		Instrument ID:	LEEMAN1
Preparation:	7470A	Prep Batch: 680-170770		Lab File ID:	b060810.chr
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	06/09/2010 1918			Final Weight/Volume:	50 mL
Date Prepared:	06/07/2010 1632				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.091	0.20

Client: Ashland Inc. Job Number: 680-58086-1

Client Sample ID: **MW-40D (52610)**

Lab Sample ID: 680-58086-4 Date Sampled: 05/26/2010 1710
Client Matrix: Water Date Received: 05/28/2010 0918

6010B Metals (ICP)-Total Recoverable

Method:	6010B	Analysis Batch: 680-170841		Instrument ID:	ICPD
Preparation:	3005A	Prep Batch: 680-170586		Lab File ID:	060710.chr
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	06/08/2010 0535			Final Weight/Volume:	50 mL
Date Prepared:	06/04/2010 1143				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	20	U	5.2	20
Arsenic	20	U	10	20
Barium	4.5	J	2.0	10
Beryllium	4.0	U	0.10	4.0
Cadmium	5.0	U	2.0	5.0
Chromium	10	U	2.0	10
Cobalt	10	U	1.0	10
Copper	20	U	5.0	20
Lead	10	U	3.4	10
Nickel	40	U	4.0	40
Selenium	20	U	6.4	20
Silver	10	U	0.97	10
Thallium	25	U	8.7	25
Tin	50	U	5.4	50
Vanadium	10	U	3.0	10
Zinc	20	U	6.3	20

7470A Mercury (CVAA)

Method:	7470A	Analysis Batch: 680-171106		Instrument ID:	LEEMAN1
Preparation:	7470A	Prep Batch: 680-170770		Lab File ID:	b060810.chr
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	06/09/2010 1921			Final Weight/Volume:	50 mL
Date Prepared:	06/07/2010 1632				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.091	0.20

Client: Ashland Inc. Job Number: 680-58086-1

Client Sample ID: **MW-40S (52610)**

Lab Sample ID: 680-58086-5 Date Sampled: 05/26/2010 1800
Client Matrix: Water Date Received: 05/28/2010 0918

6010B Metals (ICP)-Total Recoverable

Method:	6010B	Analysis Batch: 680-170841		Instrument ID:	ICPD
Preparation:	3005A	Prep Batch: 680-170586		Lab File ID:	060710.chr
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	06/08/2010 0540			Final Weight/Volume:	50 mL
Date Prepared:	06/04/2010 1143				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	20	U	5.2	20
Arsenic	20	U	10	20
Barium	40		2.0	10
Beryllium	0.12	J	0.10	4.0
Cadmium	5.0	U	2.0	5.0
Chromium	3.7	J	2.0	10
Cobalt	10	U	1.0	10
Copper	20	U	5.0	20
Lead	10	U	3.4	10
Nickel	40	U	4.0	40
Selenium	20	U	6.4	20
Silver	10	U	0.97	10
Thallium	25	U	8.7	25
Tin	50	U	5.4	50
Vanadium	6.7	J	3.0	10
Zinc	9.8	J	6.3	20

7470A Mercury (CVAA)

Method:	7470A	Analysis Batch: 680-171106		Instrument ID:	LEEMAN1
Preparation:	7470A	Prep Batch: 680-170770		Lab File ID:	b060810.chr
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	06/09/2010 1924			Final Weight/Volume:	50 mL
Date Prepared:	06/07/2010 1632				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.091	0.20

Client: Ashland Inc. Job Number: 680-58086-1

Client Sample ID: **MW-40I (52610)**

Lab Sample ID: 680-58086-6 Date Sampled: 05/26/2010 1620
Client Matrix: Water Date Received: 05/28/2010 0918

6010B Metals (ICP)-Total Recoverable

Method:	6010B	Analysis Batch: 680-170841		Instrument ID:	ICPD
Preparation:	3005A	Prep Batch: 680-170586		Lab File ID:	060710.chr
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	06/08/2010 0555			Final Weight/Volume:	50 mL
Date Prepared:	06/04/2010 1143				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	20	U	5.2	20
Arsenic	20	U	10	20
Barium	110		2.0	10
Beryllium	4.0	U	0.10	4.0
Cadmium	5.0	U	2.0	5.0
Chromium	10	U	2.0	10
Cobalt	10	U	1.0	10
Copper	20	U	5.0	20
Lead	10	U	3.4	10
Nickel	40	U	4.0	40
Selenium	20	U	6.4	20
Silver	10	U	0.97	10
Thallium	25	U	8.7	25
Tin	50	U	5.4	50
Vanadium	10	U	3.0	10
Zinc	20	U	6.3	20

7470A Mercury (CVAA)

Method:	7470A	Analysis Batch: 680-171106		Instrument ID:	LEEMAN1
Preparation:	7470A	Prep Batch: 680-170770		Lab File ID:	b060810.chr
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	06/09/2010 1927			Final Weight/Volume:	50 mL
Date Prepared:	06/07/2010 1632				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.091	0.20

Client: Ashland Inc. Job Number: 680-58086-1

Client Sample ID: **MW-41I (52710)**

Lab Sample ID: 680-58086-17 Date Sampled: 05/27/2010 1405
Client Matrix: Water Date Received: 05/28/2010 0918

6010B Metals (ICP)-Total Recoverable

Method:	6010B	Analysis Batch: 680-170841		Instrument ID:	ICPD
Preparation:	3005A	Prep Batch: 680-170586		Lab File ID:	060710.chr
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	06/08/2010 0600			Final Weight/Volume:	50 mL
Date Prepared:	06/04/2010 1143				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	5.2	J	5.2	20
Arsenic	20	U	10	20
Barium	2800		2.0	10
Beryllium	0.14	J	0.10	4.0
Cadmium	3.9	J	2.0	5.0
Chromium	2.7	J	2.0	10
Cobalt	10	U	1.0	10
Copper	5.6	J	5.0	20
Lead	10	U	3.4	10
Nickel	40	U	4.0	40
Selenium	20	U	6.4	20
Silver	10	U	0.97	10
Thallium	25	U	8.7	25
Tin	50	U	5.4	50
Vanadium	10	U	3.0	10
Zinc	8.2	J	6.3	20

7470A Mercury (CVAA)

Method:	7470A	Analysis Batch: 680-171106		Instrument ID:	LEEMAN1
Preparation:	7470A	Prep Batch: 680-170770		Lab File ID:	b060810.chr
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	06/09/2010 1936			Final Weight/Volume:	50 mL
Date Prepared:	06/07/2010 1632				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.091	0.20

Client: Ashland Inc. Job Number: 680-58086-1

Client Sample ID: **MW-53S (52710)**

Lab Sample ID: 680-58086-21 Date Sampled: 05/27/2010 1540
Client Matrix: Water Date Received: 05/28/2010 0918

6010B Metals (ICP)-Total Recoverable

Method:	6010B	Analysis Batch: 680-170841		Instrument ID:	ICPD
Preparation:	3005A	Prep Batch: 680-170586		Lab File ID:	060710.chr
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	06/08/2010 0605			Final Weight/Volume:	50 mL
Date Prepared:	06/04/2010 1143				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	20	U	5.2	20
Arsenic	20	U	10	20
Barium	47		2.0	10
Beryllium	0.12	J	0.10	4.0
Cadmium	5.0	U	2.0	5.0
Chromium	4.0	J	2.0	10
Cobalt	10	U	1.0	10
Copper	20	U	5.0	20
Lead	10	U	3.4	10
Nickel	40	U	4.0	40
Selenium	20	U	6.4	20
Silver	10	U	0.97	10
Thallium	25	U	8.7	25
Tin	50	U	5.4	50
Vanadium	10	U	3.0	10
Zinc	13	J	6.3	20

7470A Mercury (CVAA)

Method:	7470A	Analysis Batch: 680-171106		Instrument ID:	LEEMAN1
Preparation:	7470A	Prep Batch: 680-170770		Lab File ID:	b060810.chr
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	06/09/2010 1939			Final Weight/Volume:	50 mL
Date Prepared:	06/07/2010 1632				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.091	0.20

DATA REPORTING QUALIFIERS

Client: Ashland Inc. Job Number: 680-58086-1

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Indicates the analyte was analyzed for but not detected.
	*	LCS or LCSD exceeds the control limits
	E	Result exceeded calibration range.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	X	Surrogate is outside control limits
GC Semi VOA		
	U	Indicates the analyte was analyzed for but not detected.
	p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
Metals		
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

QUALITY CONTROL RESULTS

Client: Ashland Inc. Job Number: 680-58086-1

QCtAssociaaioetSommary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:680-170211					
LCS 680-170211/4	Lab Control Sample	T	Water	8260B	
LCSD 680-170211/5	Lab Control Sample Duplicate	T	Water	8260B	
MB 680-170211/8	Method Blank	T	Water	8260B	
680-58086-11	MW-19S (52610)	T	Water	8260B	
Analysis Batch:680-170241					
LCS 680-170241/5	Lab Control Sample	T	Water	8260B	
LCSD 680-170241/6	Lab Control Sample Duplicate	T	Water	8260B	
MB 680-170241/1	Method Blank	T	Water	8260B	
680-58086-1	MW-37D (52510)	T	Water	8260B	
680-58086-2	MW-37S (52510)	T	Water	8260B	
680-58086-3	MW-37I (52510)	T	Water	8260B	
Analysis Batch:680-170256					
LCS 680-170256/4	Lab Control Sample	T	Water	8260B	
LCSD 680-170256/6	Lab Control Sample Duplicate	T	Water	8260B	
MB 680-170256/8	Method Blank	T	Water	8260B	
680-58086-4	MW-40D (52610)	T	Water	8260B	
680-58086-5	MW-40S (52610)	T	Water	8260B	
680-58086-6	MW-40I (52610)	T	Water	8260B	
680-58086-7	MW-17S (52610)	T	Water	8260B	
680-58086-9	MW-27D (52610)	T	Water	8260B	
Analysis Batch:680-170350					
LCS 680-170350/4	Lab Control Sample	T	Water	8260B	
MB 680-170350/7	Method Blank	T	Water	8260B	
680-58086-20	MW-33 (52710)	T	Water	8260B	
680-58086-21	MW-53S (52710)	T	Water	8260B	
Analysis Batch:680-170360					
LCS 680-170360/4	Lab Control Sample	T	Water	8260B	
LCSD 680-170360/5	Lab Control Sample Duplicate	T	Water	8260B	
MB 680-170360/7	Method Blank	T	Water	8260B	
680-58086-8	MW-17D (52610)	T	Water	8260B	
680-58086-10	MW-19D (52610)	T	Water	8260B	
680-58086-12	MW-19I (52610)	T	Water	8260B	
680-58086-13	MW-18 (52610)	T	Water	8260B	
680-58086-14	MW-16S (52710)	T	Water	8260B	
680-58086-15	MW-16D (52710)	T	Water	8260B	
680-58086-18	MW-30S (52710)	T	Water	8260B	

Client: Ashland Inc. Job Number: 680-58086-1

QCtAssociaaioetSommary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:680-170469					
LCS 680-170469/4	Lab Control Sample	T	Water	8260B	
LCSD 680-170469/5	Lab Control Sample Duplicate	T	Water	8260B	
MB 680-170469/7	Method Blank	T	Water	8260B	
680-58086-16	MW-32D (52710)	T	Water	8260B	
680-58086-19	MW-30D (52710)	T	Water	8260B	
680-58086-22TB	Trip Blank	T	Water	8260B	

Report Basis
T = Total

Client: Ashland Inc. Job Number: 680-58086-1

QCtAssociaaioetSommary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 680-170229					
LCS 680-170229/27-A	Lab Control Sample	T	Water	3520C	
MB 680-170229/20-A	Method Blank	T	Water	3520C	
680-58086-2	MW-37S (52510)	T	Water	3520C	
680-58086-2MS	Matrix Spike	T	Water	3520C	
680-58086-2MSD	Matrix Spike Duplicate	T	Water	3520C	
680-58086-3	MW-37I (52510)	T	Water	3520C	
680-58086-4	MW-40D (52610)	T	Water	3520C	
680-58086-5	MW-40S (52610)	T	Water	3520C	
680-58086-6	MW-40I (52610)	T	Water	3520C	
680-58086-9	MW-27D (52610)	T	Water	3520C	
680-58086-16	MW-32D (52710)	T	Water	3520C	
680-58086-20	MW-33 (52710)	T	Water	3520C	
680-58086-21	MW-53S (52710)	T	Water	3520C	
Analysis Batch:680-170563					
LCS 680-170229/27-A	Lab Control Sample	T	Water	8081A_8082	680-170229
MB 680-170229/20-A	Method Blank	T	Water	8081A_8082	680-170229
680-58086-2	MW-37S (52510)	T	Water	8081A_8082	680-170229
680-58086-2MS	Matrix Spike	T	Water	8081A_8082	680-170229
680-58086-2MSD	Matrix Spike Duplicate	T	Water	8081A_8082	680-170229
680-58086-3	MW-37I (52510)	T	Water	8081A_8082	680-170229
680-58086-4	MW-40D (52610)	T	Water	8081A_8082	680-170229
680-58086-5	MW-40S (52610)	T	Water	8081A_8082	680-170229
680-58086-6	MW-40I (52610)	T	Water	8081A_8082	680-170229
680-58086-9	MW-27D (52610)	T	Water	8081A_8082	680-170229
680-58086-16	MW-32D (52710)	T	Water	8081A_8082	680-170229
680-58086-20	MW-33 (52710)	T	Water	8081A_8082	680-170229
680-58086-21	MW-53S (52710)	T	Water	8081A_8082	680-170229
Analysis Batch:680-170565					
LCS 680-170229/27-A	Lab Control Sample	T	Water	8081B/8082A	680-170229
MB 680-170229/20-A	Method Blank	T	Water	8081B/8082A	680-170229
680-58086-2	MW-37S (52510)	T	Water	8081B/8082A	680-170229
680-58086-2MS	Matrix Spike	T	Water	8081B/8082A	680-170229
680-58086-2MSD	Matrix Spike Duplicate	T	Water	8081B/8082A	680-170229
680-58086-3	MW-37I (52510)	T	Water	8081B/8082A	680-170229
680-58086-4	MW-40D (52610)	T	Water	8081B/8082A	680-170229
680-58086-5	MW-40S (52610)	T	Water	8081B/8082A	680-170229
680-58086-6	MW-40I (52610)	T	Water	8081B/8082A	680-170229
680-58086-9	MW-27D (52610)	T	Water	8081B/8082A	680-170229
680-58086-16	MW-32D (52710)	T	Water	8081B/8082A	680-170229
680-58086-20	MW-33 (52710)	T	Water	8081B/8082A	680-170229
680-58086-21	MW-53S (52710)	T	Water	8081B/8082A	680-170229

Client: Ashland Inc. Job Number: 680-58086-1

QCtAssociaaioetSommary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch

Report Basis
T = Total

Client: Ashland Inc. Job Number: 680-58086-1

QCtAssociaaioetSommary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 680-170586					
LCS 680-170586/17-A	Lab Control Sample	R	Water	3005A	
MB 680-170586/16-A	Method Blank	R	Water	3005A	
680-58086-2	MW-37S (52510)	R	Water	3005A	
680-58086-3	MW-37I (52510)	R	Water	3005A	
680-58086-4	MW-40D (52610)	R	Water	3005A	
680-58086-5	MW-40S (52610)	R	Water	3005A	
680-58086-6	MW-40I (52610)	R	Water	3005A	
680-58086-17	MW-41I (52710)	R	Water	3005A	
680-58086-21	MW-53S (52710)	R	Water	3005A	
Prep Batch: 680-170770					
LCS 680-170770/24-A	Lab Control Sample	T	Water	7470A	
MB 680-170770/23-A	Method Blank	T	Water	7470A	
680-58086-2	MW-37S (52510)	T	Water	7470A	
680-58086-3	MW-37I (52510)	T	Water	7470A	
680-58086-4	MW-40D (52610)	T	Water	7470A	
680-58086-5	MW-40S (52610)	T	Water	7470A	
680-58086-6	MW-40I (52610)	T	Water	7470A	
680-58086-17	MW-41I (52710)	T	Water	7470A	
680-58086-21	MW-53S (52710)	T	Water	7470A	
Analysis Batch:680-170841					
LCS 680-170586/17-A	Lab Control Sample	R	Water	6010B	680-170586
MB 680-170586/16-A	Method Blank	R	Water	6010B	680-170586
680-58086-2	MW-37S (52510)	R	Water	6010B	680-170586
680-58086-3	MW-37I (52510)	R	Water	6010B	680-170586
680-58086-4	MW-40D (52610)	R	Water	6010B	680-170586
680-58086-5	MW-40S (52610)	R	Water	6010B	680-170586
680-58086-6	MW-40I (52610)	R	Water	6010B	680-170586
680-58086-17	MW-41I (52710)	R	Water	6010B	680-170586
680-58086-21	MW-53S (52710)	R	Water	6010B	680-170586
Analysis Batch:680-171106					
LCS 680-170770/24-A	Lab Control Sample	T	Water	7470A	680-170770
MB 680-170770/23-A	Method Blank	T	Water	7470A	680-170770
680-58086-2	MW-37S (52510)	T	Water	7470A	680-170770
680-58086-3	MW-37I (52510)	T	Water	7470A	680-170770
680-58086-4	MW-40D (52610)	T	Water	7470A	680-170770
680-58086-5	MW-40S (52610)	T	Water	7470A	680-170770
680-58086-6	MW-40I (52610)	T	Water	7470A	680-170770
680-58086-17	MW-41I (52710)	T	Water	7470A	680-170770
680-58086-21	MW-53S (52710)	T	Water	7470A	680-170770

Client: Ashland Inc. Job Number: 680-58086-1

QCtAssociaaioetSommary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch

Report Basis
R = Total Recoverable
T = Total

Client: Ashland Inc. Job Number: 680-58086-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

L8i eS8: po eD	Client Wam4le l2	BFB %Rec	DBFM %Rec	TOL %Rec
680-58086-1	MW-37D (52510)	99	110	102
680-58086-2	MW-37S (52510)	98	106	100
680-58086-3	MW-37I (52510)	98	108	99
680-58086-4	MW-40D (52610)	91	100	110
680-58086-5	MW-40S (52610)	92	99	112
680-58086-6	MW-40I (52610)	89	99	112
680-58086-7	MW-17S (52610)	93	99	108
680-58086-8	MW-17D (52610)	98	9X	102
680-58086-9	MW-27D (52610)	93	103	109
680-58086-10	MW-19D (52610)	102	68X	103
680-58086-11	MW-19S (52610)	91	101	101
680-58086-12	MW-19I (52610)	97	104	101
680-58086-13	MW-18 (52610)	96	104	104
680-58086-14	MW-16S (52710)	96	106	103
680-58086-15	MW-16D (52710)	97	106	102
680-58086-16	MW-32D (52710)	94	107	105
680-58086-18	MW-30S (52710)	96	107	105
680-58086-19	MW-30D (52710)	100	108	107
680-58086-20	MW-33 (52710)	89	102	101
680-58086-21	MW-53S (52710)	88	102	100
680-58086-22	Trip Blank	100	103	109
MB 680-170211/8		87	106	98
MB 680-170241/1		102	98	105
MB 680-170256/8		92	103	110
MB 680-170350/7		110	104	100
MB 680-170360/7		100	109	102
MB 680-170469/7		101	107	107
LCS 680-170211/4		91	111	99
LCS 680-170241/5		106	117	102

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene	75-120
DBFM = Dibromofluoromethane	75-121
TOL = Toluene-d8 (Surr)	75-120

Client: Ashland Inc. Job Number: 680-58086-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	BFB %Rec	DBFM %Rec	TOL %Rec
LCS 680-170256/4		106	105	110
LCS 680-170350/4		95	112	95
LCS 680-170360/4		93	120	103
LCS 680-170469/4		109	112	107
LCSD 680-170211/5		90	112	98
LCSD 680-170241/6		103	116	100
LCSD 680-170256/6		106	110	112
LCSD 680-170360/5		99	118	104
LCSD 680-170469/5		110	112	106

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene	75-120
DBFM = Dibromofluoromethane	75-121
TOL = Toluene-d8 (Surr)	75-120

Client: Ashland Inc. Job Number: 680-58086-1

Surrogate Recovery Report

8081A_8082_Organochlorine Pesticides & PCBs (GC)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCB2 %Rec	TCX1 %Rec	TCX2 %Rec
680-58086-2	MW-37S (52510)	47	60	
680-58086-3	MW-37I (52510)	24	61	
680-58086-4	MW-40D (52610)	30	62	
680-58086-5	MW-40S (52610)	15	36	
680-58086-6	MW-40I (52610)	22	43	
680-58086-9	MW-27D (52610)	15	51	
680-58086-16	MW-32D (52710)	25		80
680-58086-20	MW-33 (52710)	36	63	
680-58086-21	MW-53S (52710)	27	46	
MB 680-170229/20-A		71	74	
LCS 680-170229/27-A		68	71	
680-58086-2 MS	MW-37S (52510) MS	40	72	
680-58086-2 MSD	MW-37S (52510) MSD	34	76	

Surrogate	Acceptance Limits
DCB = DCB Decachlorobiphenyl	14-115
TCX = Tetrachloro-m-xylene	35-120

Client: Ashland Inc. Job Number: 680-58086-1

Surrogate Recovery Report

8081B/8082A Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCB2 %Rec	TCX1 %Rec	TCX2 %Rec
680-58086-2	MW-37S (52510)	47	60	
680-58086-3	MW-37I (52510)	24	61	
680-58086-4	MW-40D (52610)	30	62	
680-58086-5	MW-40S (52610)	15	36	
680-58086-6	MW-40I (52610)	22	43	
680-58086-9	MW-27D (52610)	15	51	
680-58086-16	MW-32D (52710)	25		80
680-58086-20	MW-33 (52710)	36	63	
680-58086-21	MW-53S (52710)	27	46	
MB 680-170229/20-A		71	74	
LCS 680-170229/27-A		68	71	
680-58086-2 MS	MW-37S (52510) MS	40	72	
680-58086-2 MSD	MW-37S (52510) MSD	34	76	

Surrogate	Acceptance Limits
DCB = DCB Decachlorobiphenyl	14-115
TCX = Tetrachloro-m-xylene	35-120

Client: Ashland Inc. Job Number: 680-58086-1

Method Blank - Batch: 680-170211

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-170211/8
Client Matrix: Whnter
Dilution: 1.0
Date Analyzed: 06/01/2010 1235
Date Prepared: 06/01/2010 1235

Analysis Batch: 680-170211
Prep Batch: N/A
Units: ug/L

Instrument ID: MSO
Lab File ID: oq613.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0

Client: Ashland Inc.

Job Number: 680-58086-1

Method Blank - Batch: 680-170211

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-170211/8
Client Matrix: Whnter
Dilution: 1.0
Date Analyzed: 06/01/2010 1235
Date Prepared: 06/01/2010 1235

Analysis Batch: 680-170211
Prep Batch: N/A
Units: ug/L

Instrument ID: MSO
Lab File ID: oq613.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	87	75 - 120
Dibromofluoromethane	106	75 - 121
Toluene-d8 (Surr)	98	75 - 120

Client: Ashland Inc. Job Number: 680-58086-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-170211

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-170211/4	Analysis Batch:	680-170211	Instrument ID:	MSO
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	oq605.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/01/2010 1028			Final Weight/Volume:	5 mL
Date Prepared:	06/01/2010 1028				

LCSD Lab Sample ID:	LCSD 680-170211/5	Analysis Batch:	680-170211	Instrument ID:	MSO
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	oq607.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/01/2010 1057			Final Weight/Volume:	5 mL
Date Prepared:	06/01/2010 1057				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	105	109	17 - 175	4	50		
Benzene	95	94	77 - 119	1	30		
Bromoform	84	84	62 - 133	0	30		
Bromomethane	102	101	12 - 184	1	50		
2-Butanone (MEK)	100	98	33 - 157	2	30		
Carbon disulfide	114	112	55 - 131	2	30		
Carbon tetrachloride	84	84	71 - 135	0	30		
Chlorobenzene	94	93	85 - 116	0	30		
Chlorodibromomethane	82	84	75 - 133	2	30		
Chloroethane	123	115	40 - 165	7	50		
Chloroform	107	108	82 - 120	1	30		
Chloromethane	116	117	48 - 142	0	50		
cis-1,3-Dichloropropene	87	85	76 - 126	3	30		
1,2-Dibromo-3-Chloropropane	89	90	49 - 140	1	30		
Dibromomethane	90	92	78 - 119	2	30		
Dichlorobromomethane	87	86	78 - 127	1	30		
Dichlorodifluoromethane	138	138	34 - 154	0	30		
1,1-Dichloroethane	123	122	74 - 127	1	30		
1,2-Dichloroethane	81	80	66 - 132	2	30		
1,1-Dichloroethene	125	124	62 - 141	0	30		
1,2-Dichloropropane	98	97	73 - 124	1	30		
Ethylbenzene	93	94	86 - 116	2	30		
Ethylene Dibromide	89	88	80 - 121	1	30		
2-Hexanone	83	86	34 - 161	4	30		
Methylene Chloride	127	126	70 - 125	0	30	*	*
4-Methyl-2-pentanone (MIBK)	82	82	40 - 151	0	30		
Styrene	93	92	82 - 122	0	30		
1,1,1,2-Tetrachloroethane	88	89	81 - 128	1	30		
1,1,2,2-Tetrachloroethane	84	85	69 - 129	1	30		
Tetrachloroethene	91	94	76 - 126	2	30		
Toluene	97	95	81 - 117	2	30		
trans-1,2-Dichloroethene	118	118	72 - 131	0	30		
trans-1,3-Dichloropropene	81	80	73 - 128	2	30		
1,1,1-Trichloroethane	95	94	76 - 127	1	30		

Client: Ashland Inc. Job Number: 680-58086-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-170211

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-170211/4	Analysis Batch:	680-170211	Instrument ID:	MSO
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	oq605.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/01/2010 1028			Final Weight/Volume:	5 mL
Date Prepared:	06/01/2010 1028				

LCSD Lab Sample ID:	LCSD 680-170211/5	Analysis Batch:	680-170211	Instrument ID:	MSO
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	oq607.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/01/2010 1057			Final Weight/Volume:	5 mL
Date Prepared:	06/01/2010 1057				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,1,2-Trichloroethane	88	88	75 - 121	0	30		
Trichloroethene	93	93	84 - 115	0	30		
Trichlorofluoromethane	101	98	58 - 149	3	50		
1,2,3-Trichloropropane	91	93	70 - 130	2	30		
Vinyl acetate	135	134	10 - 217	1	30		
Vinyl chloride	101	100	59 - 144	1	50		
Xylenes, Total	93	92	84 - 118	0	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	91	90	75 - 120
Dibromofluoromethane	111	112	75 - 121
Toluene-d8 (Surr)	99	98	75 - 120

Client: Ashland Inc. Job Number: 680-58086-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 680-170211

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-170211/4	Units:	ug/L	LCSD Lab Sample ID:	LCSD 680-170211/5
Client Matrix:	Whrer			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Date Analyzed:	06/01/2010 1028			Date Analyzed:	06/01/2010 1057
Date Prepared:	06/01/2010 1028			Date Prepared:	06/01/2010 1057

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Acetone	100	100	105	109
Benzene	50.0	50.0	47.5	46.9
Bromoform	50.0	50.0	42.0	41.9
Bromomethane	50.0	50.0	51.2	50.7
2-Butanone (MEK)	100	100	100	98.3
Carbon disulfide	50.0	50.0	56.8	55.8
Carbon tetrachloride	50.0	50.0	42.0	41.9
Chlorobenzene	50.0	50.0	46.8	46.7
Chlorodibromomethane	50.0	50.0	41.2	42.1
Chloroethane	50.0	50.0	61.7	57.5
Chloroform	50.0	50.0	53.5	54.0
Chloromethane	50.0	50.0	58.1	58.3
cis-1,3-Dichloropropene	50.0	50.0	43.6	42.5
1,2-Dibromo-3-Chloropropane	50.0	50.0	44.7	45.1
Dibromomethane	50.0	50.0	45.2	45.9
Dichlorobromomethane	50.0	50.0	43.6	43.2
Dichlorodifluoromethane	50.0	50.0	68.9	68.8
1,1-Dichloroethane	50.0	50.0	61.5	61.0
1,2-Dichloroethane	50.0	50.0	40.7	40.0
1,1-Dichloroethene	50.0	50.0	62.3	62.2
1,2-Dichloropropane	50.0	50.0	49.0	48.3
Ethylbenzene	50.0	50.0	46.3	47.1
Ethylene Dibromide	50.0	50.0	44.5	43.9
2-Hexanone	100	100	82.9	86.2
Methylene Chloride	50.0	50.0	63.3 *	63.1 *
4-Methyl-2-pentanone (MIBK)	100	100	82.1	82.2
Styrene	50.0	50.0	46.3	46.0
1,1,1,2-Tetrachloroethane	50.0	50.0	44.1	44.5
1,1,2,2-Tetrachloroethane	50.0	50.0	42.0	42.3
Tetrachloroethene	50.0	50.0	45.7	46.8
Toluene	50.0	50.0	48.3	47.4
trans-1,2-Dichloroethene	50.0	50.0	59.0	58.8
trans-1,3-Dichloropropene	50.0	50.0	40.6	40.0
1,1,1-Trichloroethane	50.0	50.0	47.3	46.9
1,1,2-Trichloroethane	50.0	50.0	43.9	43.8
Trichloroethene	50.0	50.0	46.5	46.7
Trichlorofluoromethane	50.0	50.0	50.5	48.9
1,2,3-Trichloropropane	50.0	50.0	45.3	46.3
Vinyl acetate	100	100	135	134
Vinyl chloride	50.0	50.0	50.4	49.9
Xylenes, Total	150	150	139	138

Client: Ashland Inc. Job Number: 680-58086-1

Method Blank - Batch: 680-170241

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-170241/1
Client Matrix: Whnter
Dilution: 1.0
Date Analyzed: 06/01/2010 1250
Date Prepared: 06/01/2010 1250

Analysis Batch: 680-170241
Prep Batch: N/A
Units: ug/L

Instrument ID: MSO2
Lab File ID: oq614.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0

Client: Ashland Inc. Job Number: 680-58086-1

Method Blank - Batch: 680-170241

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-170241/1
Client Matrix: Whnter
Dilution: 1.0
Date Analyzed: 06/01/2010 1250
Date Prepared: 06/01/2010 1250

Analysis Batch: 680-170241
Prep Batch: N/A
Units: ug/L

Instrument ID: MSO2
Lab File ID: oq614.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	102	75 - 120
Dibromofluoromethane	98	75 - 121
Toluene-d8 (Surr)	105	75 - 120

Client: Ashland Inc. Job Number: 680-58086-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-170241

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 680-170241/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/01/2010 1043
Date Prepared: 06/01/2010 1043

Analysis Batch: 680-170241
Prep Batch: N/A
Units: ug/L

Instrument ID: MSO2
Lab File ID: oq606.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

LCSD Lab Sample ID: LCSD 680-170241/6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/01/2010 1111
Date Prepared: 06/01/2010 1111

Analysis Batch: 680-170241
Prep Batch: N/A
Units: ug/L

Instrument ID: MSO2
Lab File ID: oq608.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	113	112	17 - 175	1	50		
Benzene	98	96	77 - 119	2	30		
Bromoform	88	83	62 - 133	6	30		
Bromomethane	106	104	12 - 184	2	50		
2-Butanone (MEK)	113	111	33 - 157	1	30		
Carbon disulfide	117	115	55 - 131	2	30		
Carbon tetrachloride	90	89	71 - 135	1	30		
Chlorobenzene	101	98	85 - 116	4	30		
Chlorodibromomethane	100	94	75 - 133	6	30		
Chloroethane	110	106	40 - 165	4	50		
Chloroform	110	108	82 - 120	1	30		
Chloromethane	125	122	48 - 142	2	50		
cis-1,3-Dichloropropene	97	94	76 - 126	3	30		
1,2-Dibromo-3-Chloropropane	92	88	49 - 140	5	30		
Dibromomethane	94	90	78 - 119	4	30		
Dichlorobromomethane	92	89	78 - 127	4	30		
Dichlorodifluoromethane	137	137	34 - 154	0	30		
1,1-Dichloroethane	127	126	74 - 127	1	30		
1,2-Dichloroethane	83	81	66 - 132	3	30		
1,1-Dichloroethene	119	120	62 - 141	1	30		
1,2-Dichloropropane	102	98	73 - 124	4	30		
Ethylbenzene	98	94	86 - 116	4	30		
Ethylene Dibromide	90	86	80 - 121	4	30		
2-Hexanone	87	83	34 - 161	4	30		
Methylene Chloride	129	128	70 - 125	1	30	*	*
4-Methyl-2-pentanone (MIBK)	80	77	40 - 151	3	30		
Styrene	97	94	82 - 122	3	30		
1,1,1,2-Tetrachloroethane	94	89	81 - 128	5	30		
1,1,2,2-Tetrachloroethane	86	81	69 - 129	6	30		
Tetrachloroethene	105	101	76 - 126	4	30		
Toluene	98	95	81 - 117	3	30		
trans-1,2-Dichloroethene	124	122	72 - 131	1	30		
trans-1,3-Dichloropropene	90	86	73 - 128	4	30		
1,1,1-Trichloroethane	96	93	76 - 127	3	30		

Client: Ashland Inc. Job Number: 680-58086-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-170241

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-170241/5	Analysis Batch:	680-170241	Instrument ID:	MSO2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	oq606.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/01/2010 1043			Final Weight/Volume:	5 mL
Date Prepared:	06/01/2010 1043				

LCSD Lab Sample ID:	LCSD 680-170241/6	Analysis Batch:	680-170241	Instrument ID:	MSO2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	oq608.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/01/2010 1111			Final Weight/Volume:	5 mL
Date Prepared:	06/01/2010 1111				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,1,2-Trichloroethane	89	86	75 - 121	4	30		
Trichloroethene	97	96	84 - 115	2	30		
Trichlorofluoromethane	98	96	58 - 149	2	50		
1,2,3-Trichloropropane	93	90	70 - 130	4	30		
Vinyl acetate	139	134	10 - 217	4	30		
Vinyl chloride	103	104	59 - 144	1	50		
Xylenes, Total	98	94	84 - 118	4	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	106	103	75 - 120
Dibromofluoromethane	117	116	75 - 121
Toluene-d8 (Surr)	102	100	75 - 120

Client: Ashland Inc. Job Number: 680-58086-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 680-170241

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-170241/5	Units:	ug/L	LCSD Lab Sample ID:	LCSD 680-170241/6
Client Matrix:	Whrer			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Date Analyzed:	06/01/2010 1043			Date Analyzed:	06/01/2010 1111
Date Prepared:	06/01/2010 1043			Date Prepared:	06/01/2010 1111

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Acetone	100	100	113	112
Benzene	50.0	50.0	49.1	48.0
Bromoform	50.0	50.0	44.0	41.5
Bromomethane	50.0	50.0	53.1	51.8
2-Butanone (MEK)	100	100	113	111
Carbon disulfide	50.0	50.0	58.7	57.7
Carbon tetrachloride	50.0	50.0	45.0	44.4
Chlorobenzene	50.0	50.0	50.6	48.9
Chlorodibromomethane	50.0	50.0	49.8	47.1
Chloroethane	50.0	50.0	55.2	52.9
Chloroform	50.0	50.0	54.8	54.1
Chloromethane	50.0	50.0	62.4	61.0
cis-1,3-Dichloropropene	50.0	50.0	48.6	47.1
1,2-Dibromo-3-Chloropropane	50.0	50.0	46.2	44.0
Dibromomethane	50.0	50.0	46.8	44.8
Dichlorobromomethane	50.0	50.0	46.2	44.4
Dichlorodifluoromethane	50.0	50.0	68.7	68.6
1,1-Dichloroethane	50.0	50.0	63.4	62.9
1,2-Dichloroethane	50.0	50.0	41.7	40.6
1,1-Dichloroethene	50.0	50.0	59.4	59.8
1,2-Dichloropropane	50.0	50.0	51.2	49.0
Ethylbenzene	50.0	50.0	49.2	47.1
Ethylene Dibromide	50.0	50.0	45.0	43.2
2-Hexanone	100	100	86.7	83.4
Methylene Chloride	50.0	50.0	64.7 *	64.0 *
4-Methyl-2-pentanone (MIBK)	100	100	79.5	76.9
Styrene	50.0	50.0	48.7	47.1
1,1,1,2-Tetrachloroethane	50.0	50.0	47.0	44.7
1,1,2,2-Tetrachloroethane	50.0	50.0	42.8	40.4
Tetrachloroethene	50.0	50.0	52.3	50.5
Toluene	50.0	50.0	49.1	47.5
trans-1,2-Dichloroethene	50.0	50.0	61.8	61.1
trans-1,3-Dichloropropene	50.0	50.0	45.1	43.2
1,1,1-Trichloroethane	50.0	50.0	47.9	46.3
1,1,2-Trichloroethane	50.0	50.0	44.7	42.9
Trichloroethene	50.0	50.0	48.6	47.8
Trichlorofluoromethane	50.0	50.0	49.0	48.1
1,2,3-Trichloropropane	50.0	50.0	46.5	44.8
Vinyl acetate	100	100	139	134
Vinyl chloride	50.0	50.0	51.5	51.9
Xylenes, Total	150	150	147	142

Method Blank - Batch: 680-170256

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-170256/8
Client Matrix: Whnter
Dilution: 1.0
Date Analyzed: 06/01/2010 1157
Date Prepared: 06/01/2010 1157

Analysis Batch: 680-170256
Prep Batch: N/A
Units: ug/L

Instrument ID: MSP
Lab File ID: pq375.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0

Client: Ashland Inc. Job Number: 680-58086-1

Method Blank - Batch: 680-170256

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-170256/8
Client Matrix: Whnter
Dilution: 1.0
Date Analyzed: 06/01/2010 1157
Date Prepared: 06/01/2010 1157

Analysis Batch: 680-170256
Prep Batch: N/A
Units: ug/L

Instrument ID: MSP
Lab File ID: pq375.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	92	75 - 120
Dibromofluoromethane	103	75 - 121
Toluene-d8 (Surr)	110	75 - 120

Client: Ashland Inc. Job Number: 680-58086-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-170256

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-170256/4	Analysis Batch:	680-170256	Instrument ID:	MSP
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	pq367.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/01/2010 0959			Final Weight/Volume:	5 mL
Date Prepared:	06/01/2010 0959				

LCSD Lab Sample ID:	LCSD 680-170256/6	Analysis Batch:	680-170256	Instrument ID:	MSP
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	pq369.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/01/2010 1029			Final Weight/Volume:	5 mL
Date Prepared:	06/01/2010 1029				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	82	95	17 - 175	14	50		
Benzene	107	108	77 - 119	1	30		
Bromoform	97	102	62 - 133	4	30		
Bromomethane	76	80	12 - 184	5	50		
2-Butanone (MEK)	86	89	33 - 157	3	30		
Carbon disulfide	86	92	55 - 131	6	30		
Carbon tetrachloride	104	104	71 - 135	0	30		
Chlorobenzene	110	113	85 - 116	2	30		
Chlorodibromomethane	106	107	75 - 133	1	30		
Chloroethane	99	97	40 - 165	1	50		
Chloroform	114	116	82 - 120	2	30		
Chloromethane	49	48	48 - 142	1	50		
cis-1,3-Dichloropropene	106	106	76 - 126	0	30		
1,2-Dibromo-3-Chloropropane	80	85	49 - 140	6	30		
Dibromomethane	94	97	78 - 119	4	30		
Dichlorobromomethane	107	108	78 - 127	1	30		
Dichlorodifluoromethane	21	21	34 - 154	3	30	*	*
1,1-Dichloroethane	110	116	74 - 127	5	30		
1,2-Dichloroethane	101	102	66 - 132	1	30		
1,1-Dichloroethene	92	100	62 - 141	8	30		
1,2-Dichloropropane	104	105	73 - 124	1	30		
Ethylbenzene	119	122	86 - 116	3	30	*	*
Ethylene Dibromide	92	93	80 - 121	1	30		
2-Hexanone	89	95	34 - 161	7	30		
Methylene Chloride	103	107	70 - 125	4	30		
4-Methyl-2-pentanone (MIBK)	85	89	40 - 151	4	30		
Styrene	113	115	82 - 122	1	30		
1,1,1,2-Tetrachloroethane	114	117	81 - 128	3	30		
1,1,2,2-Tetrachloroethane	89	94	69 - 129	6	30		
Tetrachloroethene	112	115	76 - 126	3	30		
Toluene	108	112	81 - 117	4	30		
trans-1,2-Dichloroethene	108	111	72 - 131	3	30		
trans-1,3-Dichloropropene	101	101	73 - 128	0	30		
1,1,1-Trichloroethane	106	108	76 - 127	3	30		

Client: Ashland Inc. Job Number: 680-58086-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-170256

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-170256/4	Analysis Batch:	680-170256	Instrument ID:	MSP
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	pq367.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/01/2010 0959			Final Weight/Volume:	5 mL
Date Prepared:	06/01/2010 0959				

LCSD Lab Sample ID:	LCSD 680-170256/6	Analysis Batch:	680-170256	Instrument ID:	MSP
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	pq369.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/01/2010 1029			Final Weight/Volume:	5 mL
Date Prepared:	06/01/2010 1029				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,1,2-Trichloroethane	93	95	75 - 121	2	30		
Trichloroethene	110	113	84 - 115	2	30		
Trichlorofluoromethane	100	104	58 - 149	4	50		
1,2,3-Trichloropropane	87	93	70 - 130	7	30		
Vinyl acetate	133	138	10 - 217	4	30		
Vinyl chloride	65	65	59 - 144	1	50		
Xylenes, Total	108	112	84 - 118	3	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	106	106	75 - 120
Dibromofluoromethane	105	110	75 - 121
Toluene-d8 (Surr)	110	112	75 - 120

Client: Ashland Inc. Job Number: 680-58086-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 680-170256

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-170256/4	Units:	ug/L	LCSD Lab Sample ID:	LCSD 680-170256/6
Client Matrix:	Whrer			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Date Analyzed:	06/01/2010 0959			Date Analyzed:	06/01/2010 1029
Date Prepared:	06/01/2010 0959			Date Prepared:	06/01/2010 1029

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual		LCSD Result/Qual	
Acetone	100	100	82.2		95.0	
Benzene	50.0	50.0	53.3		54.1	
Bromoform	50.0	50.0	48.7		50.9	
Bromomethane	50.0	50.0	37.9		39.9	
2-Butanone (MEK)	100	100	86.4		89.0	
Carbon disulfide	50.0	50.0	43.2		46.1	
Carbon tetrachloride	50.0	50.0	51.9		52.1	
Chlorobenzene	50.0	50.0	54.9		56.3	
Chlorodibromomethane	50.0	50.0	52.8		53.5	
Chloroethane	50.0	50.0	49.3		48.6	
Chloroform	50.0	50.0	56.9		58.0	
Chloromethane	50.0	50.0	24.4		24.2	
cis-1,3-Dichloropropene	50.0	50.0	53.0		53.1	
1,2-Dibromo-3-Chloropropane	50.0	50.0	39.9		42.5	
Dibromomethane	50.0	50.0	47.0		48.7	
Dichlorobromomethane	50.0	50.0	53.6		54.1	
Dichlorodifluoromethane	50.0	50.0	10.7	*	10.5	*
1,1-Dichloroethane	50.0	50.0	55.1		57.9	
1,2-Dichloroethane	50.0	50.0	50.6		51.1	
1,1-Dichloroethene	50.0	50.0	46.2		49.9	
1,2-Dichloropropane	50.0	50.0	52.0		52.4	
Ethylbenzene	50.0	50.0	59.3	*	60.8	*
Ethylene Dibromide	50.0	50.0	45.9		46.5	
2-Hexanone	100	100	88.5		94.9	
Methylene Chloride	50.0	50.0	51.3		53.5	
4-Methyl-2-pentanone (MIBK)	100	100	85.4		88.6	
Styrene	50.0	50.0	56.5		57.3	
1,1,1,2-Tetrachloroethane	50.0	50.0	57.0		58.5	
1,1,2,2-Tetrachloroethane	50.0	50.0	44.4		47.2	
Tetrachloroethene	50.0	50.0	55.8		57.5	
Toluene	50.0	50.0	53.9		56.1	
trans-1,2-Dichloroethene	50.0	50.0	53.8		55.7	
trans-1,3-Dichloropropene	50.0	50.0	50.5		50.5	
1,1,1-Trichloroethane	50.0	50.0	52.8		54.2	
1,1,2-Trichloroethane	50.0	50.0	46.5		47.4	
Trichloroethene	50.0	50.0	55.0		56.4	
Trichlorofluoromethane	50.0	50.0	50.1		52.2	
1,2,3-Trichloropropane	50.0	50.0	43.5		46.5	
Vinyl acetate	100	100	133		138	
Vinyl chloride	50.0	50.0	32.3		32.6	
Xylenes, Total	150	150	162		167	

Client: Ashland Inc. Job Number: 680-58086-1

Method Blank - Batch: 680-170350

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-170350/7
Client Matrix: Whnter
Dilution: 1.0
Date Analyzed: 06/02/2010 1123
Date Prepared: 06/02/2010 1123

Analysis Batch: 680-170350
Prep Batch: N/A
Units: ug/L

Instrument ID: MSO
Lab File ID: oq633.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0

Client: Ashland Inc. Job Number: 680-58086-1

Method Blank - Batch: 680-170350

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-170350/7
Client Matrix: Whnter
Dilution: 1.0
Date Analyzed: 06/02/2010 1123
Date Prepared: 06/02/2010 1123

Analysis Batch: 680-170350
Prep Batch: N/A
Units: ug/L

Instrument ID: MSO
Lab File ID: oq633.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	110	75 - 120
Dibromofluoromethane	104	75 - 121
Toluene-d8 (Surr)	100	75 - 120

Client: Ashland Inc. Job Number: 680-58086-1

Lab Control Sample - Batch: 680-170350

Method: 8260B
Preparation: 5030B

Lab Sample ID: LCS 680-170350/4
Client Matrix: Whnter
Dilution: 1.0
Date Analyzed: 06/02/2010 0919
Date Prepared: 06/02/2010 0919

Analysis Batch: 680-170350
Prep Batch: N/A
Units: ug/L

Instrument ID: MSO
Lab File ID: oq625.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acetone	100	115	115	17 - 175	
Benzene	50.0	50.2	100	77 - 119	
Bromoform	50.0	34.5	69	62 - 133	
Bromomethane	50.0	56.8	114	12 - 184	
2-Butanone (MEK)	100	100	100	33 - 157	
Carbon disulfide	50.0	55.0	110	55 - 131	
Carbon tetrachloride	50.0	42.3	85	71 - 135	
Chlorobenzene	50.0	45.9	92	85 - 116	
Chlorodibromomethane	50.0	47.9	96	75 - 133	
Chloroethane	50.0	64.9	130	40 - 165	
Chloroform	50.0	53.5	107	82 - 120	
Chloromethane	50.0	55.7	111	48 - 142	
cis-1,3-Dichloropropene	50.0	44.9	90	76 - 126	
1,2-Dibromo-3-Chloropropane	50.0	51.1	102	49 - 140	
Dibromomethane	50.0	48.5	97	78 - 119	
Dichlorobromomethane	50.0	45.7	91	78 - 127	
Dichlorodifluoromethane	50.0	66.2	132	34 - 154	
1,1-Dichloroethane	50.0	60.3	121	74 - 127	
1,2-Dichloroethane	50.0	43.6	87	66 - 132	
1,1-Dichloroethene	50.0	60.9	122	62 - 141	
1,2-Dichloropropane	50.0	44.9	90	73 - 124	
Ethylbenzene	50.0	48.4	97	86 - 116	
Ethylene Dibromide	50.0	43.7	87	80 - 121	
2-Hexanone	100	102	102	34 - 161	
Methylene Chloride	50.0	62.2	124	70 - 125	
4-Methyl-2-pentanone (MIBK)	100	86.4	86	40 - 151	
Styrene	50.0	47.6	95	82 - 122	
1,1,1,2-Tetrachloroethane	50.0	43.9	88	81 - 128	
1,1,2,2-Tetrachloroethane	50.0	46.7	93	69 - 129	
Tetrachloroethene	50.0	54.7	109	76 - 126	
Toluene	50.0	45.6	91	81 - 117	
trans-1,2-Dichloroethene	50.0	57.8	116	72 - 131	
trans-1,3-Dichloropropene	50.0	40.7	81	73 - 128	
1,1,1-Trichloroethane	50.0	48.8	98	76 - 127	
1,1,2-Trichloroethane	50.0	47.7	95	75 - 121	
Trichloroethene	50.0	47.9	96	84 - 115	
Trichlorofluoromethane	50.0	51.4	103	58 - 149	
1,2,3-Trichloropropane	50.0	49.4	99	70 - 130	
Vinyl acetate	100	133	133	10 - 217	
Vinyl chloride	50.0	49.5	99	59 - 144	
Xylenes, Total	150	142	95	84 - 118	

Surrogate	% Rec	Acceptance Limits

Client: Ashland Inc. Job Number: 680-58086-1

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	95	75 - 120
Dibromofluoromethane	112	75 - 121
Toluene-d8 (Surr)	95	75 - 120

Client: Ashland Inc. Job Number: 680-58086-1

Method Blank - Batch: 680-170360

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-170360/7
Client Matrix: Whnter
Dilution: 1.0
Date Analyzed: 06/02/2010 1221
Date Prepared: 06/02/2010 1221

Analysis Batch: 680-170360
Prep Batch: N/A
Units: ug/L

Instrument ID: MSO2
Lab File ID: oq636.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0

Client: Ashland Inc. Job Number: 680-58086-1

Method Blank - Batch: 680-170360

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-170360/7
Client Matrix: Whnter
Dilution: 1.0
Date Analyzed: 06/02/2010 1221
Date Prepared: 06/02/2010 1221

Analysis Batch: 680-170360
Prep Batch: N/A
Units: ug/L

Instrument ID: MSO2
Lab File ID: oq636.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	100	75 - 120
Dibromofluoromethane	109	75 - 121
Toluene-d8 (Surr)	102	75 - 120

Client: Ashland Inc. Job Number: 680-58086-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-170360

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 680-170360/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/02/2010 0933
Date Prepared: 06/02/2010 0933

Analysis Batch: 680-170360
Prep Batch: N/A
Units: ug/L

Instrument ID: MSO2
Lab File ID: oq626.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

LCSD Lab Sample ID: LCSD 680-170360/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/02/2010 1012
Date Prepared: 06/02/2010 1012

Analysis Batch: 680-170360
Prep Batch: N/A
Units: ug/L

Instrument ID: MSO2
Lab File ID: oq628.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	113	114	17 - 175	1	50		
Benzene	98	97	77 - 119	1	30		
Bromoform	80	65	62 - 133	21	30		
Bromomethane	105	104	12 - 184	1	50		
2-Butanone (MEK)	117	111	33 - 157	5	30		
Carbon disulfide	117	117	55 - 131	0	30		
Carbon tetrachloride	89	87	71 - 135	2	30		
Chlorobenzene	98	104	85 - 116	6	30		
Chlorodibromomethane	91	95	75 - 133	4	30		
Chloroethane	115	108	40 - 165	6	50		
Chloroform	110	110	82 - 120	0	30		
Chloromethane	123	121	48 - 142	2	50		
cis-1,3-Dichloropropene	95	95	76 - 126	0	30		
1,2-Dibromo-3-Chloropropane	75	78	49 - 140	3	30		
Dibromomethane	94	93	78 - 119	0	30		
Dichlorobromomethane	91	90	78 - 127	1	30		
Dichlorodifluoromethane	141	131	34 - 154	8	30		
1,1-Dichloroethane	127	126	74 - 127	1	30		
1,2-Dichloroethane	86	85	66 - 132	1	30		
1,1-Dichloroethene	120	118	62 - 141	2	30		
1,2-Dichloropropane	103	103	73 - 124	1	30		
Ethylbenzene	95	100	86 - 116	6	30		
Ethylene Dibromide	90	91	80 - 121	1	30		
2-Hexanone	84	89	34 - 161	5	30		
Methylene Chloride	130	130	70 - 125	0	30	*	*
4-Methyl-2-pentanone (MIBK)	80	78	40 - 151	2	30		
Styrene	94	101	82 - 122	7	30		
1,1,1,2-Tetrachloroethane	87	91	81 - 128	5	30		
1,1,2,2-Tetrachloroethane	78	80	69 - 129	2	30		
Tetrachloroethene	100	108	76 - 126	8	30		
Toluene	98	99	81 - 117	1	30		
trans-1,2-Dichloroethene	125	120	72 - 131	4	30		
trans-1,3-Dichloropropene	86	85	73 - 128	2	30		
1,1,1-Trichloroethane	94	94	76 - 127	1	30		

Client: Ashland Inc. Job Number: 680-58086-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-170360

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-170360/4	Analysis Batch:	680-170360	Instrument ID:	MSO2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	oq626.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/02/2010 0933			Final Weight/Volume:	5 mL
Date Prepared:	06/02/2010 0933				

LCSD Lab Sample ID:	LCSD 680-170360/5	Analysis Batch:	680-170360	Instrument ID:	MSO2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	oq628.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/02/2010 1012			Final Weight/Volume:	5 mL
Date Prepared:	06/02/2010 1012				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,1,2-Trichloroethane	90	89	75 - 121	1	30		
Trichloroethene	97	96	84 - 115	1	30		
Trichlorofluoromethane	104	102	58 - 149	3	50		
1,2,3-Trichloropropane	84	84	70 - 130	0	30		
Vinyl acetate	136	128	10 - 217	7	30		
Vinyl chloride	105	103	59 - 144	2	50		
Xylenes, Total	95	100	84 - 118	6	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	93	99	75 - 120
Dibromofluoromethane	120	118	75 - 121
Toluene-d8 (Surr)	103	104	75 - 120

Client: Ashland Inc. Job Number: 680-58086-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 680-170360

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-170360/4	Units:	ug/L	LCSD Lab Sample ID:	LCSD 680-170360/5
Client Matrix:	Whrer			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Date Analyzed:	06/02/2010 0933			Date Analyzed:	06/02/2010 1012
Date Prepared:	06/02/2010 0933			Date Prepared:	06/02/2010 1012

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Acetone	100	100	113	114
Benzene	50.0	50.0	48.9	48.5
Bromoform	50.0	50.0	40.1	32.3
Bromomethane	50.0	50.0	52.6	51.9
2-Butanone (MEK)	100	100	117	111
Carbon disulfide	50.0	50.0	58.7	58.5
Carbon tetrachloride	50.0	50.0	44.3	43.6
Chlorobenzene	50.0	50.0	48.9	52.0
Chlorodibromomethane	50.0	50.0	45.6	47.7
Chloroethane	50.0	50.0	57.3	54.1
Chloroform	50.0	50.0	55.0	54.9
Chloromethane	50.0	50.0	61.5	60.5
cis-1,3-Dichloropropene	50.0	50.0	47.5	47.3
1,2-Dibromo-3-Chloropropane	50.0	50.0	37.6	38.8
Dibromomethane	50.0	50.0	46.8	46.7
Dichlorobromomethane	50.0	50.0	45.7	45.2
Dichlorodifluoromethane	50.0	50.0	70.6	65.3
1,1-Dichloroethane	50.0	50.0	63.6	62.8
1,2-Dichloroethane	50.0	50.0	42.9	42.7
1,1-Dichloroethene	50.0	50.0	60.0	58.8
1,2-Dichloropropane	50.0	50.0	51.7	51.4
Ethylbenzene	50.0	50.0	47.5	50.2
Ethylene Dibromide	50.0	50.0	44.9	45.6
2-Hexanone	100	100	84.1	88.7
Methylene Chloride	50.0	50.0	64.9 *	64.8 *
4-Methyl-2-pentanone (MIBK)	100	100	79.8	78.4
Styrene	50.0	50.0	47.0	50.6
1,1,1,2-Tetrachloroethane	50.0	50.0	43.5	45.7
1,1,2,2-Tetrachloroethane	50.0	50.0	38.9	39.9
Tetrachloroethene	50.0	50.0	49.9	54.1
Toluene	50.0	50.0	49.0	49.5
trans-1,2-Dichloroethene	50.0	50.0	62.3	60.0
trans-1,3-Dichloropropene	50.0	50.0	43.2	42.3
1,1,1-Trichloroethane	50.0	50.0	47.1	46.8
1,1,2-Trichloroethane	50.0	50.0	45.2	44.7
Trichloroethene	50.0	50.0	48.6	48.1
Trichlorofluoromethane	50.0	50.0	52.2	50.9
1,2,3-Trichloropropane	50.0	50.0	42.1	42.1
Vinyl acetate	100	100	136	128
Vinyl chloride	50.0	50.0	52.3	51.4
Xylenes, Total	150	150	142	150

Method Blank - Batch: 680-170469

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-170469/7
Client Matrix: Whnter
Dilution: 1.0
Date Analyzed: 06/03/2010 1053
Date Prepared: 06/03/2010 1053

Analysis Batch: 680-170469
Prep Batch: N/A
Units: ug/L

Instrument ID: MSO
Lab File ID: oq667.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0

Client: Ashland Inc. Job Number: 680-58086-1

Method Blank - Batch: 680-170469

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-170469/7
Client Matrix: Whnter
Dilution: 1.0
Date Analyzed: 06/03/2010 1053
Date Prepared: 06/03/2010 1053

Analysis Batch: 680-170469
Prep Batch: N/A
Units: ug/L

Instrument ID: MSO
Lab File ID: oq667.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	101	75 - 120
Dibromofluoromethane	107	75 - 121
Toluene-d8 (Surr)	107	75 - 120

Client: Ashland Inc. Job Number: 680-58086-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-170469

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-170469/4	Analysis Batch:	680-170469	Instrument ID:	MSO
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	oq659.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/03/2010 0843			Final Weight/Volume:	5 mL
Date Prepared:	06/03/2010 0843				

LCSD Lab Sample ID:	LCSD 680-170469/5	Analysis Batch:	680-170469	Instrument ID:	MSO
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	oq661.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/03/2010 0927			Final Weight/Volume:	5 mL
Date Prepared:	06/03/2010 0927				

	% Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	99	109	17 - 175	9	50		
Benzene	99	99	77 - 119	0	30		
Bromoform	129	131	62 - 133	2	30		
Bromomethane	98	99	12 - 184	1	50		
2-Butanone (MEK)	101	102	33 - 157	1	30		
Carbon disulfide	99	99	55 - 131	0	30		
Carbon tetrachloride	101	102	71 - 135	0	30		
Chlorobenzene	92	91	85 - 116	1	30		
Chlorodibromomethane	106	107	75 - 133	1	30		
Chloroethane	97	107	40 - 165	10	50		
Chloroform	112	112	82 - 120	0	30		
Chloromethane	99	94	48 - 142	5	50		
cis-1,3-Dichloropropene	93	95	76 - 126	2	30		
1,2-Dibromo-3-Chloropropane	104	107	49 - 140	3	30		
Dibromomethane	98	99	78 - 119	1	30		
Dichlorobromomethane	103	106	78 - 127	2	30		
Dichlorodifluoromethane	101	96	34 - 154	5	30		
1,1-Dichloroethane	109	109	74 - 127	1	30		
1,2-Dichloroethane	94	97	66 - 132	3	30		
1,1-Dichloroethene	96	95	62 - 141	1	30		
1,2-Dichloropropane	98	100	73 - 124	2	30		
Ethylbenzene	105	104	86 - 116	0	30		
Ethylene Dibromide	95	97	80 - 121	2	30		
2-Hexanone	104	107	34 - 161	2	30		
Methylene Chloride	99	99	70 - 125	0	30		
4-Methyl-2-pentanone (MIBK)	101	102	40 - 151	1	30		
Styrene	103	103	82 - 122	0	30		
1,1,1,2-Tetrachloroethane	106	105	81 - 128	1	30		
1,1,2,2-Tetrachloroethane	109	109	69 - 129	0	30		
Tetrachloroethene	104	103	76 - 126	1	30		
Toluene	105	106	81 - 117	1	30		
trans-1,2-Dichloroethene	92	93	72 - 131	0	30		
trans-1,3-Dichloropropene	106	107	73 - 128	1	30		
1,1,1-Trichloroethane	103	103	76 - 127	1	30		

Client: Ashland Inc. Job Number: 680-58086-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-170469

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-170469/4	Analysis Batch:	680-170469	Instrument ID:	MSO
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	oq659.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/03/2010 0843			Final Weight/Volume:	5 mL
Date Prepared:	06/03/2010 0843				

LCSD Lab Sample ID:	LCSD 680-170469/5	Analysis Batch:	680-170469	Instrument ID:	MSO
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	oq661.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/03/2010 0927			Final Weight/Volume:	5 mL
Date Prepared:	06/03/2010 0927				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,1,2-Trichloroethane	97	96	75 - 121	0	30		
Trichloroethene	102	103	84 - 115	1	30		
Trichlorofluoromethane	103	102	58 - 149	1	50		
1,2,3-Trichloropropane	110	109	70 - 130	1	30		
Vinyl acetate	106	105	10 - 217	1	30		
Vinyl chloride	102	102	59 - 144	1	50		
Xylenes, Total	104	103	84 - 118	1	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	109	110	75 - 120
Dibromofluoromethane	112	112	75 - 121
Toluene-d8 (Surr)	107	106	75 - 120

Client: Ashland Inc. Job Number: 680-58086-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 680-170469

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-170469/4	Units:	ug/L	LCSD Lab Sample ID:	LCSD 680-170469/5
Client Matrix:	Whrer			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Date Analyzed:	06/03/2010 0843			Date Analyzed:	06/03/2010 0927
Date Prepared:	06/03/2010 0843			Date Prepared:	06/03/2010 0927

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Acetone	100	100	99.3	109
Benzene	50.0	50.0	49.5	49.4
Bromoform	50.0	50.0	64.3	65.4
Bromomethane	50.0	50.0	48.9	49.3
2-Butanone (MEK)	100	100	101	102
Carbon disulfide	50.0	50.0	49.3	49.5
Carbon tetrachloride	50.0	50.0	50.7	50.8
Chlorobenzene	50.0	50.0	45.9	45.6
Chlorodibromomethane	50.0	50.0	52.9	53.6
Chloroethane	50.0	50.0	48.7	53.6
Chloroform	50.0	50.0	55.9	55.8
Chloromethane	50.0	50.0	49.3	46.8
cis-1,3-Dichloropropene	50.0	50.0	46.6	47.4
1,2-Dibromo-3-Chloropropane	50.0	50.0	51.8	53.4
Dibromomethane	50.0	50.0	48.8	49.3
Dichlorobromomethane	50.0	50.0	51.6	52.9
Dichlorodifluoromethane	50.0	50.0	50.7	48.2
1,1-Dichloroethane	50.0	50.0	54.7	54.3
1,2-Dichloroethane	50.0	50.0	47.0	48.4
1,1-Dichloroethene	50.0	50.0	47.8	47.5
1,2-Dichloropropane	50.0	50.0	49.0	49.9
Ethylbenzene	50.0	50.0	52.3	52.1
Ethylene Dibromide	50.0	50.0	47.5	48.7
2-Hexanone	100	100	104	107
Methylene Chloride	50.0	50.0	49.7	49.5
4-Methyl-2-pentanone (MIBK)	100	100	101	102
Styrene	50.0	50.0	51.6	51.6
1,1,1,2-Tetrachloroethane	50.0	50.0	53.1	52.7
1,1,2,2-Tetrachloroethane	50.0	50.0	54.7	54.7
Tetrachloroethene	50.0	50.0	52.2	51.5
Toluene	50.0	50.0	52.5	52.9
trans-1,2-Dichloroethene	50.0	50.0	46.2	46.4
trans-1,3-Dichloropropene	50.0	50.0	53.0	53.5
1,1,1-Trichloroethane	50.0	50.0	51.5	51.7
1,1,2-Trichloroethane	50.0	50.0	48.4	48.2
Trichloroethene	50.0	50.0	51.1	51.7
Trichlorofluoromethane	50.0	50.0	51.7	51.0
1,2,3-Trichloropropane	50.0	50.0	54.9	54.5
Vinyl acetate	100	100	106	105
Vinyl chloride	50.0	50.0	50.9	51.2
Xylenes, Total	150	150	155	154

Client: Ashland Inc. Job Number: 680-58086-1

Method Blank - Batch: 680-170229

Method: 8081A_8082
Preparation: 3520C

Lab Sample ID: MB 680-170229/20-A
Client Matrix: Whnter
Dilution: 1.0
Date Analyzed: 06/03/2010 2028
Date Prepared: 06/01/2010 1533

Analysis Batch: 680-170563
Prep Batch: 680-170229
Units: ug/L

Instrument ID: SGJ
Lab File ID: jf03023.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
Toxaphene, Total	5.0	U	0.50	5.0

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	71	14 - 115
Tetrachloro-m-xylene	74	35 - 120

Lab Control Sample - Batch: 680-170229

Method: 8081A_8082
Preparation: 3520C

Lab Sample ID: LCS 680-170229/27-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/03/2010 2137
Date Prepared: 06/01/2010 1533

Analysis Batch: 680-170563
Prep Batch: 680-170229
Units: ug/L

Instrument ID: SGJ
Lab File ID: jf03026.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Toxaphene, Total	10.0	9.25	92	30 - 120	

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	68	14 - 115
Tetrachloro-m-xylene	71	35 - 120

Client: Ashland Inc. Job Number: 680-58086-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-170229

Method: 8081A_8082
Preparation: 3520C

MS Lab Sample ID:	680-58086-2	Analysis Batch: 680-170563	Instrument ID: SGJ
Client Matrix:	Water	Prep Batch: 680-170229	Lab File ID: jf03037.d
Dilution:	1.0		Initial Weight/Volume: 500 mL
Date Analyzed:	06/04/2010 0150		Final Weight/Volume: 5 mL
Date Prepared:	06/01/2010 1533		Injection Volume: 2 uL
			Column ID: PRIMARY

MSD Lab Sample ID:	680-58086-2	Analysis Batch: 680-170563	Instrument ID: SGJ
Client Matrix:	Water	Prep Batch: 680-170229	Lab File ID: jf03038.d
Dilution:	1.0		Initial Weight/Volume: 500 mL
Date Analyzed:	06/04/2010 0213		Final Weight/Volume: 5 mL
Date Prepared:	06/01/2010 1533		Injection Volume: 2 uL
			Column ID: PRIMARY

	% Rec.					
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Toxaphene, Total	88	93	30 - 120	5	40	p	p

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
DCB Decachlorobiphenyl	40	34	14 - 115
Tetrachloro-m-xylene	72	76	35 - 120

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 680-170229

Method: 8081A_8082
Preparation: 3520C

MS Lab Sample ID:	680-58086-2	Units: ug/L	MSD Lab Sample ID: 680-58086-2
Client Matrix:	Water		Client Matrix: Water
Dilution:	1.0		Dilution: 1.0
Date Analyzed:	06/04/2010 0150		Date Analyzed: 06/04/2010 0213
Date Prepared:	06/01/2010 1533		Date Prepared: 06/01/2010 1533

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Toxaphene, Total	5.0	U	10.0	10.0	8.80	p	9.29	p

Method Blank - Batch: 680-170229

Method: 8081B/8082A
Preparation: 3520C

Lab Sample ID: MB 680-170229/20-A
Client Matrix: Whnter
Dilution: 1.0
Date Analyzed: 06/03/2010 2028
Date Prepared: 06/01/2010 1533

Analysis Batch: 680-170565
Prep Batch: 680-170229
Units: ug/L

Instrument ID: SGJ
Lab File ID: jf03023.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
Toxaphene, Technical	5.0	U	0.50	5.0

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	71	14 - 115
Tetrachloro-m-xylene	74	35 - 120

Lab Control Sample - Batch: 680-170229

Method: 8081B/8082A
Preparation: 3520C

Lab Sample ID: LCS 680-170229/27-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/03/2010 2137
Date Prepared: 06/01/2010 1533

Analysis Batch: 680-170565
Prep Batch: 680-170229
Units: ug/L

Instrument ID: SGJ
Lab File ID: jf03026.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Toxaphene, Technical	10.0	7.70	77	30 - 120	

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	68	14 - 115
Tetrachloro-m-xylene	71	35 - 120

Client: Ashland Inc. Job Number: 680-58086-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-170229

Method: 8081B/8082A
Preparation: 3520C

MS Lab Sample ID:	680-58086-2	Analysis Batch: 680-170565	Instrument ID: SGJ
Client Matrix:	Water	Prep Batch: 680-170229	Lab File ID: jf03037.d
Dilution:	1.0		Initial Weight/Volume: 500 mL
Date Analyzed:	06/04/2010 0150		Final Weight/Volume: 5 mL
Date Prepared:	06/01/2010 1533		Injection Volume: 2 uL
			Column ID: PRIMARY

MSD Lab Sample ID:	680-58086-2	Analysis Batch: 680-170565	Instrument ID: SGJ
Client Matrix:	Water	Prep Batch: 680-170229	Lab File ID: jf03038.d
Dilution:	1.0		Initial Weight/Volume: 500 mL
Date Analyzed:	06/04/2010 0213		Final Weight/Volume: 5 mL
Date Prepared:	06/01/2010 1533		Injection Volume: 2 uL
			Column ID: PRIMARY

	% Rec.					
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Toxaphene, Technical	73	77	30 - 120	5	40		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
DCB Decachlorobiphenyl	40	34	14 - 115
Tetrachloro-m-xylene	72	76	35 - 120

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 680-170229

Method: 8081B/8082A
Preparation: 3520C

MS Lab Sample ID:	680-58086-2	Units: ug/L	MSD Lab Sample ID: 680-58086-2
Client Matrix:	Water		Client Matrix: Water
Dilution:	1.0		Dilution: 1.0
Date Analyzed:	06/04/2010 0150		Date Analyzed: 06/04/2010 0213
Date Prepared:	06/01/2010 1533		Date Prepared: 06/01/2010 1533

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Toxaphene, Technical	5.0	U	10.0	10.0	7.30	7.65

Client: Ashland Inc. Job Number: 680-58086-1

Method Blank - Batch: 680-170586

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID: MB 680-170586/16-A
Client Matrix: Whnrer
Dilution: 1.0
Date Analyzed: 06/08/2010 0455
Date Prepared: 06/04/2010 1143

Analysis Batch: 680-170841
Prep Batch: 680-170586
Units: ug/L

Instrument ID: ICPD
Lab File ID: 060710.chr
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Antimony	20	U	5.2	20
Arsenic	20	U	10	20
Barium	10	U	2.0	10
Beryllium	4.0	U	0.10	4.0
Cadmium	5.0	U	2.0	5.0
Chromium	10	U	2.0	10
Cobalt	10	U	1.0	10
Copper	20	U	5.0	20
Lead	10	U	3.4	10
Nickel	40	U	4.0	40
Selenium	20	U	6.4	20
Silver	10	U	0.97	10
Thallium	25	U	8.7	25
Tin	50	U	5.4	50
Vanadium	10	U	3.0	10
Zinc	20	U	6.3	20

Client: Ashland Inc. Job Number: 680-58086-1

Lab Control Sample - Batch: 680-170586

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID: LCS 680-170586/17-A
Client Matrix: Whnter
Dilution: 1.0
Date Analyzed: 06/08/2010 0500
Date Prepared: 06/04/2010 1143

Analysis Batch: 680-170841
Prep Batch: 680-170586
Units: ug/L

Instrument ID: ICPD
Lab File ID: 060710.chr
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Antimony	500	515	103	75 - 125	
Arsenic	2000	2060	103	75 - 125	
Barium	2000	2060	103	75 - 125	
Beryllium	50.0	49.9	100	75 - 125	
Cadmium	50.0	49.8	100	75 - 125	
Chromium	200	205	102	75 - 125	
Cobalt	500	513	103	75 - 125	
Copper	250	261	104	75 - 125	
Lead	500	517	103	75 - 125	
Nickel	500	508	102	75 - 125	
Selenium	2000	2060	103	75 - 125	
Silver	50.0	50.9	102	75 - 125	
Thallium	2000	2070	103	75 - 125	
Tin	1000	988	99	75 - 125	
Vanadium	500	515	103	75 - 125	
Zinc	500	521	104	75 - 125	

Client: Ashland Inc. Job Number: 680-58086-1

Method Blank - Batch: 680-170770

Method: 7470A
Preparation: 7470A

Lab Sample ID:	MB 680-170770/23-A	Analysis Batch:	680-171106	Instrument ID:	LEEMAN1
Client Matrix:	Water	Prep Batch:	680-170770	Lab File ID:	b060810.chr
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	50 mL
Date Analyzed:	06/09/2010 1825			Final Weight/Volume:	50 mL
Date Prepared:	06/07/2010 1632				

Analyte	Result	Qual	MDL	RL
Mercury	0.20	U	0.091	0.20

Lab Control Sample - Batch: 680-170770

Method: 7470A
Preparation: 7470A

Lab Sample ID:	LCS 680-170770/24-A	Analysis Batch:	680-171106	Instrument ID:	LEEMAN1
Client Matrix:	Water	Prep Batch:	680-170770	Lab File ID:	b060810.chr
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	50 mL
Date Analyzed:	06/09/2010 1828			Final Weight/Volume:	50 mL
Date Prepared:	06/07/2010 1632				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	2.50	2.55	102	80 - 120	

Client: Ashland Inc. Job Number: 680-58086-1

Laboratory Chronicle

Lab ID: 680-58086-1 **Client ID: MW-37D (52510)**

Sample Date/Time: 05/25/2010 17:50 Received Date/Time: 05/28/2010 09:18

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58086-A-1		680-170241		06/01/2010 14:44	1	TAL SAV	JW
A:8260B	680-58086-A-1		680-170241		06/01/2010 14:44	1	TAL SAV	JW

Lab ID: 680-58086-2 **Client ID: MW-37S (52510)**

Sample Date/Time: 05/25/2010 16:50 Received Date/Time: 05/28/2010 09:18

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58086-D-2		680-170241		06/01/2010 15:13	1	TAL SAV	JW
A:8260B	680-58086-D-2		680-170241		06/01/2010 15:13	1	TAL SAV	JW
P:3520C	680-58086-B-2-A		680-170563	680-170229	06/01/2010 15:33	1	TAL SAV	RBS
A:8081A_8082	680-58086-B-2-A		680-170563	680-170229	06/03/2010 22:00	1	TAL SAV	JK
P:3520C	680-58086-B-2-A		680-170565	680-170229	06/01/2010 15:33	1	TAL SAV	RBS
A:8081B/8082A	680-58086-B-2-A		680-170565	680-170229	06/03/2010 22:00	1	TAL SAV	JK
P:3005A	680-58086-C-2-A		680-170841	680-170586	06/04/2010 11:43	1	TAL SAV	RA
A:6010B	680-58086-C-2-A		680-170841	680-170586	06/08/2010 05:25	1	TAL SAV	BR
P:7470A	680-58086-A-2-C		680-171106	680-170770	06/07/2010 16:32	1	TAL SAV	DH
A:7470A	680-58086-A-2-C		680-171106	680-170770	06/09/2010 19:16	1	TAL SAV	CE

Lab ID: 680-58086-2 MS **Client ID: MW-37S (52510)**

Sample Date/Time: 05/25/2010 16:50 Received Date/Time: 05/28/2010 09:18

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3520C	680-58086-A-2-A MS		680-170563	680-170229	06/01/2010 15:33	1	TAL SAV	RBS
A:8081A_8082	680-58086-A-2-A MS		680-170563	680-170229	06/04/2010 01:50	1	TAL SAV	JK
P:3520C	680-58086-A-2-A MS		680-170565	680-170229	06/01/2010 15:33	1	TAL SAV	RBS
A:8081B/8082A	680-58086-A-2-A MS		680-170565	680-170229	06/04/2010 01:50	1	TAL SAV	JK

Lab ID: 680-58086-2 MSD **Client ID: MW-37S (52510)**

Sample Date/Time: 05/25/2010 16:50 Received Date/Time: 05/28/2010 09:18

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3520C	680-58086-A-2-B MSD		680-170563	680-170229	06/01/2010 15:33	1	TAL SAV	RBS
A:8081A_8082	680-58086-A-2-B MSD		680-170563	680-170229	06/04/2010 02:13	1	TAL SAV	JK
P:3520C	680-58086-A-2-B MSD		680-170565	680-170229	06/01/2010 15:33	1	TAL SAV	RBS
A:8081B/8082A	680-58086-A-2-B MSD		680-170565	680-170229	06/04/2010 02:13	1	TAL SAV	JK

Client: Ashland Inc. Job Number: 680-58086-1

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Lab ID: 680-58086-3 **Client ID: MW-37I (52510)**

Sample Date/Time: 05/25/2010 18:40 Received Date/Time: 05/28/2010 09:18

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58086-D-3		680-170241		06/01/2010 16:39	1	TAL SAV	JW
A:8260B	680-58086-D-3		680-170241		06/01/2010 16:39	1	TAL SAV	JW
P:3520C	680-58086-A-3-A		680-170563	680-170229	06/01/2010 15:33	1	TAL SAV	RBS
A:8081A_8082	680-58086-A-3-A		680-170563	680-170229	06/03/2010 22:23	1	TAL SAV	JK
P:3520C	680-58086-A-3-A		680-170565	680-170229	06/01/2010 15:33	1	TAL SAV	RBS
A:8081B/8082A	680-58086-A-3-A		680-170565	680-170229	06/03/2010 22:23	1	TAL SAV	JK
P:3005A	680-58086-C-3-A		680-170841	680-170586	06/04/2010 11:43	1	TAL SAV	RA
A:6010B	680-58086-C-3-A		680-170841	680-170586	06/08/2010 05:30	1	TAL SAV	BR
P:7470A	680-58086-A-3-B		680-171106	680-170770	06/07/2010 16:32	1	TAL SAV	DH
A:7470A	680-58086-A-3-B		680-171106	680-170770	06/09/2010 19:18	1	TAL SAV	CE

Lab ID: 680-58086-4 **Client ID: MW-40D (52610)**

Sample Date/Time: 05/26/2010 17:10 Received Date/Time: 05/28/2010 09:18

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58086-D-4		680-170256		06/01/2010 17:30	1	TAL SAV	CL
A:8260B	680-58086-D-4		680-170256		06/01/2010 17:30	1	TAL SAV	CL
P:3520C	680-58086-A-4-A		680-170563	680-170229	06/01/2010 15:33	1	TAL SAV	RBS
A:8081A_8082	680-58086-A-4-A		680-170563	680-170229	06/03/2010 22:46	1	TAL SAV	JK
P:3520C	680-58086-A-4-A		680-170565	680-170229	06/01/2010 15:33	1	TAL SAV	RBS
A:8081B/8082A	680-58086-A-4-A		680-170565	680-170229	06/03/2010 22:46	1	TAL SAV	JK
P:3005A	680-58086-C-4-A		680-170841	680-170586	06/04/2010 11:43	1	TAL SAV	RA
A:6010B	680-58086-C-4-A		680-170841	680-170586	06/08/2010 05:35	1	TAL SAV	BR
P:7470A	680-58086-A-4-B		680-171106	680-170770	06/07/2010 16:32	1	TAL SAV	DH
A:7470A	680-58086-A-4-B		680-171106	680-170770	06/09/2010 19:21	1	TAL SAV	CE

Lab ID: 680-58086-5 **Client ID: MW-40S (52610)**

Sample Date/Time: 05/26/2010 18:00 Received Date/Time: 05/28/2010 09:18

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58086-D-5		680-170256		06/01/2010 18:00	1	TAL SAV	CL
A:8260B	680-58086-D-5		680-170256		06/01/2010 18:00	1	TAL SAV	CL
P:3520C	680-58086-A-5-A		680-170563	680-170229	06/01/2010 15:33	1	TAL SAV	RBS
A:8081A_8082	680-58086-A-5-A		680-170563	680-170229	06/03/2010 23:09	1	TAL SAV	JK
P:3520C	680-58086-A-5-A		680-170565	680-170229	06/01/2010 15:33	1	TAL SAV	RBS
A:8081B/8082A	680-58086-A-5-A		680-170565	680-170229	06/03/2010 23:09	1	TAL SAV	JK
P:3005A	680-58086-C-5-A		680-170841	680-170586	06/04/2010 11:43	1	TAL SAV	RA
A:6010B	680-58086-C-5-A		680-170841	680-170586	06/08/2010 05:40	1	TAL SAV	BR
P:7470A	680-58086-A-5-B		680-171106	680-170770	06/07/2010 16:32	1	TAL SAV	DH
A:7470A	680-58086-A-5-B		680-171106	680-170770	06/09/2010 19:24	1	TAL SAV	CE

Client: Ashland Inc. Job Number: 680-58086-1

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Lab ID: 680-58086-6 **Client ID: MW-40I (52610)**

Sample Date/Time: 05/26/2010 16:20 Received Date/Time: 05/28/2010 09:18

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58086-D-6		680-170256		06/01/2010 18:30	1	TAL SAV	CL
A:8260B	680-58086-D-6		680-170256		06/01/2010 18:30	1	TAL SAV	CL
P:3520C	680-58086-A-6-A		680-170563	680-170229	06/01/2010 15:33	1	TAL SAV	RBS
A:8081A_8082	680-58086-A-6-A		680-170563	680-170229	06/03/2010 23:32	1	TAL SAV	JK
P:3520C	680-58086-A-6-A		680-170565	680-170229	06/01/2010 15:33	1	TAL SAV	RBS
A:8081B/8082A	680-58086-A-6-A		680-170565	680-170229	06/03/2010 23:32	1	TAL SAV	JK
P:3005A	680-58086-C-6-A		680-170841	680-170586	06/04/2010 11:43	1	TAL SAV	RA
A:6010B	680-58086-C-6-A		680-170841	680-170586	06/08/2010 05:55	1	TAL SAV	BR
P:7470A	680-58086-A-6-B		680-171106	680-170770	06/07/2010 16:32	1	TAL SAV	DH
A:7470A	680-58086-A-6-B		680-171106	680-170770	06/09/2010 19:27	1	TAL SAV	CE

Lab ID: 680-58086-7 **Client ID: MW-17S (52610)**

Sample Date/Time: 05/26/2010 15:20 Received Date/Time: 05/28/2010 09:18

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58086-A-7		680-170256		06/01/2010 18:59	1	TAL SAV	CL
A:8260B	680-58086-A-7		680-170256		06/01/2010 18:59	1	TAL SAV	CL

Lab ID: 680-58086-8 **Client ID: MW-17D (52610)**

Sample Date/Time: 05/26/2010 15:20 Received Date/Time: 05/28/2010 09:18

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58086-B-8		680-170360		06/02/2010 13:18	1	TAL SAV	WJC
A:8260B	680-58086-B-8		680-170360		06/02/2010 13:18	1	TAL SAV	WJC

Lab ID: 680-58086-9 **Client ID: MW-27D (52610)**

Sample Date/Time: 05/26/2010 14:05 Received Date/Time: 05/28/2010 09:18

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58086-C-9		680-170256		06/01/2010 19:58	1	TAL SAV	CL
A:8260B	680-58086-C-9		680-170256		06/01/2010 19:58	1	TAL SAV	CL
P:3520C	680-58086-A-9-A		680-170563	680-170229	06/01/2010 15:33	1	TAL SAV	RBS
A:8081A_8082	680-58086-A-9-A		680-170563	680-170229	06/03/2010 23:55	1	TAL SAV	JK
P:3520C	680-58086-A-9-A		680-170565	680-170229	06/01/2010 15:33	1	TAL SAV	RBS
A:8081B/8082A	680-58086-A-9-A		680-170565	680-170229	06/03/2010 23:55	1	TAL SAV	JK

Client: Ashland Inc. Job Number: 680-58086-1

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Lab ID: 680-58086-10 **Client ID:** MW-19D (52610)

Sample Date/Time: 05/26/2010 12:25 Received Date/Time: 05/28/2010 09:18

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58086-B-10		680-170360		06/02/2010 12:49	5	TAL SAV	WJC
A:8260B	680-58086-B-10		680-170360		06/02/2010 12:49	5	TAL SAV	WJC

Lab ID: 680-58086-11 **Client ID:** MW-19S (52610)

Sample Date/Time: 05/26/2010 12:20 Received Date/Time: 05/28/2010 09:18

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58086-A-11		680-170211		06/01/2010 18:20	1	TAL SAV	JW
A:8260B	680-58086-A-11		680-170211		06/01/2010 18:20	1	TAL SAV	JW

Lab ID: 680-58086-12 **Client ID:** MW-19I (52610)

Sample Date/Time: 05/26/2010 13:05 Received Date/Time: 05/28/2010 09:18

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58086-B-12		680-170360		06/02/2010 13:47	1	TAL SAV	WJC
A:8260B	680-58086-B-12		680-170360		06/02/2010 13:47	1	TAL SAV	WJC

Lab ID: 680-58086-13 **Client ID:** MW-18 (52610)

Sample Date/Time: 05/26/2010 10:25 Received Date/Time: 05/28/2010 09:18

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58086-B-13		680-170360		06/02/2010 14:15	1	TAL SAV	WJC
A:8260B	680-58086-B-13		680-170360		06/02/2010 14:15	1	TAL SAV	WJC

Lab ID: 680-58086-14 **Client ID:** MW-16S (52710)

Sample Date/Time: 05/27/2010 10:55 Received Date/Time: 05/28/2010 09:18

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58086-A-14		680-170360		06/02/2010 15:42	1	TAL SAV	WJC
A:8260B	680-58086-A-14		680-170360		06/02/2010 15:42	1	TAL SAV	WJC

Lab ID: 680-58086-15 **Client ID:** MW-16D (52710)

Sample Date/Time: 05/27/2010 11:00 Received Date/Time: 05/28/2010 09:18

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58086-A-15		680-170360		06/02/2010 16:10	1	TAL SAV	WJC
A:8260B	680-58086-A-15		680-170360		06/02/2010 16:10	1	TAL SAV	WJC

Client: Ashland Inc. Job Number: 680-58086-1

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Lab ID: 680-58086-16 **Client ID: MW-32D (52710)**

Sample Date/Time: 05/27/2010 13:30 Received Date/Time: 05/28/2010 09:18

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58086-B-16		680-170469		06/03/2010 12:05	1	TAL SAV	JW
A:8260B	680-58086-B-16		680-170469		06/03/2010 12:05	1	TAL SAV	JW
P:3520C	680-58086-D-16-A		680-170563	680-170229	06/01/2010 15:33	1	TAL SAV	RBS
A:8081A_8082	680-58086-D-16-A		680-170563	680-170229	06/04/2010 00:18	1	TAL SAV	JK
P:3520C	680-58086-D-16-A		680-170565	680-170229	06/01/2010 15:33	1	TAL SAV	RBS
A:8081B/8082A	680-58086-D-16-A		680-170565	680-170229	06/04/2010 00:18	1	TAL SAV	JK

Lab ID: 680-58086-17 **Client ID: MW-41I (52710)**

Sample Date/Time: 05/27/2010 14:05 Received Date/Time: 05/28/2010 09:18

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	680-58086-A-17-A		680-170841	680-170586	06/04/2010 11:43	1	TAL SAV	RA
A:6010B	680-58086-A-17-A		680-170841	680-170586	06/08/2010 06:00	1	TAL SAV	BR
P:7470A	680-58086-A-17-B		680-171106	680-170770	06/07/2010 16:32	1	TAL SAV	DH
A:7470A	680-58086-A-17-B		680-171106	680-170770	06/09/2010 19:36	1	TAL SAV	CE

Lab ID: 680-58086-18 **Client ID: MW-30S (52710)**

Sample Date/Time: 05/27/2010 12:35 Received Date/Time: 05/28/2010 09:18

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58086-C-18		680-170360		06/02/2010 17:08	1	TAL SAV	WJC
A:8260B	680-58086-C-18		680-170360		06/02/2010 17:08	1	TAL SAV	WJC

Lab ID: 680-58086-19 **Client ID: MW-30D (52710)**

Sample Date/Time: 05/27/2010 12:25 Received Date/Time: 05/28/2010 09:18

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58086-A-19		680-170469		06/03/2010 12:34	1	TAL SAV	JW
A:8260B	680-58086-A-19		680-170469		06/03/2010 12:34	1	TAL SAV	JW

Lab ID: 680-58086-20 **Client ID: MW-33 (52710)**

Sample Date/Time: 05/27/2010 15:05 Received Date/Time: 05/28/2010 09:18

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58086-C-20		680-170350		06/02/2010 16:25	1	TAL SAV	JW
A:8260B	680-58086-C-20		680-170350		06/02/2010 16:25	1	TAL SAV	JW
P:3520C	680-58086-A-20-A		680-170563	680-170229	06/01/2010 15:33	1	TAL SAV	RBS
A:8081A_8082	680-58086-A-20-A		680-170563	680-170229	06/04/2010 00:41	1	TAL SAV	JK
P:3520C	680-58086-A-20-A		680-170565	680-170229	06/01/2010 15:33	1	TAL SAV	RBS
A:8081B/8082A	680-58086-A-20-A		680-170565	680-170229	06/04/2010 00:41	1	TAL SAV	JK

Client: Ashland Inc. Job Number: 680-58086-1

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Lab ID: 680-58086-21 **Client ID: MW-53S (52710)**

Sample Date/Time: 05/27/2010 15:40 Received Date/Time: 05/28/2010 09:18

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58086-D-21		680-170350		06/02/2010 16:54	1	TAL SAV	JW
A:8260B	680-58086-D-21		680-170350		06/02/2010 16:54	1	TAL SAV	JW
P:3520C	680-58086-A-21-A		680-170563	680-170229	06/01/2010 15:33	1	TAL SAV	RBS
A:8081A_8082	680-58086-A-21-A		680-170563	680-170229	06/04/2010 01:04	1	TAL SAV	JK
P:3520C	680-58086-A-21-A		680-170565	680-170229	06/01/2010 15:33	1	TAL SAV	RBS
A:8081B/8082A	680-58086-A-21-A		680-170565	680-170229	06/04/2010 01:04	1	TAL SAV	JK
P:3005A	680-58086-C-21-A		680-170841	680-170586	06/04/2010 11:43	1	TAL SAV	RA
A:6010B	680-58086-C-21-A		680-170841	680-170586	06/08/2010 06:05	1	TAL SAV	BR
P:7470A	680-58086-A-21-B		680-171106	680-170770	06/07/2010 16:32	1	TAL SAV	DH
A:7470A	680-58086-A-21-B		680-171106	680-170770	06/09/2010 19:39	1	TAL SAV	CE

Lab ID: 680-58086-22 **Client ID: Trip Blank**

Sample Date/Time: 05/27/2010 00:00 Received Date/Time: 05/28/2010 09:18

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58086-A-22		680-170469		06/03/2010 14:57	1	TAL SAV	JW
A:8260B	680-58086-A-22		680-170469		06/03/2010 14:57	1	TAL SAV	JW

Lab ID: MB **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	MB 680-170256/8		680-170256		06/01/2010 11:57	1	TAL SAV	CL
A:8260B	MB 680-170256/8		680-170256		06/01/2010 11:57	1	TAL SAV	CL
P:5030B	MB 680-170211/8		680-170211		06/01/2010 12:35	1	TAL SAV	JW
A:8260B	MB 680-170211/8		680-170211		06/01/2010 12:35	1	TAL SAV	JW
P:5030B	MB 680-170241/1		680-170241		06/01/2010 12:50	1	TAL SAV	JW
A:8260B	MB 680-170241/1		680-170241		06/01/2010 12:50	1	TAL SAV	JW
P:5030B	MB 680-170350/7		680-170350		06/02/2010 11:23	1	TAL SAV	JW
A:8260B	MB 680-170350/7		680-170350		06/02/2010 11:23	1	TAL SAV	JW
P:5030B	MB 680-170360/7		680-170360		06/02/2010 12:21	1	TAL SAV	WJC
A:8260B	MB 680-170360/7		680-170360		06/02/2010 12:21	1	TAL SAV	WJC
P:5030B	MB 680-170469/7		680-170469		06/03/2010 10:53	1	TAL SAV	JW
A:8260B	MB 680-170469/7		680-170469		06/03/2010 10:53	1	TAL SAV	JW
P:3520C	MB 680-170229/20-A		680-170563	680-170229	06/01/2010 15:33	1	TAL SAV	RBS
A:8081A_8082	MB 680-170229/20-A		680-170563	680-170229	06/03/2010 20:28	1	TAL SAV	JK
P:3520C	MB 680-170229/20-A		680-170565	680-170229	06/01/2010 15:33	1	TAL SAV	RBS
A:8081B/8082A	MB 680-170229/20-A		680-170565	680-170229	06/03/2010 20:28	1	TAL SAV	JK
P:3005A	MB 680-170586/16-A		680-170841	680-170586	06/04/2010 11:43	1	TAL SAV	RA
A:6010B	MB 680-170586/16-A		680-170841	680-170586	06/08/2010 04:55	1	TAL SAV	BR
P:7470A	MB 680-170770/23-A		680-171106	680-170770	06/07/2010 16:32	1	TAL SAV	DH
A:7470A	MB 680-170770/23-A		680-171106	680-170770	06/09/2010 18:25	1	TAL SAV	CE

Client: Ashland Inc. Job Number: 680-58086-1

Laboratory Chronicle

Lab ID: LCS **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCS 680-170256/4		680-170256		06/01/2010 09:59	1	TAL SAV	CL
A:8260B	LCS 680-170256/4		680-170256		06/01/2010 09:59	1	TAL SAV	CL
P:5030B	LCS 680-170211/4		680-170211		06/01/2010 10:28	1	TAL SAV	JW
A:8260B	LCS 680-170211/4		680-170211		06/01/2010 10:28	1	TAL SAV	JW
P:5030B	LCS 680-170241/5		680-170241		06/01/2010 10:43	1	TAL SAV	JW
A:8260B	LCS 680-170241/5		680-170241		06/01/2010 10:43	1	TAL SAV	JW
P:5030B	LCS 680-170350/4		680-170350		06/02/2010 09:19	1	TAL SAV	JW
A:8260B	LCS 680-170350/4		680-170350		06/02/2010 09:19	1	TAL SAV	JW
P:5030B	LCS 680-170360/4		680-170360		06/02/2010 09:33	1	TAL SAV	WJC
A:8260B	LCS 680-170360/4		680-170360		06/02/2010 09:33	1	TAL SAV	WJC
P:5030B	LCS 680-170469/4		680-170469		06/03/2010 08:43	1	TAL SAV	JW
A:8260B	LCS 680-170469/4		680-170469		06/03/2010 08:43	1	TAL SAV	JW
P:3520C	LCS 680-170229/27-A		680-170563	680-170229	06/01/2010 15:33	1	TAL SAV	RBS
A:8081A_8082	LCS 680-170229/27-A		680-170563	680-170229	06/03/2010 21:37	1	TAL SAV	JK
P:3520C	LCS 680-170229/27-A		680-170565	680-170229	06/01/2010 15:33	1	TAL SAV	RBS
A:8081B/8082A	LCS 680-170229/27-A		680-170565	680-170229	06/03/2010 21:37	1	TAL SAV	JK
P:3005A	LCS 680-170586/17-A		680-170841	680-170586	06/04/2010 11:43	1	TAL SAV	RA
A:6010B	LCS 680-170586/17-A		680-170841	680-170586	06/08/2010 05:00	1	TAL SAV	BR
P:7470A	LCS 680-170770/24-A		680-171106	680-170770	06/07/2010 16:32	1	TAL SAV	DH
A:7470A	LCS 680-170770/24-A		680-171106	680-170770	06/09/2010 18:28	1	TAL SAV	CE

Lab ID: LCSD **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCSD 680-170256/6		680-170256		06/01/2010 10:29	1	TAL SAV	CL
A:8260B	LCSD 680-170256/6		680-170256		06/01/2010 10:29	1	TAL SAV	CL
P:5030B	LCSD 680-170211/5		680-170211		06/01/2010 10:57	1	TAL SAV	JW
A:8260B	LCSD 680-170211/5		680-170211		06/01/2010 10:57	1	TAL SAV	JW
P:5030B	LCSD 680-170241/6		680-170241		06/01/2010 11:11	1	TAL SAV	JW
A:8260B	LCSD 680-170241/6		680-170241		06/01/2010 11:11	1	TAL SAV	JW
P:5030B	LCSD 680-170360/5		680-170360		06/02/2010 10:12	1	TAL SAV	WJC
A:8260B	LCSD 680-170360/5		680-170360		06/02/2010 10:12	1	TAL SAV	WJC
P:5030B	LCSD 680-170469/5		680-170469		06/03/2010 09:27	1	TAL SAV	JW
A:8260B	LCSD 680-170469/5		680-170469		06/03/2010 09:27	1	TAL SAV	JW

Lab References:

TAL SAV = TestAmerica Savannah

Serial Number U31451

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)	PAGE	OF
ASHLAND - BRUNSWICK	J0984-8509	GA.	1	2
TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.		
LYDIA GULIZIA	4501306047	N/A		
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX		
TIM HASSETT				
CLIENT NAME	CLIENT E-MAIL			
ASHLAND DELTA CONSULTANTS				
CLIENT ADDRESS				
2801 Cook St. Brunswick, GA.				
COMPANY CONTRACTING THIS WORK (if applicable)				
DELTA CONSULTANTS				

STANDARD REPORT DELIVERY

DATE DUE

EXPEDITED REPORT DELIVERY (SURCHARGE)

DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: APPENDIX IX 8260B - VOCs	REQUIRED ANALYSIS: 8082 8081A - TOXAPHENE	REQUIRED ANALYSIS: 7470A APPENDIX IX 6010B METALS MERCURY	NUMBER OF CONTAINERS SUBMITTED	REMARKS
5/25/10	1750	(52510) MW-31D	G	X				3				
↓	1650 ~~1840~~	(52510) MW-31S							2	1		
↓	1840	(52510) MW-31I							2	1		
5/26/10	1710	(52610) MW-40D						3	2	1		
	1800	(52610) MW-40S							2	1		
	1620	(52610) MW-40I							2	1		
	1520	(52610) MW-17S										
	1520	(52610) MW-17D										
	1405	(52610) MW-27D							2			
	1225	(52610) MW-19D										
	1220	(52610) MW-19S										
	1305	(52610) MW-19I										

Page 134 of 136

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
Bill Howell	5/28/10	1700						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
	5/28/10	0918	YES ○ NO ○		680-58086	4.6 | 4.4 | 4.6

TAL8240-680 (1207)

Serial Number 029800

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

X TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

○ Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
ASHLAND - BRUNSWICK	JO 984-850-9	GA.
TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
LYDIA GULIZIA	4501306047	N/A
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
TIM HASSETT		
CLIENT NAME	CLIENT E-MAIL	
ASHLAND DELTA CONSULTANTS		
CLIENT ADDRESS		
2801 COOK ST. BRUNSWICK, GA.		
COMPANY CONTRACTING THIS WORK (if applicable)		
DELTA CONSULTANTS		

PAGE 2 OF 2

STANDARD REPORT DELIVERY ☒

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ○

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: APPENDIX-B 8260B - VOC'S	8082 8081A - TOXAPHENE	6010B-APP. 9 METAL 7470A - MERCURY	REMARKS
								N/A	N/A	HNO3 PRESERVATIVE	
								NUMBER OF CONTAINERS SUBMITTED			
5/26/10	1025	(52610) MW-18	G	X				3			
5/27/10	1055	(52710) MW-16S									
	1100	(52710) MW-16D									
	1330	(52710) MW-32D									
	1405	(52710) MW-41I								1	
	1235	(52710) MW-30S						3	2		
	1225	(52710) MW-30D									
	1505	(52710) MW 33							2		
	1540 ~~1505~~	(52710) MW 53S							2	1	
		~~(52710) MW-25S~~							2		BWH
		(52710) MW 25D							2		BWH
		(52710)									BWH

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
BW Howell	5/28/10	1700						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
	5/28/10	0918	YES ○ NO ○		680-58086	

TAL8240-680 (1207)

Login Sample Receipt Check List

Client: Ashland Inc.

Job Number: 680-58086-1

Login Number: 58086

List Source: TestAmerica Savannah

Creator: Conner, Keaton

List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	-16 logged for Toxaphene/-18 not logged for Toxaphene--see below
There are no discrepancies between the sample IDs on the containers and the COC.	False	Received liter volume -16--not received -18/TB not listed
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	1 liter -9 received broken
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified	True	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 680-58129-1

Job Description: Ashland Brunswick RFI GW May 2010

For:
Ashland Inc.
500 Hercules Road
Wilmington, DE 19894

Attention: Timothy Hassett

Approved for release.
Lidya Gulizia
Project Manager I
6/23/2010 5:49 PM

Lidya Gulizia
Project Manager I
lidya.gulizia@testamericainc.com
06/23/2010

cc: Kelley Baker
Mr. Leroy Bishop
Mr. Dennis Brunner
Ryan Cate
Mr. Tony Mancini
Ms. Charlene Rivard

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

Savannah Certifications and ID #s: A2LA: 0399.01; AL: 41450; ARDEQ: 88-0692; ARDOH; AZ: AZ0741; CA: 03217CA; CO; CT: PH0161; DE; FL: E87052; GA: 803; Guam; HI; IL: 200022; IN; IA: 353; KS: E-10322; KY EPPC: 90084; KY UST; LA DEQ: 30690; LA DHH: LA080008; ME: 2008022; MD: 250; MA: M-GA006; MI: 9925; MS; NFESC: 249; NV: GA00006; NJ: GA769; NM; NY: 10842; NC DWQ: 269; NC DHHS: 13701; PA: 68-00474; PR: GA00006; RI: LAO00244; SC: 98001001; TN: TN0296; TX: T104704185; USEPA: GA00006; VT: VT-87052; VA: 00302; WA; WV DEP: 094; WV DHHR: 9950 C; WI DNR: 999819810; WY/EPAR8: 8TMS-Q

TestAmerica Laboratories, Inc.
TestAmerica Savannah 5102 LaRoche Avenue, Savannah, GA 31404
Tel (912) 354-7858 Fax (912) 352-0165 www.testamericainc.com

ACCREDITED IN ACCORDANCE WITH nelac

Receipt
All samples were received in good condition within temperature requirements.

GC/MS VOA
Method(s) 8260B: The equipment blank associated with these samples contained a detection above the reporting limit (RL) for the following analyte: Acetone.

No other analytical or quality issues were noted.

GC Semi VOA
Method(s) 8081B/8082A: Two surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample(s) contained an allowable number of surrogate compounds outside limits: MW-54D (52810) (680-58129-1), MW-54D (52810) (680-58129-1 MSD), MW-54I (52810) (680-58129-4). These results have been reported and qualified.

Method(s) 8081B/8082A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 680-170233 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other analytical or quality issues were noted.

Metals
No analytical or quality issues were noted.

Comments
No additional comments.

METHOD SUMMARY

Client: Ashland Inc. Job Number: 680-58129-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL SAV	SW846 8260B	
Purge and Trap	TAL SAV		SW846 5030B
Organochlorine Pesticides & PCBs (GC)	TAL SAV	SW846 8081A_8082	
Liquid-Liquid Extraction (Continuous)	TAL SAV		SW846 3520C
Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography	TAL SAV	SW846 8081B/8082A	
Liquid-Liquid Extraction (Continuous)	TAL SAV		SW846 3520C
Metals (ICP)	TAL SAV	SW846 6010B	
Preparation, Total Recoverable or Dissolved Metals	TAL SAV		SW846 3005A
Mercury (CVAA)	TAL SAV	SW846 7470A	
Preparation, Mercury	TAL SAV		SW846 7470A

Lab References:

TAL SAV = TestAmerica Savannah

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Ashland Inc. Job Number: 680-58129-1

Method	Analyst	Analyst ID
SW846 8260B	Waldorf, Jonathan	JW
SW846 8081A_8082	Kellar, Joshua	JK
SW846 8081B/8082A	Kellar, Joshua	JK
SW846 6010B	Robertson, Bryn	BR
SW846 7470A	Eaton, Cliff	CE

SAMPLE SUMMARY

Client: Ashland Inc. Job Number: 680-58129-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-58129-1	MW-54D (52810)	Water	a5/28/2a1a 1115	05/29/2010 1318
680-58129-1MS	MW-54D (52810)	Water	05/28/2010 1120	05/29/2010 1318
680-58129-1MSD	MW-54D (52810)	Water	05/28/2010 1120	05/29/2010 1318
680-58129-2FD	MW-54DD (52810)	Water	05/28/2010 1115	05/29/2010 1318
680-58129-3EB	EQPT. BLANK (52810)	Water	05/28/2010 1200	05/29/2010 1318
680-58129-4	MW-54I (52810)	Water	05/28/2010 1315	05/29/2010 1318
680-58129-5	MW-54S (52810)	Water	05/28/2010 1120	05/29/2010 1318
680-58129-6TB	TRIP BLANK	Water	05/28/2010 0000	05/29/2010 1318

SAMPLE RESULTS

Client: Ashland Inc. Job Number: 680-58129-1

Client Sample ID: **MW-54D (52810)**

Lab Sample ID: 680-58129-1 Date Sampled: 05/28/2010 1115
Client Matrix: Water Date Received: 05/29/2010 1318

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-170470 Instrument ID: MSO2
Preparation: 5030B Lab File ID: o2008.d
Dilution: 2.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/03/2010 1317 Final Weight/Volume: 5 mL
Date Prepared: 06/03/2010 1317

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	50	U	10	50
Acetonitrile	80	U	20	80
Acrolein	40	U	15	40
Acrylonitrile	40	U	14	40
Benzene	110		0.50	2.0
Bromoform	2.0	U	1.0	2.0
Bromomethane	2.0	U	1.6	2.0
2-Butanone (MEK)	20	U	2.0	20
Carbon disulfide	4.0	U	1.2	4.0
Carbon tetrachloride	2.0	U	1.0	2.0
Chlorobenzene	170		0.50	2.0
2-Chloro-1,3-butadiene	2.0	U	0.60	2.0
Chlorodibromomethane	2.0	U	0.20	2.0
Chloroethane	2.0	U	2.0	2.0
Chloroform	1.7	J	0.28	2.0
Chloromethane	2.0	U	0.66	2.0
3-Chloro-1-propene	2.0	U	0.40	2.0
cis-1,3-Dichloropropene	2.0	U	0.22	2.0
1,2-Dibromo-3-Chloropropane	2.0	U	0.88	2.0
Dibromomethane	2.0	U	0.40	2.0
Dichlorobromomethane	2.0	U	0.50	2.0
Dichlorodifluoromethane	2.0	U	0.50	2.0
1,1-Dichloroethane	0.61	J	0.50	2.0
1,2-Dichloroethane	2.9		0.20	2.0
1,1-Dichloroethene	0.61	J	0.22	2.0
1,2-Dichloropropane	2.0	U	0.26	2.0
Ethylbenzene	32		0.22	2.0
Ethylene Dibromide	2.0	U	0.50	2.0
Ethyl methacrylate	2.0	U	0.50	2.0
2-Hexanone	20	U	2.0	20
Iodomethane	10	U	2.0	10
Isobutyl alcohol	80	U	22	80
Methacrylonitrile	40	U	6.6	40
Methylene Chloride	17		2.0	10
Methyl methacrylate	2.0	U	0.96	2.0
4-Methyl-2-pentanone (MIBK)	20	U	2.0	20
Pentachloroethane	10	U	2.4	10
Propionitrile	40	U	9.2	40
Styrene	2.0	U	0.22	2.0
1,1,1,2-Tetrachloroethane	2.0	U	0.66	2.0
1,1,2,2-Tetrachloroethane	2.0	U	0.36	2.0
Tetrachloroethene	0.59	J	0.30	2.0
Toluene	13		0.66	2.0
trans-1,4-Dichloro-2-butene	4.0	U	1.0	4.0
trans-1,2-Dichloroethene	2.0	U	0.40	2.0
trans-1,3-Dichloropropene	2.0	U	0.42	2.0

Client: Ashland Inc. Job Number: 680-58129-1

Client Sample ID: **MW-54D (52810)**

Lab Sample ID: 680-58129-1 Date Sampled: 05/28/2010 1115
Client Matrix: Water Date Received: 05/29/2010 1318

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-170470		Instrument ID:	MSO2
Preparation:	5030B			Lab File ID:	o2008.d
Dilution:	2.0			Initial Weight/Volume:	5 mL
Date Analyzed:	06/03/2010 1317			Final Weight/Volume:	5 mL
Date Prepared:	06/03/2010 1317				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	2.0	U	1.0	2.0
1,1,2-Trichloroethane	2.0	U	0.26	2.0
Trichloroethene	0.70	J	0.26	2.0
Trichlorofluoromethane	2.0	U	0.50	2.0
1,2,3-Trichloropropane	2.0	U	0.82	2.0
Vinyl acetate	4.0	U	0.56	4.0
Vinyl chloride	2.0	U	0.36	2.0
Xylenes, Total	320		0.40	4.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	97		75 - 120
Dibromofluoromethane	80		75 - 121
Toluene-d8 (Surr)	98		75 - 120

Client: Ashland Inc. Job Number: 680-58129-1

Client Sample ID: **MW-54DD (52810)**

Lab Sample ID: 680-58129-2FD Date Sampled: 05/28/2010 1115
Client Matrix: Water Date Received: 05/29/2010 1318

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-170470		Instrument ID:	MSO2
Preparation:	5030B			Lab File ID:	o2010.d
Dilution:	2.0			Initial Weight/Volume:	5 mL
Date Analyzed:	06/03/2010 1345			Final Weight/Volume:	5 mL
Date Prepared:	06/03/2010 1345				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	21	J	10	50
Acetonitrile	80	U	20	80
Acrolein	40	U	15	40
Acrylonitrile	40	U	14	40
Benzene	120		0.50	2.0
Bromoform	2.0	U	1.0	2.0
Bromomethane	2.0	U	1.6	2.0
2-Butanone (MEK)	2.2	J	2.0	20
Carbon disulfide	4.0	U	1.2	4.0
Carbon tetrachloride	2.0	U	1.0	2.0
Chlorobenzene	180		0.50	2.0
2-Chloro-1,3-butadiene	2.0	U	0.60	2.0
Chlorodibromomethane	2.0	U	0.20	2.0
Chloroethane	2.0	U	2.0	2.0
Chloroform	1.8	J	0.28	2.0
Chloromethane	2.0	U	0.66	2.0
3-Chloro-1-propene	2.0	U	0.40	2.0
cis-1,3-Dichloropropene	2.0	U	0.22	2.0
1,2-Dibromo-3-Chloropropane	2.0	U	0.88	2.0
Dibromomethane	2.0	U	0.40	2.0
Dichlorobromomethane	2.0	U	0.50	2.0
Dichlorodifluoromethane	2.0	U	0.50	2.0
1,1-Dichloroethane	0.64	J	0.50	2.0
1,2-Dichloroethane	2.9		0.20	2.0
1,1-Dichloroethene	0.58	J	0.22	2.0
1,2-Dichloropropane	2.0	U	0.26	2.0
Ethylbenzene	33		0.22	2.0
Ethylene Dibromide	2.0	U	0.50	2.0
Ethyl methacrylate	2.0	U	0.50	2.0
2-Hexanone	20	U	2.0	20
Iodomethane	10	U	2.0	10
Isobutyl alcohol	80	U	22	80
Methacrylonitrile	40	U	6.6	40
Methylene Chloride	17		2.0	10
Methyl methacrylate	2.0	U	0.96	2.0
4-Methyl-2-pentanone (MIBK)	20	U	2.0	20
Pentachloroethane	10	U	2.4	10
Propionitrile	40	U	9.2	40
Styrene	2.0	U	0.22	2.0
1,1,1,2-Tetrachloroethane	2.0	U	0.66	2.0
1,1,2,2-Tetrachloroethane	2.0	U	0.36	2.0
Tetrachloroethene	0.61	J	0.30	2.0
Toluene	13		0.66	2.0
trans-1,4-Dichloro-2-butene	4.0	U	1.0	4.0
trans-1,2-Dichloroethene	2.0	U	0.40	2.0
trans-1,3-Dichloropropene	2.0	U	0.42	2.0

Client: Ashland Inc. Job Number: 680-58129-1

Client Sample ID: **MW-54DD (52810)**

Lab Sample ID: 680-58129-2FD Date Sampled: 05/28/2010 1115
Client Matrix: Water Date Received: 05/29/2010 1318

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-170470	Instrument ID:	MSO2
Preparation:	5030B		Lab File ID:	o2010.d
Dilution:	2.0		Initial Weight/Volume:	5 mL
Date Analyzed:	06/03/2010 1345		Final Weight/Volume:	5 mL
Date Prepared:	06/03/2010 1345			

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	2.0	U	1.0	2.0
1,1,2-Trichloroethane	2.0	U	0.26	2.0
Trichloroethene	0.74	J	0.26	2.0
Trichlorofluoromethane	2.0	U	0.50	2.0
1,2,3-Trichloropropane	2.0	U	0.82	2.0
Vinyl acetate	4.0	U	0.56	4.0
Vinyl chloride	2.0	U	0.36	2.0
Xylenes, Total	330		0.40	4.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	102		75 - 120
Dibromofluoromethane	83		75 - 121
Toluene-d8 (Surr)	98		75 - 120

Client: Ashland Inc. Job Number: 680-58129-1

Client Sample ID: **EQPT. BLANK (52810)**

Lab Sample ID: 680-58129-3EB Date Sampled: 05/28/2010 1200
Client Matrix: Water Date Received: 05/29/2010 1318

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-170470		Instrument ID:	MSO2
Preparation:	5030B			Lab File ID:	o2004.d
Dilution:	1.0			Initial Weight/Volume:	5 mL
Date Analyzed:	06/03/2010 1219			Final Weight/Volume:	5 mL
Date Prepared:	06/03/2010 1219				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	300		5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	0.16	J	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-58129-1

Client Sample ID: **EQPT. BLANK (52810)**

Lab Sample ID: 680-58129-3EB Date Sampled: 05/28/2010 1200
Client Matrix: Water Date Received: 05/29/2010 1318

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-170470	Instrument ID:	MSO2
Preparation:	5030B		Lab File ID:	o2004.d
Dilution:	1.0		Initial Weight/Volume:	5 mL
Date Analyzed:	06/03/2010 1219		Final Weight/Volume:	5 mL
Date Prepared:	06/03/2010 1219			

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	1.3	J	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	93		75 - 120
Dibromofluoromethane	93		75 - 121
Toluene-d8 (Surr)	95		75 - 120

Client: Ashland Inc. Job Number: 680-58129-1

Client Sample ID: **MW-54I (52810)**

Lab Sample ID: 680-58129-4 Date Sampled: 05/28/2010 1315
Client Matrix: Water Date Received: 05/29/2010 1318

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-170470 Instrument ID: MSO2
Preparation: 5030B Lab File ID: o2012.d
Dilution: 100 Initial Weight/Volume: 5 mL
Date Analyzed: 06/03/2010 1414 Final Weight/Volume: 5 mL
Date Prepared: 06/03/2010 1414

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	2500	U	500	2500
Acetonitrile	4000	U	1000	4000
Acrolein	2000	U	740	2000
Acrylonitrile	2000	U	720	2000
Benzene	100	U	25	100
Bromoform	100	U	50	100
Bromomethane	100	U	80	100
2-Butanone (MEK)	1000	U	100	1000
Carbon disulfide	200	U	60	200
Carbon tetrachloride	100	U	50	100
Chlorobenzene	28	J	25	100
2-Chloro-1,3-butadiene	100	U	30	100
Chlorodibromomethane	100	U	10	100
Chloroethane	100	U	100	100
Chloroform	100	U	14	100
Chloromethane	100	U	33	100
3-Chloro-1-propene	100	U	20	100
cis-1,3-Dichloropropene	100	U	11	100
1,2-Dibromo-3-Chloropropane	100	U	44	100
Dibromomethane	100	U	20	100
Dichlorobromomethane	100	U	25	100
Dichlorodifluoromethane	100	U	25	100
1,1-Dichloroethane	100	U	25	100
1,2-Dichloroethane	100	U	10	100
1,1-Dichloroethene	100	U	11	100
1,2-Dichloropropane	100	U	13	100
Ethylbenzene	3300		11	100
Ethylene Dibromide	100	U	25	100
Ethyl methacrylate	100	U	25	100
2-Hexanone	1000	U	100	1000
Iodomethane	500	U	100	500
Isobutyl alcohol	4000	U	1100	4000
Methacrylonitrile	2000	U	330	2000
Methylene Chloride	500	U	100	500
Methyl methacrylate	100	U	48	100
4-Methyl-2-pentanone (MIBK)	1000	U	100	1000
Pentachloroethane	500	U	120	500
Propionitrile	2000	U	460	2000
Styrene	100	U	11	100
1,1,1,2-Tetrachloroethane	100	U	33	100
1,1,2,2-Tetrachloroethane	100	U	18	100
Tetrachloroethene	100	U	15	100
Toluene	47	J	33	100
trans-1,4-Dichloro-2-butene	200	U	50	200
trans-1,2-Dichloroethene	100	U	20	100
trans-1,3-Dichloropropene	100	U	21	100

Client: Ashland Inc. Job Number: 680-58129-1

Client Sample ID: **MW-54I (52810)**

Lab Sample ID: 680-58129-4 Date Sampled: 05/28/2010 1315
Client Matrix: Water Date Received: 05/29/2010 1318

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-170470	Instrument ID:	MSO2
Preparation:	5030B		Lab File ID:	o2012.d
Dilution:	100		Initial Weight/Volume:	5 mL
Date Analyzed:	06/03/2010 1414		Final Weight/Volume:	5 mL
Date Prepared:	06/03/2010 1414			

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	100	U	50	100
1,1,2-Trichloroethane	100	U	13	100
Trichloroethene	100	U	13	100
Trichlorofluoromethane	100	U	25	100
1,2,3-Trichloropropane	100	U	41	100
Vinyl acetate	200	U	28	200
Vinyl chloride	100	U	18	100
Xylenes, Total	21000		20	200

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	99		75 - 120
Dibromofluoromethane	84		75 - 121
Toluene-d8 (Surr)	99		75 - 120

Client: Ashland Inc. Job Number: 680-58129-1

Client Sample ID: **MW-54S (52810)**

Lab Sample ID: 680-58129-5 Date Sampled: 05/28/2010 1120
Client Matrix: Water Date Received: 05/29/2010 1318

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-170470	Instrument ID: MSO2
Preparation:	5030B		Lab File ID: o2014.d
Dilution:	20		Initial Weight/Volume: 5 mL
Date Analyzed:	06/03/2010 1442		Final Weight/Volume: 5 mL
Date Prepared:	06/03/2010 1442		

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	500	U	100	500
Acetonitrile	800	U	200	800
Acrolein	400	U	150	400
Acrylonitrile	400	U	140	400
Benzene	20	U	5.0	20
Bromoform	20	U	10	20
Bromomethane	20	U	16	20
2-Butanone (MEK)	200	U	20	200
Carbon disulfide	40	U	12	40
Carbon tetrachloride	20	U	10	20
Chlorobenzene	20	U	5.0	20
2-Chloro-1,3-butadiene	20	U	6.0	20
Chlorodibromomethane	20	U	2.0	20
Chloroethane	20	U	20	20
Chloroform	20	U	2.8	20
Chloromethane	20	U	6.6	20
3-Chloro-1-propene	20	U	4.0	20
cis-1,3-Dichloropropene	20	U	2.2	20
1,2-Dibromo-3-Chloropropane	20	U	8.8	20
Dibromomethane	20	U	4.0	20
Dichlorobromomethane	20	U	5.0	20
Dichlorodifluoromethane	20	U	5.0	20
1,1-Dichloroethane	20	U	5.0	20
1,2-Dichloroethane	20	U	2.0	20
1,1-Dichloroethene	20	U	2.2	20
1,2-Dichloropropane	20	U	2.6	20
Ethylbenzene	970		2.2	20
Ethylene Dibromide	20	U	5.0	20
Ethyl methacrylate	20	U	5.0	20
2-Hexanone	200	U	20	200
Iodomethane	100	U	20	100
Isobutyl alcohol	800	U	220	800
Methacrylonitrile	400	U	66	400
Methylene Chloride	100	U	20	100
Methyl methacrylate	20	U	9.6	20
4-Methyl-2-pentanone (MIBK)	200	U	20	200
Pentachloroethane	100	U	24	100
Propionitrile	400	U	92	400
Styrene	20	U	2.2	20
1,1,1,2-Tetrachloroethane	20	U	6.6	20
1,1,2,2-Tetrachloroethane	20	U	3.6	20
Tetrachloroethene	20	U	3.0	20
Toluene	20	U	6.6	20
trans-1,4-Dichloro-2-butene	40	U	10	40
trans-1,2-Dichloroethene	20	U	4.0	20
trans-1,3-Dichloropropene	20	U	4.2	20

Client: Ashland Inc. Job Number: 680-58129-1

Client Sample ID: **MW-54S (52810)**

Lab Sample ID: 680-58129-5 Date Sampled: 05/28/2010 1120
Client Matrix: Water Date Received: 05/29/2010 1318

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-170470		Instrument ID:	MSO2
Preparation:	5030B			Lab File ID:	o2014.d
Dilution:	20			Initial Weight/Volume:	5 mL
Date Analyzed:	06/03/2010 1442			Final Weight/Volume:	5 mL
Date Prepared:	06/03/2010 1442				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	20	U	10	20
1,1,2-Trichloroethane	20	U	2.6	20
Trichloroethene	20	U	2.6	20
Trichlorofluoromethane	20	U	5.0	20
1,2,3-Trichloropropane	20	U	8.2	20
Vinyl acetate	40	U	5.6	40
Vinyl chloride	20	U	3.6	20
Xylenes, Total	4300		4.0	40

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	99		75 - 120
Dibromofluoromethane	83		75 - 121
Toluene-d8 (Surr)	96		75 - 120

Client: Ashland Inc. Job Number: 680-58129-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 680-58129-6TB Date Sampled: 05/28/2010 0000
Client Matrix: Water Date Received: 05/29/2010 1318

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-170470		Instrument ID:	MSO2
Preparation:	5030B			Lab File ID:	o2006.d
Dilution:	1.0			Initial Weight/Volume:	5 mL
Date Analyzed:	06/03/2010 1248			Final Weight/Volume:	5 mL
Date Prepared:	06/03/2010 1248				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-58129-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 680-58129-6TB Date Sampled: 05/28/2010 0000
Client Matrix: Water Date Received: 05/29/2010 1318

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-170470	Instrument ID:	MSO2
Preparation:	5030B		Lab File ID:	o2006.d
Dilution:	1.0		Initial Weight/Volume:	5 mL
Date Analyzed:	06/03/2010 1248		Final Weight/Volume:	5 mL
Date Prepared:	06/03/2010 1248			

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	93		75 - 120
Dibromofluoromethane	92		75 - 121
Toluene-d8 (Surr)	96		75 - 120

Client: Ashland Inc. Job Number: 680-58129-1

Client Sample ID: **MW-54D (52810)**

Lab Sample ID: 680-58129-1 Date Sampled: 05/28/2010 1115
Client Matrix: Water Date Received: 05/29/2010 1318

8081A_8082 Organochlorine Pesticides & PCBs (GC)

Method:	8081A_8082	Analysis Batch: 680-170425		Instrument ID:	SGJ
Preparation:	3520C	Prep Batch: 680-170233		Initial Weight/Volume:	1060 mL
Dilution:	1.0			Final Weight/Volume:	10 mL
Date Analyzed:	06/03/2010 0130			Injection Volume:	2 uL
Date Prepared:	06/01/2010 1533			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Total	6.9		0.47	4.7

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	33		14 - 115
Tetrachloro-m-xylene	144	X	35 - 120

Client: Ashland Inc. Job Number: 680-58129-1

Client Sample ID: **MW-54DD (52810)**

Lab Sample ID: 680-58129-2FD Date Sampled: 05/28/2010 1115
Client Matrix: Water Date Received: 05/29/2010 1318

8081A_8082 Organochlorine Pesticides & PCBs (GC)

Method:	8081A_8082	Analysis Batch: 680-170425		Instrument ID:	SGJ
Preparation:	3520C	Prep Batch: 680-170233		Initial Weight/Volume:	1030 mL
Dilution:	1.0			Final Weight/Volume:	10 mL
Date Analyzed:	06/03/2010 0153			Injection Volume:	2 uL
Date Prepared:	06/01/2010 1533			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Total	6.1		0.49	4.9

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	65		14 - 115
Tetrachloro-m-xylene	52		35 - 120

Client: Ashland Inc. Job Number: 680-58129-1

Client Sample ID: **MW-54I (52810)**

Lab Sample ID: 680-58129-4 Date Sampled: 05/28/2010 1315
Client Matrix: Water Date Received: 05/29/2010 1318

8081A_8082 Organochlorine Pesticides & PCBs (GC)

Method:	8081A_8082	Analysis Batch: 680-170425		Instrument ID:	SGJ
Preparation:	3520C	Prep Batch: 680-170233		Initial Weight/Volume:	1050 mL
Dilution:	1.0			Final Weight/Volume:	10 mL
Date Analyzed:	06/03/2010 0216			Injection Volume:	2 uL
Date Prepared:	06/01/2010 1533			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Total	28		0.48	4.8

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	73		14 - 115
Tetrachloro-m-xylene	132	X	35 - 120

Client: Ashland Inc. Job Number: 680-58129-1

Client Sample ID: **MW-54S (52810)**

Lab Sample ID: 680-58129-5 Date Sampled: 05/28/2010 1120
Client Matrix: Water Date Received: 05/29/2010 1318

8081A_8082 Organochlorine Pesticides & PCBs (GC)

Method:	8081A_8082	Analysis Batch: 680-170425		Instrument ID:	SGJ
Preparation:	3520C	Prep Batch: 680-170233		Initial Weight/Volume:	1050 mL
Dilution:	1.0			Final Weight/Volume:	10 mL
Date Analyzed:	06/03/2010 0239			Injection Volume:	2 uL
Date Prepared:	06/01/2010 1533			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Total	4.8	U	0.48	4.8

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	67		14 - 115
Tetrachloro-m-xylene	73		35 - 120

Client: Ashland Inc. Job Number: 680-58129-1

Client Sample ID: **MW-54D (52810)**

Lab Sample ID: 680-58129-1 Date Sampled: 05/28/2010 1115
Client Matrix: Water Date Received: 05/29/2010 1318

8081B/8082A Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Method:	8081B/8082A	Analysis Batch: 680-170426		Instrument ID:	SGJ
Preparation:	3520C	Prep Batch: 680-170233		Initial Weight/Volume:	1060 mL
Dilution:	1.0			Final Weight/Volume:	10 mL
Date Analyzed:	06/03/2010 0130			Injection Volume:	2 uL
Date Prepared:	06/01/2010 1533			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Technical	4.7	U	0.47	4.7

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	33		14 - 115
Tetrachloro-m-xylene	144	X	35 - 120

Client: Ashland Inc. Job Number: 680-58129-1

Client Sample ID: **MW-54DD (52810)**

Lab Sample ID: 680-58129-2FD Date Sampled: 05/28/2010 1115
Client Matrix: Water Date Received: 05/29/2010 1318

8081B/8082A Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Method:	8081B/8082A	Analysis Batch: 680-170426		Instrument ID:	SGJ
Preparation:	3520C	Prep Batch: 680-170233		Initial Weight/Volume:	1030 mL
Dilution:	1.0			Final Weight/Volume:	10 mL
Date Analyzed:	06/03/2010 0153			Injection Volume:	2 uL
Date Prepared:	06/01/2010 1533			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Technical	4.9	U	0.49	4.9

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	65		14 - 115
Tetrachloro-m-xylene	52		35 - 120

Client: Ashland Inc. Job Number: 680-58129-1

Client Sample ID: **MW-54I (52810)**

Lab Sample ID: 680-58129-4 Date Sampled: 05/28/2010 1315
Client Matrix: Water Date Received: 05/29/2010 1318

8081B/8082A Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Method:	8081B/8082A	Analysis Batch: 680-170426		Instrument ID:	SGJ
Preparation:	3520C	Prep Batch: 680-170233		Initial Weight/Volume:	1050 mL
Dilution:	1.0			Final Weight/Volume:	10 mL
Date Analyzed:	06/03/2010 0216			Injection Volume:	2 uL
Date Prepared:	06/01/2010 1533			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Technical	4.8	U	0.48	4.8

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	73		14 - 115
Tetrachloro-m-xylene	132	X	35 - 120

Client: Ashland Inc. Job Number: 680-58129-1

Client Sample ID: **MW-54S (52810)**

Lab Sample ID: 680-58129-5 Date Sampled: 05/28/2010 1120
Client Matrix: Water Date Received: 05/29/2010 1318

8081B/8082A Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Method:	8081B/8082A	Analysis Batch: 680-170426		Instrument ID:	SGJ
Preparation:	3520C	Prep Batch: 680-170233		Initial Weight/Volume:	1050 mL
Dilution:	1.0			Final Weight/Volume:	10 mL
Date Analyzed:	06/03/2010 0239			Injection Volume:	2 uL
Date Prepared:	06/01/2010 1533			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Technical	4.8	U	0.48	4.8

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	67		14 - 115
Tetrachloro-m-xylene	73		35 - 120

Client: Ashland Inc. Job Number: 680-58129-1

Client Sample ID: **MW-54D (52810)**

Lab Sample ID: 680-58129-1 Date Sampled: 05/28/2010 1115
Client Matrix: Water Date Received: 05/29/2010 1318

6010B Metals (ICP)-Total Recoverable

Method:	6010B	Analysis Batch: 680-170841		Instrument ID:	ICPD
Preparation:	3005A	Prep Batch: 680-170586		Lab File ID:	060710.chr
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	06/08/2010 0610			Final Weight/Volume:	50 mL
Date Prepared:	06/04/2010 1143				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	20	U	5.2	20
Arsenic	20	U	10	20
Barium	580		2.0	10
Beryllium	0.15	J	0.10	4.0
Cadmium	5.0	U	2.0	5.0
Chromium	10	U	2.0	10
Cobalt	10	U	1.0	10
Copper	20	U	5.0	20
Lead	10	U	3.4	10
Nickel	40	U	4.0	40
Selenium	20	U	6.4	20
Silver	10	U	0.97	10
Thallium	25	U	8.7	25
Tin	50	U	5.4	50
Vanadium	10	U	3.0	10
Zinc	9.1	J	6.3	20

7470A Mercury (CVAA)

Method:	7470A	Analysis Batch: 680-171231		Instrument ID:	LEEMAN1
Preparation:	7470A	Prep Batch: 680-171056		Lab File ID:	b061010.chr
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	06/10/2010 1934			Final Weight/Volume:	50 mL
Date Prepared:	06/09/2010 1703				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.091	0.20

Client: Ashland Inc. Job Number: 680-58129-1

Client Sample ID: **MW-54DD (52810)**

Lab Sample ID: 680-58129-2FD Date Sampled: 05/28/2010 1115
Client Matrix: Water Date Received: 05/29/2010 1318

6010B Metals (ICP)-Total Recoverable

Method:	6010B	Analysis Batch: 680-170841		Instrument ID:	ICPD
Preparation:	3005A	Prep Batch: 680-170586		Lab File ID:	060710.chr
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	06/08/2010 0635			Final Weight/Volume:	50 mL
Date Prepared:	06/04/2010 1143				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	20	U	5.2	20
Arsenic	20	U	10	20
Barium	400		2.0	10
Beryllium	0.13	J	0.10	4.0
Cadmium	5.0	U	2.0	5.0
Chromium	3.8	J	2.0	10
Cobalt	10	U	1.0	10
Copper	20	U	5.0	20
Lead	10	U	3.4	10
Nickel	40	U	4.0	40
Selenium	20	U	6.4	20
Silver	10	U	0.97	10
Thallium	25	U	8.7	25
Tin	50	U	5.4	50
Vanadium	10	U	3.0	10
Zinc	19	J	6.3	20

7470A Mercury (CVAA)

Method:	7470A	Analysis Batch: 680-171231		Instrument ID:	LEEMAN1
Preparation:	7470A	Prep Batch: 680-171056		Lab File ID:	b061010.chr
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	06/10/2010 1943			Final Weight/Volume:	50 mL
Date Prepared:	06/09/2010 1703				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.091	0.20

Client: Ashland Inc. Job Number: 680-58129-1

Client Sample ID: **MW-54I (52810)**

Lab Sample ID: 680-58129-4 Date Sampled: 05/28/2010 1315
Client Matrix: Water Date Received: 05/29/2010 1318

6010B Metals (ICP)-Total Recoverable

Method:	6010B	Analysis Batch: 680-170841		Instrument ID:	ICPD
Preparation:	3005A	Prep Batch: 680-170586		Lab File ID:	060710.chr
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	06/08/2010 0640			Final Weight/Volume:	50 mL
Date Prepared:	06/04/2010 1143				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	20	U	5.2	20
Arsenic	20	U	10	20
Barium	470		2.0	10
Beryllium	2.5	J	0.10	4.0
Cadmium	5.0	U	2.0	5.0
Chromium	10	U	2.0	10
Cobalt	10	U	1.0	10
Copper	20	U	5.0	20
Lead	10	U	3.4	10
Nickel	40	U	4.0	40
Selenium	20	U	6.4	20
Silver	10	U	0.97	10
Thallium	25	U	8.7	25
Tin	50	U	5.4	50
Vanadium	10	U	3.0	10
Zinc	20	U	6.3	20

7470A Mercury (CVAA)

Method:	7470A	Analysis Batch: 680-171231		Instrument ID:	LEEMAN1
Preparation:	7470A	Prep Batch: 680-171056		Lab File ID:	b061010.chr
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	06/10/2010 1946			Final Weight/Volume:	50 mL
Date Prepared:	06/09/2010 1703				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.091	0.20

Client: Ashland Inc. Job Number: 680-58129-1

Client Sample ID: **MW-54S (52810)**

Lab Sample ID: 680-58129-5 Date Sampled: 05/28/2010 1120
Client Matrix: Water Date Received: 05/29/2010 1318

6010B Metals (ICP)-Total Recoverable

Method:	6010B	Analysis Batch: 680-170841		Instrument ID:	ICPD
Preparation:	3005A	Prep Batch: 680-170586		Lab File ID:	060710.chr
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	06/08/2010 0656			Final Weight/Volume:	50 mL
Date Prepared:	06/04/2010 1143				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	20	U	5.2	20
Arsenic	20	U	10	20
Barium	110		2.0	10
Beryllium	0.15	J	0.10	4.0
Cadmium	5.0	U	2.0	5.0
Chromium	10	U	2.0	10
Cobalt	10	U	1.0	10
Copper	20	U	5.0	20
Lead	10	U	3.4	10
Nickel	40	U	4.0	40
Selenium	20	U	6.4	20
Silver	10	U	0.97	10
Thallium	25	U	8.7	25
Tin	50	U	5.4	50
Vanadium	10	U	3.0	10
Zinc	16	J	6.3	20

7470A Mercury (CVAA)

Method:	7470A	Analysis Batch: 680-171231		Instrument ID:	LEEMAN1
Preparation:	7470A	Prep Batch: 680-171056		Lab File ID:	b061010.chr
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	06/10/2010 1949			Final Weight/Volume:	50 mL
Date Prepared:	06/09/2010 1703				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.091	0.20

DATA REPORTING QUALIFIERS

Client: Ashland Inc. Job Number: 680-58129-1

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Indicates the analyte was analyzed for but not detected.
	F	MS or MSD exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
GC Semi VOA		
	U	Indicates the analyte was analyzed for but not detected.
	F	MS or MSD exceeds the control limits
	X	Surrogate is outside control limits
Metals		
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

QUALITY CONTROL RESULTS

Client: Ashland Inc. Job Number: 680-58129-1

QCtAssociaaioetSommary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:680-170470					
LCS 680-170470/4	Lab Control Sample	T	Water	8260B	
LCSD 680-170470/5	Lab Control Sample Duplicate	T	Water	8260B	
680-58129-1	MW-54D (52810)	T	Water	8260B	
680-58129-1MS	Matrix Spike	T	Water	8260B	
680-58129-1MSD	Matrix Spike Duplicate	T	Water	8260B	
680-58129-2FD	MW-54DD (52810)	T	Water	8260B	
680-58129-3EB	EQPT. BLANK (52810)	T	Water	8260B	
680-58129-4	MW-54I (52810)	T	Water	8260B	
680-58129-5	MW-54S (52810)	T	Water	8260B	
680-58129-6TB	TRIP BLANK	T	Water	8260B	

Report Basis

T = Total

Client: Ashland Inc. Job Number: 680-58129-1

QCtAssociaaioetSommary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 680-170233					
LCS 680-170233/27-A	Lab Control Sample	T	Water	3520C	
MB 680-170233/19-A	Method Blank	T	Water	3520C	
680-58129-1	MW-54D (52810)	T	Water	3520C	
680-58129-1MS	Matrix Spike	T	Water	3520C	
680-58129-1MSD	Matrix Spike Duplicate	T	Water	3520C	
680-58129-2FD	MW-54DD (52810)	T	Water	3520C	
680-58129-4	MW-54I (52810)	T	Water	3520C	
680-58129-5	MW-54S (52810)	T	Water	3520C	
Analysis Batch:680-170425					
LCS 680-170233/27-A	Lab Control Sample	T	Water	8081A_8082	680-170233
MB 680-170233/19-A	Method Blank	T	Water	8081A_8082	680-170233
680-58129-1	MW-54D (52810)	T	Water	8081A_8082	680-170233
680-58129-1MS	Matrix Spike	T	Water	8081A_8082	680-170233
680-58129-1MSD	Matrix Spike Duplicate	T	Water	8081A_8082	680-170233
680-58129-2FD	MW-54DD (52810)	T	Water	8081A_8082	680-170233
680-58129-4	MW-54I (52810)	T	Water	8081A_8082	680-170233
680-58129-5	MW-54S (52810)	T	Water	8081A_8082	680-170233
Analysis Batch:680-170426					
LCS 680-170233/27-A	Lab Control Sample	T	Water	8081A_8082	680-170233
MB 680-170233/19-A	Method Blank	T	Water	8081A_8082	680-170233
680-58129-1	MW-54D (52810)	T	Water	8081B/8082A	680-170233
680-58129-1MS	Matrix Spike	T	Water	8081B/8082A	680-170233
680-58129-1MSD	Matrix Spike Duplicate	T	Water	8081B/8082A	680-170233
680-58129-2FD	MW-54DD (52810)	T	Water	8081B/8082A	680-170233
680-58129-4	MW-54I (52810)	T	Water	8081B/8082A	680-170233
680-58129-5	MW-54S (52810)	T	Water	8081B/8082A	680-170233

Report Basis

T = Total

Client: Ashland Inc. Job Number: 680-58129-1

QCtAssociaaioetSommary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 680-170586					
LCS 680-170586/17-A	Lab Control Sample	R	Water	3005A	
MB 680-170586/16-A	Method Blank	R	Water	3005A	
680-58129-1	MW-54D (52810)	R	Water	3005A	
680-58129-1MS	Matrix Spike	R	Water	3005A	
680-58129-1MSD	Matrix Spike Duplicate	R	Water	3005A	
680-58129-2FD	MW-54DD (52810)	R	Water	3005A	
680-58129-4	MW-54I (52810)	R	Water	3005A	
680-58129-5	MW-54S (52810)	R	Water	3005A	
Analysis Batch:680-170841					
LCS 680-170586/17-A	Lab Control Sample	R	Water	6010B	680-170586
MB 680-170586/16-A	Method Blank	R	Water	6010B	680-170586
680-58129-1	MW-54D (52810)	R	Water	6010B	680-170586
680-58129-1MS	Matrix Spike	R	Water	6010B	680-170586
680-58129-1MSD	Matrix Spike Duplicate	R	Water	6010B	680-170586
680-58129-2FD	MW-54DD (52810)	R	Water	6010B	680-170586
680-58129-4	MW-54I (52810)	R	Water	6010B	680-170586
680-58129-5	MW-54S (52810)	R	Water	6010B	680-170586
Prep Batch: 680-171056					
LCS 680-171056/24-A	Lab Control Sample	T	Water	7470A	
MB 680-171056/23-A	Method Blank	T	Water	7470A	
680-58129-1	MW-54D (52810)	T	Water	7470A	
680-58129-1MS	Matrix Spike	T	Water	7470A	
680-58129-1MSD	Matrix Spike Duplicate	T	Water	7470A	
680-58129-2FD	MW-54DD (52810)	T	Water	7470A	
680-58129-4	MW-54I (52810)	T	Water	7470A	
680-58129-5	MW-54S (52810)	T	Water	7470A	
Analysis Batch:680-171231					
LCS 680-171056/24-A	Lab Control Sample	T	Water	7470A	680-171056
MB 680-171056/23-A	Method Blank	T	Water	7470A	680-171056
680-58129-1	MW-54D (52810)	T	Water	7470A	680-171056
680-58129-1MS	Matrix Spike	T	Water	7470A	680-171056
680-58129-1MSD	Matrix Spike Duplicate	T	Water	7470A	680-171056
680-58129-2FD	MW-54DD (52810)	T	Water	7470A	680-171056
680-58129-4	MW-54I (52810)	T	Water	7470A	680-171056
680-58129-5	MW-54S (52810)	T	Water	7470A	680-171056

Report Basis

R = Total Recoverable

T = Total

Client: Ashland Inc. Job Number: 680-58129-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

L- i eS- : pNetD	Client Wam4le IB	BFB %Rec	DBFM %Rec	TOL %Rec
680-58129-1	MW-54D (52810)	97	80	98
680-58129-2	MW-54DD (52810)	102	83	98
680-58129-3	EQPT. BLANK (52810)	93	93	95
680-58129-4	MW-54I (52810)	99	84	99
680-58129-5	MW-54S (52810)	99	83	96
680-58129-6	TRIP BLANK	93	92	96
LCS 680-170470/4		100	97	95
LCSD 680-170470/5		96	96	95
680-58129-1 MS	MW-54D (52810) MS	100	95	99
680-58129-1 MSD	MW-54D (52810) MSD	100	91	98

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene	75-120
DBFM = Dibromofluoromethane	75-121
TOL = Toluene-d8 (Surr)	75-120

Client: Ashland Inc. Job Number: 680-58129-1

Surrogate Recovery Report

8081A_8082_Organochlorine Pesticides & PCBs (GC)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCB1 %Rec	TCX1 %Rec
680-58129-1	MW-54D (52810)	33	144X
680-58129-2	MW-54DD (52810)	65	52
680-58129-4	MW-54I (52810)	73	132X
680-58129-5	MW-54S (52810)	67	73
MB 680-170233/19-A		105	68
MB 680-170233/19-A		105	68
LCS 680-170233/27-A		137X	74
LCS 680-170233/27-A		137X	74
680-58129-1 MS	MW-54D (52810) MS	101	118
680-58129-1 MSD	MW-54D (52810) MSD	120X	114

Surrogate	Acceptance Limits
DCB = DCB Decachlorobiphenyl	14-115
TCX = Tetrachloro-m-xylene	35-120

Client: Ashland Inc. Job Number: 680-58129-1

Surrogate Recovery Report

8081B/8082A Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCB1 %Rec	TCX1 %Rec
680-58129-1	MW-54D (52810)	33	144X
680-58129-2	MW-54DD (52810)	65	52
680-58129-4	MW-54I (52810)	73	132X
680-58129-5	MW-54S (52810)	67	73
680-58129-1 MS	MW-54D (52810) MS	101	118
680-58129-1 MSD	MW-54D (52810) MSD	120X	114

Surrogate	Acceptance Limits
DCB = DCB Decachlorobiphenyl	14-115
TCX = Tetrachloro-m-xylene	35-120

Client: Ashland Inc. Job Number: 680-58129-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-170470

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 680-170470/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/03/2010 0858
Date Prepared: 06/03/2010 0858

Analysis Batch: 680-170470
Prep Batch: N/A
Units: ug/L

Instrument ID: MSO2
Lab File ID: oq660.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

LCSD Lab Sample ID: LCSD 680-170470/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/03/2010 0941
Date Prepared: 06/03/2010 0941

Analysis Batch: 680-170470
Prep Batch: N/A
Units: ug/L

Instrument ID: MSO2
Lab File ID: oq662.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	104	101	17 - 175	3	50		
Benzene	97	96	77 - 119	1	30		
Bromoform	102	100	62 - 133	2	30		
Bromomethane	112	113	12 - 184	1	50		
2-Butanone (MEK)	104	102	33 - 157	2	30		
Carbon disulfide	96	96	55 - 131	0	30		
Carbon tetrachloride	99	98	71 - 135	2	30		
Chlorobenzene	105	105	85 - 116	0	30		
Chlorodibromomethane	112	109	75 - 133	2	30		
Chloroethane	96	92	40 - 165	4	50		
Chloroform	107	104	82 - 120	3	30		
Chloromethane	101	99	48 - 142	2	50		
cis-1,3-Dichloropropene	108	108	76 - 126	0	30		
1,2-Dibromo-3-Chloropropane	90	105	49 - 140	15	30		
Dibromomethane	98	99	78 - 119	2	30		
Dichlorobromomethane	94	95	78 - 127	1	30		
Dichlorodifluoromethane	97	88	34 - 154	9	30		
1,1-Dichloroethane	95	94	74 - 127	2	30		
1,2-Dichloroethane	99	100	66 - 132	0	30		
1,1-Dichloroethene	99	97	62 - 141	1	30		
1,2-Dichloropropane	99	99	73 - 124	0	30		
Ethylbenzene	92	92	86 - 116	0	30		
Ethylene Dibromide	96	98	80 - 121	2	30		
2-Hexanone	106	102	34 - 161	3	30		
Methylene Chloride	105	105	70 - 125	0	30		
4-Methyl-2-pentanone (MIBK)	101	99	40 - 151	2	30		
Styrene	102	101	82 - 122	2	30		
1,1,1,2-Tetrachloroethane	102	101	81 - 128	0	30		
1,1,2,2-Tetrachloroethane	103	102	69 - 129	2	30		
Tetrachloroethene	93	92	76 - 126	1	30		
Toluene	96	98	81 - 117	1	30		
trans-1,2-Dichloroethene	106	104	72 - 131	2	30		
trans-1,3-Dichloropropene	93	93	73 - 128	0	30		
1,1,1-Trichloroethane	94	95	76 - 127	1	30		

Client: Ashland Inc. Job Number: 680-58129-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-170470

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-170470/4	Analysis Batch:	680-170470	Instrument ID:	MSO2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	oq660.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/03/2010 0858			Final Weight/Volume:	5 mL
Date Prepared:	06/03/2010 0858				

LCSD Lab Sample ID:	LCSD 680-170470/5	Analysis Batch:	680-170470	Instrument ID:	MSO2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	oq662.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/03/2010 0941			Final Weight/Volume:	5 mL
Date Prepared:	06/03/2010 0941				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,1,2-Trichloroethane	98	97	75 - 121	1	30		
Trichloroethene	93	94	84 - 115	2	30		
Trichlorofluoromethane	101	98	58 - 149	3	50		
1,2,3-Trichloropropane	98	94	70 - 130	4	30		
Vinyl acetate	105	100	10 - 217	5	30		
Vinyl chloride	94	95	59 - 144	1	50		
Xylenes, Total	105	103	84 - 118	1	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	100	96	75 - 120
Dibromofluoromethane	97	96	75 - 121
Toluene-d8 (Surr)	95	95	75 - 120

Client: Ashland Inc. Job Number: 680-58129-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 680-170470

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-170470/4	Units:	ug/L	LCSD Lab Sample ID:	LCSD 680-170470/5
Client Matrix:	W- r A			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Date Analyzed:	06/03/2010 0858			Date Analyzed:	06/03/2010 0941
Date Prepared:	06/03/2010 0858			Date Prepared:	06/03/2010 0941

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Acetone	100	100	104	101
Benzene	50.0	50.0	48.4	48.2
Bromoform	50.0	50.0	51.0	49.8
Bromomethane	50.0	50.0	56.2	56.7
2-Butanone (MEK)	100	100	104	102
Carbon disulfide	50.0	50.0	48.1	48.1
Carbon tetrachloride	50.0	50.0	49.7	49.0
Chlorobenzene	50.0	50.0	52.5	52.6
Chlorodibromomethane	50.0	50.0	55.8	54.7
Chloroethane	50.0	50.0	47.9	46.2
Chloroform	50.0	50.0	53.7	52.2
Chloromethane	50.0	50.0	50.5	49.7
cis-1,3-Dichloropropene	50.0	50.0	53.8	53.9
1,2-Dibromo-3-Chloropropane	50.0	50.0	45.1	52.6
Dibromomethane	50.0	50.0	48.9	49.6
Dichlorobromomethane	50.0	50.0	46.8	47.4
Dichlorodifluoromethane	50.0	50.0	48.3	43.9
1,1-Dichloroethane	50.0	50.0	47.7	46.9
1,2-Dichloroethane	50.0	50.0	49.7	49.8
1,1-Dichloroethene	50.0	50.0	49.4	48.7
1,2-Dichloropropane	50.0	50.0	49.6	49.7
Ethylbenzene	50.0	50.0	46.1	46.2
Ethylene Dibromide	50.0	50.0	48.0	48.9
2-Hexanone	100	100	106	102
Methylene Chloride	50.0	50.0	52.5	52.4
4-Methyl-2-pentanone (MIBK)	100	100	101	99.3
Styrene	50.0	50.0	51.1	50.4
1,1,1,2-Tetrachloroethane	50.0	50.0	50.9	50.7
1,1,2,2-Tetrachloroethane	50.0	50.0	51.6	50.8
Tetrachloroethene	50.0	50.0	46.4	46.0
Toluene	50.0	50.0	48.1	48.8
trans-1,2-Dichloroethene	50.0	50.0	53.2	52.1
trans-1,3-Dichloropropene	50.0	50.0	46.5	46.3
1,1,1-Trichloroethane	50.0	50.0	47.1	47.7
1,1,2-Trichloroethane	50.0	50.0	48.8	48.3
Trichloroethene	50.0	50.0	46.3	47.1
Trichlorofluoromethane	50.0	50.0	50.6	49.0
1,2,3-Trichloropropane	50.0	50.0	49.2	47.1
Vinyl acetate	100	100	105	100
Vinyl chloride	50.0	50.0	47.2	47.6
Xylenes, Total	150	150	157	155

Client: Ashland Inc. Job Number: 680-58129-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-170470

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	680-58129-1	Analysis Batch:	680-170470	Instrument ID:	MSO2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	o2026.d
Dilution:	1.0			Initial Weight/Volume:	5 mL
Date Analyzed:	06/03/2010 1735			Final Weight/Volume:	5 mL
Date Prepared:	06/03/2010 1735				

MSD Lab Sample ID:	680-58129-1	Analysis Batch:	680-170470	Instrument ID:	MSO2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	o2028.d
Dilution:	1.0			Initial Weight/Volume:	5 mL
Date Analyzed:	06/03/2010 1804			Final Weight/Volume:	5 mL
Date Prepared:	06/03/2010 1804				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acetone	93	99	17 - 175	6	50		
Benzene	-16	-19	77 - 119	1	30	F	F
Bromoform	98	101	62 - 133	3	30		
Bromomethane	105	113	12 - 184	7	50		
2-Butanone (MEK)	101	96	33 - 157	5	30		
Carbon disulfide	94	90	55 - 131	4	30		
Carbon tetrachloride	98	98	71 - 135	0	30		
Chlorobenzene	-30	-29	85 - 116	0	30	F	F
Chlorodibromomethane	109	110	75 - 133	0	30		
Chloroethane	96	96	40 - 165	0	50		
Chloroform	102	99	82 - 120	3	30		
Chloromethane	107	97	48 - 142	10	50		
cis-1,3-Dichloropropene	109	109	76 - 126	0	30		
1,2-Dibromo-3-Chloropropane	99	112	49 - 140	13	30		
Dibromomethane	103	106	78 - 119	3	30		
Dichlorobromomethane	98	99	78 - 127	1	30		
Dichlorodifluoromethane	69	65	34 - 154	6	30		
1,1-Dichloroethane	93	89	74 - 127	5	30		
1,2-Dichloroethane	105	105	66 - 132	1	30		
1,1-Dichloroethene	94	88	62 - 141	6	30		
1,2-Dichloropropane	108	104	73 - 124	4	30		
Ethylbenzene	69	67	86 - 116	1	30	F	F
Ethylene Dibromide	103	103	80 - 121	0	30		
2-Hexanone	104	104	34 - 161	0	30		
Methylene Chloride	80	78	70 - 125	2	30		
4-Methyl-2-pentanone (MIBK)	114	112	40 - 151	2	30		
Styrene	105	103	82 - 122	1	30		
1,1,1,2-Tetrachloroethane	100	100	81 - 128	0	30		
1,1,2,2-Tetrachloroethane	106	107	69 - 129	0	30		
Tetrachloroethene	90	88	76 - 126	2	30		
Toluene	91	88	81 - 117	2	30		
trans-1,2-Dichloroethene	104	100	72 - 131	4	30		

Client: Ashland Inc. Job Number: 680-58129-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-170470

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	680-58129-1	Analysis Batch:	680-170470	Instrument ID:	MSO2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	o2026.d
Dilution:	1.0			Initial Weight/Volume:	5 mL
Date Analyzed:	06/03/2010 1735			Final Weight/Volume:	5 mL
Date Prepared:	06/03/2010 1735				

MSD Lab Sample ID:	680-58129-1	Analysis Batch:	680-170470	Instrument ID:	MSO2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	o2028.d
Dilution:	1.0			Initial Weight/Volume:	5 mL
Date Analyzed:	06/03/2010 1804			Final Weight/Volume:	5 mL
Date Prepared:	06/03/2010 1804				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
trans-1,3-Dichloropropene	95	95	73 - 128	1	30		
1,1,1-Trichloroethane	96	95	76 - 127	1	30		
1,1,2-Trichloroethane	108	106	75 - 121	2	30		
Trichloroethene	95	92	84 - 115	3	30		
Trichlorofluoromethane	106	98	58 - 149	8	50		
1,2,3-Trichloropropane	99	101	70 - 130	2	30		
Vinyl acetate	105	100	10 - 217	4	30		
Vinyl chloride	99	94	59 - 144	4	50		
Xylenes, Total	3	4	84 - 118	1	30	F	F

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
4-Bromofluorobenzene	100	100	75 - 120
Dibromofluoromethane	95	91	75 - 121
Toluene-d8 (Surr)	99	98	75 - 120

Client: Ashland Inc. Job Number: 680-58129-1

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 680-170470

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	680-58129-1	Units: ug/L	MSD Lab Sample ID:	680-58129-1	
Client Matrix:	W- r A		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Date Analyzed:	06/03/2010 1735		Date Analyzed:	06/03/2010 1804	
Date Prepared:	06/03/2010 1735		Date Prepared:	06/03/2010 1804	

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Acetone	50	U	100	100	93.3		99.4	
Benzene	110		50.0	50.0	105	F	103	F
Bromoform	2.0	U	50.0	50.0	49.2		50.5	
Bromomethane	2.0	U	50.0	50.0	52.6		56.3	
2-Butanone (MEK)	20	U	100	100	101		96.4	
Carbon disulfide	4.0	U	50.0	50.0	46.9		45.2	
Carbon tetrachloride	2.0	U	50.0	50.0	49.2		49.2	
Chlorobenzene	170		50.0	50.0	160	F	160	F
Chlorodibromomethane	2.0	U	50.0	50.0	54.7		54.8	
Chloroethane	2.0	U	50.0	50.0	48.1		48.1	
Chloroform	1.7	J	50.0	50.0	52.7		51.1	
Chloromethane	2.0	U	50.0	50.0	53.6		48.7	
cis-1,3-Dichloropropene	2.0	U	50.0	50.0	54.7		54.7	
1,2-Dibromo-3-Chloropropane	2.0	U	50.0	50.0	49.6		56.2	
Dibromomethane	2.0	U	50.0	50.0	51.7		53.2	
Dichlorobromomethane	2.0	U	50.0	50.0	49.0		49.5	
Dichlorodifluoromethane	2.0	U	50.0	50.0	34.6		32.6	
1,1-Dichloroethane	0.61	J	50.0	50.0	47.3		45.0	
1,2-Dichloroethane	2.9		50.0	50.0	55.5		55.2	
1,1-Dichloroethene	0.61	J	50.0	50.0	47.7		44.8	
1,2-Dichloropropane	2.0	U	50.0	50.0	53.8		51.8	
Ethylbenzene	32		50.0	50.0	66.0	F	65.3	F
Ethylene Dibromide	2.0	U	50.0	50.0	51.5		51.7	
2-Hexanone	20	U	100	100	104		104	
Methylene Chloride	17		50.0	50.0	57.5		56.4	
4-Methyl-2-pentanone (MIBK)	20	U	100	100	114		112	
Styrene	2.0	U	50.0	50.0	52.4		51.6	
1,1,1,2-Tetrachloroethane	2.0	U	50.0	50.0	50.0		50.1	
1,1,2,2-Tetrachloroethane	2.0	U	50.0	50.0	53.2		53.4	
Tetrachloroethene	0.59	J	50.0	50.0	45.4		44.7	
Toluene	13		50.0	50.0	58.1		56.8	
trans-1,2-Dichloroethene	2.0	U	50.0	50.0	51.9		50.1	
trans-1,3-Dichloropropene	2.0	U	50.0	50.0	47.7		47.4	
1,1,1-Trichloroethane	2.0	U	50.0	50.0	48.0		47.4	
1,1,2-Trichloroethane	2.0	U	50.0	50.0	53.8		52.9	
Trichloroethene	0.70	J	50.0	50.0	48.0		46.8	
Trichlorofluoromethane	2.0	U	50.0	50.0	52.9		49.0	
1,2,3-Trichloropropane	2.0	U	50.0	50.0	49.6		50.5	
Vinyl acetate	4.0	U	100	100	105		100	
Vinyl chloride	2.0	U	50.0	50.0	49.3		47.1	
Xylenes, Total	320		150	150	327	F	329	F

Client: Ashland Inc. Job Number: 680-58129-1

Method Blank - Batch: 680-170233

Method: 8081A_8082
Preparation: 3520C

Lab Sample ID: MB 680-170233/19-A
Client Matrix: W- r A
Dilution: 1.0
Date Analyzed: 06/03/2010 0044
Date Prepared: 06/01/2010 1533

Analysis Batch: 680-170425
Prep Batch: 680-170233
Units: ug/L

Instrument ID: SGJ
Lab File ID: jf02041.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
Toxaphene, Total	5.0	U	0.50	5.0
Toxaphene, Technical	5.0	U	0.50	5.0

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	105	14 - 115
DCB Decachlorobiphenyl	105	14 - 115
Tetrachloro-m-xylene	68	35 - 120
Tetrachloro-m-xylene	68	35 - 120

Lab Control Sample - Batch: 680-170233

Method: 8081A_8082
Preparation: 3520C

Lab Sample ID: LCS 680-170233/27-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/03/2010 0107
Date Prepared: 06/01/2010 1533

Analysis Batch: 680-170425
Prep Batch: 680-170233
Units: ug/L

Instrument ID: SGJ
Lab File ID: jf02042.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Toxaphene, Total	10.0	6.19	62	30 - 120	
Toxaphene, Technical	10.0	6.47	65	30 - 120	

Surrogate	% Rec		Acceptance Limits
DCB Decachlorobiphenyl	137	X	14 - 115
DCB Decachlorobiphenyl	137	X	14 - 115
Tetrachloro-m-xylene	74		35 - 120
Tetrachloro-m-xylene	74		35 - 120

Client: Ashland Inc. Job Number: 680-58129-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-170233

Method: 8081A_8082
Preparation: 3520C

MS Lab Sample ID:	680-58129-1	Analysis Batch: 680-170425	Instrument ID: SGJ
Client Matrix:	Water	Prep Batch: 680-170233	Lab File ID: jf02047.d
Dilution:	1.0		Initial Weight/Volume: 1030 mL
Date Analyzed:	06/03/2010 0302		Final Weight/Volume: 10 mL
Date Prepared:	06/01/2010 1533		Injection Volume: 2 uL
			Column ID: PRIMARY

MSD Lab Sample ID:	680-58129-1	Analysis Batch: 680-170425	Instrument ID: SGJ
Client Matrix:	Water	Prep Batch: 680-170233	Lab File ID: jf02048.d
Dilution:	1.0		Initial Weight/Volume: 1060 mL
Date Analyzed:	06/03/2010 0324		Final Weight/Volume: 10 mL
Date Prepared:	06/01/2010 1533		Injection Volume: 2 uL
			Column ID: PRIMARY

	% Rec.					
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual MSD Qual
Toxaphene, Total	166	97	30 - 120	26	40	F

Surrogate	MS % Rec	MSD % Rec		Acceptance Limits
DCB Decachlorobiphenyl	101	120	X	14 - 115
Tetrachloro-m-xylene	118	114		35 - 120

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 680-170233

Method: 8081A_8082
Preparation: 3520C

MS Lab Sample ID:	680-58129-1	Units: ug/L	MSD Lab Sample ID: 680-58129-1
Client Matrix:	Water		Client Matrix: Water
Dilution:	1.0		Dilution: 1.0
Date Analyzed:	06/03/2010 0302		Date Analyzed: 06/03/2010 0324
Date Prepared:	06/01/2010 1533		Date Prepared: 06/01/2010 1533

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Toxaphene, Total	6.9	4.85	4.72	14.9 F	11.5

Client: Ashland Inc. Job Number: 680-58129-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-170233

Method: 8081B/8082A
Preparation: 3520C

MS Lab Sample ID:	680-58129-1	Analysis Batch: 680-170426	Instrument ID: SGJ
Client Matrix:	Water	Prep Batch: 680-170233	Lab File ID: jf02047.d
Dilution:	1.0		Initial Weight/Volume: 1030 mL
Date Analyzed:	06/03/2010 0302		Final Weight/Volume: 10 mL
Date Prepared:	06/01/2010 1533		Injection Volume: 2 uL
			Column ID: PRIMARY

MSD Lab Sample ID:	680-58129-1	Analysis Batch: 680-170426	Instrument ID: SGJ
Client Matrix:	Water	Prep Batch: 680-170233	Lab File ID: jf02048.d
Dilution:	1.0		Initial Weight/Volume: 1060 mL
Date Analyzed:	06/03/2010 0324		Final Weight/Volume: 10 mL
Date Prepared:	06/01/2010 1533		Injection Volume: 2 uL
			Column ID: PRIMARY

	% Rec.					
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Toxaphene, Technical	144	142	30 - 120	4	40	F	F

Surrogate	MS % Rec	MSD % Rec		Acceptance Limits
DCB Decachlorobiphenyl	101	120	X	14 - 115
Tetrachloro-m-xylene	118	114		35 - 120

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 680-170233

Method: 8081B/8082A
Preparation: 3520C

MS Lab Sample ID:	680-58129-1	Units: ug/L	MSD Lab Sample ID: 680-58129-1
Client Matrix:	Water		Client Matrix: Water
Dilution:	1.0		Dilution: 1.0
Date Analyzed:	06/03/2010 0302		Date Analyzed: 06/03/2010 0324
Date Prepared:	06/01/2010 1533		Date Prepared: 06/01/2010 1533

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Toxaphene, Technical	4.7	U	4.85	4.72	6.99	F	6.69	F

Client: Ashland Inc.

Job Number: 680-58129-1

Method Blank - Batch: 680-170586

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID: MB 680-170586/16-A
Client Matrix: W- r A
Dilution: 1.0
Date Analyzed: 06/08/2010 0455
Date Prepared: 06/04/2010 1143

Analysis Batch: 680-170841
Prep Batch: 680-170586
Units: ug/L

Instrument ID: ICPD
Lab File ID: 060710.chr
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Antimony	20	U	5.2	20
Arsenic	20	U	10	20
Barium	10	U	2.0	10
Beryllium	4.0	U	0.10	4.0
Cadmium	5.0	U	2.0	5.0
Chromium	10	U	2.0	10
Cobalt	10	U	1.0	10
Copper	20	U	5.0	20
Lead	10	U	3.4	10
Nickel	40	U	4.0	40
Selenium	20	U	6.4	20
Silver	10	U	0.97	10
Thallium	25	U	8.7	25
Tin	50	U	5.4	50
Vanadium	10	U	3.0	10
Zinc	20	U	6.3	20

Client: Ashland Inc.

Job Number: 680-58129-1

Lab Control Sample - Batch: 680-170586

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID: LCS 680-170586/17-A
Client Matrix: W- r A
Dilution: 1.0
Date Analyzed: 06/08/2010 0500
Date Prepared: 06/04/2010 1143

Analysis Batch: 680-170841
Prep Batch: 680-170586
Units: ug/L

Instrument ID: ICPD
Lab File ID: 060710.chr
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Antimony	500	515	103	75 - 125	
Arsenic	2000	2060	103	75 - 125	
Barium	2000	2060	103	75 - 125	
Beryllium	50.0	49.9	100	75 - 125	
Cadmium	50.0	49.8	100	75 - 125	
Chromium	200	205	102	75 - 125	
Cobalt	500	513	103	75 - 125	
Copper	250	261	104	75 - 125	
Lead	500	517	103	75 - 125	
Nickel	500	508	102	75 - 125	
Selenium	2000	2060	103	75 - 125	
Silver	50.0	50.9	102	75 - 125	
Thallium	2000	2070	103	75 - 125	
Tin	1000	988	99	75 - 125	
Vanadium	500	515	103	75 - 125	
Zinc	500	521	104	75 - 125	

Client: Ashland Inc. Job Number: 680-58129-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-170586

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	680-58129-1	Analysis Batch:	680-170841	Instrument ID:	ICPD
Client Matrix:	Water	Prep Batch:	680-170586	Lab File ID:	060710.chr
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	06/08/2010 0625			Final Weight/Volume:	50 mL
Date Prepared:	06/04/2010 1143				

MSD Lab Sample ID:	680-58129-1	Analysis Batch:	680-170841	Instrument ID:	ICPD
Client Matrix:	Water	Prep Batch:	680-170586	Lab File ID:	060710.chr
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	06/08/2010 0630			Final Weight/Volume:	50 mL
Date Prepared:	06/04/2010 1143				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Antimony	105	110	75 - 125	5	20		
Arsenic	105	109	75 - 125	4	20		
Barium	101	105	75 - 125	3	20		
Beryllium	97	102	75 - 125	4	20		
Cadmium	96	100	75 - 125	4	20		
Chromium	100	104	75 - 125	4	20		
Cobalt	99	103	75 - 125	4	20		
Copper	106	110	75 - 125	4	20		
Lead	101	105	75 - 125	4	20		
Nickel	97	101	75 - 125	4	20		
Selenium	105	109	75 - 125	4	20		
Silver	105	108	75 - 125	3	20		
Thallium	103	107	75 - 125	4	20		
Tin	99	103	75 - 125	4	20		
Vanadium	102	106	75 - 125	4	20		
Zinc	100	104	75 - 125	4	20		

Client: Ashland Inc.

Job Number: 680-58129-1

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 680-170586

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	680-58129-1	Units: ug/L	MSD Lab Sample ID: 680-58129-1
Client Matrix:	W- r A		Client Matrix: Water
Dilution:	1.0		Dilution: 1.0
Date Analyzed:	06/08/2010 0625		Date Analyzed: 06/08/2010 0630
Date Prepared:	06/04/2010 1143		Date Prepared: 06/04/2010 1143

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Antimony	20	U	500	500	527	552
Arsenic	20	U	2000	2000	2100	2190
Barium	580		2000	2000	2600	2680
Beryllium	0.15	J	50.0	50.0	48.8	50.9
Cadmium	5.0	U	50.0	50.0	48.0	50.1
Chromium	10	U	200	200	199	207
Cobalt	10	U	500	500	496	516
Copper	20	U	250	250	264	274
Lead	10	U	500	500	503	525
Nickel	40	U	500	500	485	503
Selenium	20	U	2000	2000	2100	2180
Silver	10	U	50.0	50.0	52.4	54.1
Thallium	25	U	2000	2000	2060	2140
Tin	50	U	1000	1000	991	1030
Vanadium	10	U	500	500	508	529
Zinc	9.1	J	500	500	507	529

Client: Ashland Inc. Job Number: 680-58129-1

Method Blank - Batch: 680-171056

Method: 7470A
Preparation: 7470A

Lab Sample ID: MB 680-171056/23-A
Client Matrix: W- r A
Dilution: 1.0
Date Analyzed: 06/10/2010 1928
Date Prepared: 06/09/2010 1703

Analysis Batch: 680-171231
Prep Batch: 680-171056
Units: ug/L

Instrument ID: LEEMAN1
Lab File ID: b061010.chr
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Mercury	0.20	U	0.091	0.20

Lab Control Sample - Batch: 680-171056

Method: 7470A
Preparation: 7470A

Lab Sample ID: LCS 680-171056/24-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/10/2010 1931
Date Prepared: 06/09/2010 1703

Analysis Batch: 680-171231
Prep Batch: 680-171056
Units: ug/L

Instrument ID: LEEMAN1
Lab File ID: b061010.chr
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	2.50	2.42	97	80 - 120	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-171056

Method: 7470A
Preparation: 7470A

MS Lab Sample ID: 680-58129-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/10/2010 1937
Date Prepared: 06/09/2010 1703

Analysis Batch: 680-171231
Prep Batch: 680-171056

Instrument ID: LEEMAN1
Lab File ID: b061010.chr
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 680-58129-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/10/2010 1940
Date Prepared: 06/09/2010 1703

Analysis Batch: 680-171231
Prep Batch: 680-171056

Instrument ID: LEEMAN1
Lab File ID: b061010.chr
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury	120	109	80 - 120	9	20		

Client: Ashland Inc.

Job Number: 680-58129-1

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 680-171056

Method: 7470A
Preparation: 7470A

MS Lab Sample ID:	680-58129-1	Units: ug/L	MSD Lab Sample ID:	680-58129-1	
Client Matrix:	W- r A		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Date Analyzed:	06/10/2010 1937		Date Analyzed:	06/10/2010 1940	
Date Prepared:	06/09/2010 1703		Date Prepared:	06/09/2010 1703	

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Mercury	0.20	U	1.00	1.00	1.20	1.09

Client: Ashland Inc. Job Number: 680-58129-1

Laboratory Chronicle

Lab ID: 680-58129-1 **Client ID: MW-54D (52810)**

Sample Date/Time: 05/28/2010 11:15 Received Date/Time: 05/29/2010 13:18

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58129-E-1		680-170470		06/03/2010 13:17	2	TAL SAV	JW
A:8260B	680-58129-E-1		680-170470		06/03/2010 13:17	2	TAL SAV	JW
P:3520C	680-58129-B-1-A		680-170425	680-170233	06/01/2010 15:33	1	TAL SAV	RBS
A:8081A_8082	680-58129-B-1-A		680-170425	680-170233	06/03/2010 01:30	1	TAL SAV	JK
P:3520C	680-58129-B-1-A		680-170426	680-170233	06/01/2010 15:33	1	TAL SAV	RBS
A:8081B/8082A	680-58129-B-1-A		680-170426	680-170233	06/03/2010 01:30	1	TAL SAV	JK
P:3005A	680-58129-C-1-A		680-170841	680-170586	06/04/2010 11:43	1	TAL SAV	RA
A:6010B	680-58129-C-1-A		680-170841	680-170586	06/08/2010 06:10	1	TAL SAV	BR
P:7470A	680-58129-A-1-C		680-171231	680-171056	06/09/2010 17:03	1	TAL SAV	DH
A:7470A	680-58129-A-1-C		680-171231	680-171056	06/10/2010 19:34	1	TAL SAV	CE

Lab ID: 680-58129-1 **Client ID: MW-54D (52810)**

Sample Date/Time: 05/28/2010 11:15 Received Date/Time: 05/29/2010 13:18

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58129-D-1 MS		680-170470		06/03/2010 17:35	1	TAL SAV	JW
A:8260B	680-58129-D-1 MS		680-170470		06/03/2010 17:35	1	TAL SAV	JW
P:3520C	680-58129-A-1-A MS		680-170425	680-170233	06/01/2010 15:33	1	TAL SAV	RBS
A:8081A_8082	680-58129-A-1-A MS		680-170425	680-170233	06/03/2010 03:02	1	TAL SAV	JK
P:3520C	680-58129-A-1-A MS		680-170426	680-170233	06/01/2010 15:33	1	TAL SAV	RBS
A:8081B/8082A	680-58129-A-1-A MS		680-170426	680-170233	06/03/2010 03:02	1	TAL SAV	JK
P:3005A	680-58129-C-1-B MS		680-170841	680-170586	06/04/2010 11:43	1	TAL SAV	RA
A:6010B	680-58129-C-1-B MS		680-170841	680-170586	06/08/2010 06:25	1	TAL SAV	BR
P:7470A	680-58129-A-1-D MS		680-171231	680-171056	06/09/2010 17:03	1	TAL SAV	DH
A:7470A	680-58129-A-1-D MS		680-171231	680-171056	06/10/2010 19:37	1	TAL SAV	CE

Client: Ashland Inc. Job Number: 680-58129-1

Laboratory Chronicle

Lab ID: 680-58129-1 **Client ID: MW-54D (52810)**

Sample Date/Time: 05/28/2010 11:15 Received Date/Time: 05/29/2010 13:18

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58129-D-1 MSD		680-170470		06/03/2010 18:04	1	TAL SAV	JW
A:8260B	680-58129-D-1 MSD		680-170470		06/03/2010 18:04	1	TAL SAV	JW
P:3520C	680-58129-A-1-B MSD		680-170425	680-170233	06/01/2010 15:33	1	TAL SAV	RBS
A:8081A_8082	680-58129-A-1-B MSD		680-170425	680-170233	06/03/2010 03:24	1	TAL SAV	JK
P:3520C	680-58129-A-1-B MSD		680-170426	680-170233	06/01/2010 15:33	1	TAL SAV	RBS
A:8081B/8082A	680-58129-A-1-B MSD		680-170426	680-170233	06/03/2010 03:24	1	TAL SAV	JK
P:3005A	680-58129-C-1-C MSD		680-170841	680-170586	06/04/2010 11:43	1	TAL SAV	RA
A:6010B	680-58129-C-1-C MSD		680-170841	680-170586	06/08/2010 06:30	1	TAL SAV	BR
P:7470A	680-58129-A-1-E MSD		680-171231	680-171056	06/09/2010 17:03	1	TAL SAV	DH
A:7470A	680-58129-A-1-E MSD		680-171231	680-171056	06/10/2010 19:40	1	TAL SAV	CE

Lab ID: 680-58129-2 **Client ID: MW-54DD (52810)**

Sample Date/Time: 05/28/2010 11:15 Received Date/Time: 05/29/2010 13:18

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58129-E-2		680-170470		06/03/2010 13:45	2	TAL SAV	JW
A:8260B	680-58129-E-2		680-170470		06/03/2010 13:45	2	TAL SAV	JW
P:3520C	680-58129-B-2-A		680-170425	680-170233	06/01/2010 15:33	1	TAL SAV	RBS
A:8081A_8082	680-58129-B-2-A		680-170425	680-170233	06/03/2010 01:53	1	TAL SAV	JK
P:3520C	680-58129-B-2-A		680-170426	680-170233	06/01/2010 15:33	1	TAL SAV	RBS
A:8081B/8082A	680-58129-B-2-A		680-170426	680-170233	06/03/2010 01:53	1	TAL SAV	JK
P:3005A	680-58129-C-2-A		680-170841	680-170586	06/04/2010 11:43	1	TAL SAV	RA
A:6010B	680-58129-C-2-A		680-170841	680-170586	06/08/2010 06:35	1	TAL SAV	BR
P:7470A	680-58129-A-2-A		680-171231	680-171056	06/09/2010 17:03	1	TAL SAV	DH
A:7470A	680-58129-A-2-A		680-171231	680-171056	06/10/2010 19:43	1	TAL SAV	CE

Lab ID: 680-58129-3 **Client ID: EQPT. BLANK (52810)**

Sample Date/Time: 05/28/2010 12:00 Received Date/Time: 05/29/2010 13:18

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58129-A-3		680-170470		06/03/2010 12:19	1	TAL SAV	JW
A:8260B	680-58129-A-3		680-170470		06/03/2010 12:19	1	TAL SAV	JW

Client: Ashland Inc. Job Number: 680-58129-1

Laboratory Chronicle

Lab ID: 680-58129-4 **Client ID: MW-54I (52810)**

Sample Date/Time: 05/28/2010 13:15 Received Date/Time: 05/29/2010 13:18

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58129-E-4		680-170470		06/03/2010 14:14	100	TAL SAV	JW
A:8260B	680-58129-E-4		680-170470		06/03/2010 14:14	100	TAL SAV	JW
P:3520C	680-58129-A-4-A		680-170425	680-170233	06/01/2010 15:33	1	TAL SAV	RBS
A:8081A_8082	680-58129-A-4-A		680-170425	680-170233	06/03/2010 02:16	1	TAL SAV	JK
P:3520C	680-58129-A-4-A		680-170426	680-170233	06/01/2010 15:33	1	TAL SAV	RBS
A:8081B/8082A	680-58129-A-4-A		680-170426	680-170233	06/03/2010 02:16	1	TAL SAV	JK
P:3005A	680-58129-C-4-A		680-170841	680-170586	06/04/2010 11:43	1	TAL SAV	RA
A:6010B	680-58129-C-4-A		680-170841	680-170586	06/08/2010 06:40	1	TAL SAV	BR
P:7470A	680-58129-A-4-B		680-171231	680-171056	06/09/2010 17:03	1	TAL SAV	DH
A:7470A	680-58129-A-4-B		680-171231	680-171056	06/10/2010 19:46	1	TAL SAV	CE

Lab ID: 680-58129-5 **Client ID: MW-54S (52810)**

Sample Date/Time: 05/28/2010 11:20 Received Date/Time: 05/29/2010 13:18

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58129-E-5		680-170470		06/03/2010 14:42	20	TAL SAV	JW
A:8260B	680-58129-E-5		680-170470		06/03/2010 14:42	20	TAL SAV	JW
P:3520C	680-58129-B-5-A		680-170425	680-170233	06/01/2010 15:33	1	TAL SAV	RBS
A:8081A_8082	680-58129-B-5-A		680-170425	680-170233	06/03/2010 02:39	1	TAL SAV	JK
P:3520C	680-58129-B-5-A		680-170426	680-170233	06/01/2010 15:33	1	TAL SAV	RBS
A:8081B/8082A	680-58129-B-5-A		680-170426	680-170233	06/03/2010 02:39	1	TAL SAV	JK
P:3005A	680-58129-C-5-A		680-170841	680-170586	06/04/2010 11:43	1	TAL SAV	RA
A:6010B	680-58129-C-5-A		680-170841	680-170586	06/08/2010 06:56	1	TAL SAV	BR
P:7470A	680-58129-A-5-A		680-171231	680-171056	06/09/2010 17:03	1	TAL SAV	DH
A:7470A	680-58129-A-5-A		680-171231	680-171056	06/10/2010 19:49	1	TAL SAV	CE

Lab ID: 680-58129-6 **Client ID: TRIP BLANK**

Sample Date/Time: 05/28/2010 00:00 Received Date/Time: 05/29/2010 13:18

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58129-B-6		680-170470		06/03/2010 12:48	1	TAL SAV	JW
A:8260B	680-58129-B-6		680-170470		06/03/2010 12:48	1	TAL SAV	JW

Client: Ashland Inc. Job Number: 680-58129-1

Laboratory Chronicle

Lab ID: MB **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3520C	MB 680-170233/19-A		680-170425	680-170233	06/01/2010 15:33	1	TAL SAV	RBS
P:3520C	MB 680-170233/19-A		680-170426	680-170233	06/01/2010 15:33	1	TAL SAV	RBS
A:8081A_8082	MB 680-170233/19-A		680-170425	680-170233	06/03/2010 00:44	1	TAL SAV	JK
A:8081A_8082	MB 680-170233/19-A		680-170426	680-170233	06/03/2010 00:44	1	TAL SAV	JK
P:3005A	MB 680-170586/16-A		680-170841	680-170586	06/04/2010 11:43	1	TAL SAV	RA
A:6010B	MB 680-170586/16-A		680-170841	680-170586	06/08/2010 04:55	1	TAL SAV	BR
P:7470A	MB 680-171056/23-A		680-171231	680-171056	06/09/2010 17:03	1	TAL SAV	DH
A:7470A	MB 680-171056/23-A		680-171231	680-171056	06/10/2010 19:28	1	TAL SAV	CE

Lab ID: LCS **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCS 680-170470/4		680-170470		06/03/2010 08:58	1	TAL SAV	JW
A:8260B	LCS 680-170470/4		680-170470		06/03/2010 08:58	1	TAL SAV	JW
P:3520C	LCS 680-170233/27-A		680-170425	680-170233	06/01/2010 15:33	1	TAL SAV	RBS
P:3520C	LCS 680-170233/27-A		680-170426	680-170233	06/01/2010 15:33	1	TAL SAV	RBS
A:8081A_8082	LCS 680-170233/27-A		680-170425	680-170233	06/03/2010 01:07	1	TAL SAV	JK
A:8081A_8082	LCS 680-170233/27-A		680-170426	680-170233	06/03/2010 01:07	1	TAL SAV	JK
P:3005A	LCS 680-170586/17-A		680-170841	680-170586	06/04/2010 11:43	1	TAL SAV	RA
A:6010B	LCS 680-170586/17-A		680-170841	680-170586	06/08/2010 05:00	1	TAL SAV	BR
P:7470A	LCS 680-171056/24-A		680-171231	680-171056	06/09/2010 17:03	1	TAL SAV	DH
A:7470A	LCS 680-171056/24-A		680-171231	680-171056	06/10/2010 19:31	1	TAL SAV	CE

Lab ID: LCSD **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCSD 680-170470/5		680-170470		06/03/2010 09:41	1	TAL SAV	JW
A:8260B	LCSD 680-170470/5		680-170470		06/03/2010 09:41	1	TAL SAV	JW

Lab References:

TAL SAV = TestAmerica Savannah

Serial Number 031449

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE: ASHLAND - BRUNSWICK	PROJECT NO.: J0984-850-9	PROJECT LOCATION (STATE): GA.	
TAL (LAB) PROJECT MANAGER: LYDIA GULIZIA	P.O. NUMBER: 4501206047	CONTRACT NO.: N/A	
CLIENT (SITE) PM: TIM HASSETT	CLIENT PHONE	CLIENT FAX	
CLIENT NAME: ASHLAND	CLIENT E-MAIL		
CLIENT ADDRESS: 2801 COOK ST. BRUNSWICK, GA.			
COMPANY CONTRACTING THIS WORK (if applicable): DELTA CONSULTANTS			

PAGE 1 OF 1

STANDARD REPORT DELIVERY ⊗
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE
NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 1

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: 8260B - VOC'S APP. 9	REQUIRED ANALYSIS: 8081A - TOXAPHENE 8082	REQUIRED ANALYSIS: 7470A - APP. 9 METALS	REQUIRED ANALYSIS: 6010B - MERCURY	REQUIRED ANALYSIS: PRESERVATIVE N/A	REQUIRED ANALYSIS: PRESERVATIVE N/A	REQUIRED ANALYSIS: PRESERVATIVE HNO3	NUMBER OF CONTAINERS SUBMITTED	REMARKS
5/28/10	1115	MW-54D (52810)	G	X											3	
	1115	MW-5400 (52810)													2	
	1120	(MS) ~~MW-54~~ MATRIX SPIKE (52810)													1	
	1120	(MSD) MATRIX SPIKE DUP. (52810)														
	1200	EQPT. BLANK (52810)														
	1315	MW-54I (52810)														
	1120	MW-54S (52810)														

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RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
BW Howell	5/28/10	1430						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
Mark Comer	5/29/10	0948	YES ○ NO ○		680-58129	5.0°C

TAL8240-680 (1207)

Login Sample Receipt Check List

Client: Ashland Inc.

Job Number: 680-58129-1

Login Number: 58129

List Source: TestAmerica Savannah

Creator: Conner, Keaton

List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	TB NOT LISTED
There are no discrepancies between the sample IDs on the containers and the COC.	False	RECEIVED VIALS ONLY FOR EB (-3)
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	received 1 MSD liter broken
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	N/A	
Sample Preservation Verified	True	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 680-58180-1

Job Description: Ashland Brunswick RFI GW June 2010

For:
Ashland Inc.
500 Hercules Road
Wilmington, DE 19894

Attention: Timothy Hassett

Approved for release.
Lidya Gulizia
Project Manager I
6/29/2010 12:44 PM

Lidya Gulizia
Project Manager I
lidya.gulizia@testamericainc.com
06/29/2010

cc: Kelley Baker
Mr. Leroy Bishop
Mr. Dennis Brunner
Ryan Cate
Mr. Tony Mancini
Ms. Charlene Rivard

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

Savannah Certifications and ID #s: A2LA: 0399.01; AL: 41450; ARDEQ: 88-0692; ARDOH; AZ: AZ0741; CA: 03217CA; CO; CT: PH0161; DE; FL: E87052; GA: 803; Guam; HI; IL: 200022; IN; IA: 353; KS: E-10322; KY EPPC: 90084; KY UST; LA DEQ: 30690; LA DHH: LA080008; ME: 2008022; MD: 250; MA: M-GA006; MI: 9925; MS; NFESC: 249; NV: GA00006; NJ: GA769; NM; NY: 10842; NC DWQ: 269; NC DHHS: 13701; PA: 68-00474; PR: GA00006; RI: LAO00244; SC: 98001001; TN: TN0296; TX: T104704185; USEPA: GA00006; VT: VT-87052; VA: 00302; WA; WV DEP: 094; WV DHHR: 9950 C; WI DNR: 999819810; WY/EPAR8: 8TMS-Q

TestAmerica Laboratories, Inc.
TestAmerica Savannah 5102 LaRoche Avenue, Savannah, GA 31404
Tel (912) 354-7858 Fax (912) 352-0165 www.testamericainc.com

ACCREDITED IN ACCORDANCE WITH nelac

Receipt
All samples were received in good condition within temperature requirements.

GC/MS VOA
Method(s) 8260B: A full list spike was utilized for this method. Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for four analytes to recover outside criteria for this method when a full list spike is utilized. The LCS associated with batch 170495 had one analytes outside control limits; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method(s) 8260B: A full list spike was utilized for this method. Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for four analytes to recover outside criteria for this method when a full list spike is utilized. The LCSD associated with batch 170611 had one analyte outside control limits; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

No other analytical or quality issues were noted.

GC Semi VOA
No analytical or quality issues were noted.

Comments
No additional comments.

METHOD SUMMARY

Client: Ashland Inc. Job Number: 680-58180-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL SAV	SW846 8260B	
Purge and Trap	TAL SAV		SW846 5030B
Organochlorine Pesticides & PCBs (GC)	TAL SAV	SW846 8081A_8082	
Liquid-Liquid Extraction (Continuous)	TAL SAV		SW846 3520C
Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography	TAL SAV	SW846 8081B/8082A	
Liquid-Liquid Extraction (Continuous)	TAL SAV		SW846 3520C

Lab References:

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Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Ashland Inc. Job Number: 680-58180-1

Method	Analyst	Analyst ID
SW846 8260B	Lanier, Carolyn	CL
SW846 8081A_8082	Hao, Lili	LH
SW846 8081B/8082A	Hao, Lili	LH

SAMPLE SUMMARY

Client: Ashland Inc. Job Number: 680-58180-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-58180-1	MW-5S	Water	06/01/2010 1455	06/02/2010 0929
680-58180-2	MW-4	Water	06/01/2010 1540	06/02/2010 0929
680-58180-3	MW-7	Water	06/01/2010 1345	06/02/2010 0929
680-58180-4	MW-5I	Water	06/01/2010 1500	06/02/2010 0929
680-58180-5TB	Trip Blank Lot 051110	Water	06/01/2010 0000	06/02/2010 0929

SAMPLE RESULTS

Client: Ashland Inc. Job Number: 680-58180-1

Client Sample ID: **MW-5S**

L8i e6S8A po eDm 680-58180-1 Date Sampled: 06/01/2010 1455
Client Matrix: Water Date Received: 06/02/2010 0929

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-170611	Instrument ID:	MSP2
Preparation:	5030B		Lab File ID:	p0058.d
Dilution:	1.0		Initial Weight/Volume:	5 mL
Date Analyzed:	06/04/2010 1907		Final Weight/Volume:	5 mL
Date Prepared:	06/04/2010 1907			

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	0.39	J	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U *	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	0.17	J	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-58180-1

Client Sample ID: **MW-5S**

L8i e6S8A po eDm 680-58180-1 Date Sampled: 06/01/2010 1455
Client Matrix: Water Date Received: 06/02/2010 0929

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-170611	Instrument ID:	MSP2
Preparation:	5030B		Lab File ID:	p0058.d
Dilution:	1.0		Initial Weight/Volume:	5 mL
Date Analyzed:	06/04/2010 1907		Final Weight/Volume:	5 mL
Date Prepared:	06/04/2010 1907			

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	97		75 - 120
Dibromofluoromethane	93		75 - 121
Toluene-d8 (Surr)	106		75 - 120

Client: Ashland Inc. Job Number: 680-58180-1

Client Sample ID: **MW-4**

L8i e6S8A po eDm 680-58180-2 Date Sampled: 06/01/2010 1540
Client Matrix: Water Date Received: 06/02/2010 0929

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-170611	Instrument ID:	MSP2
Preparation:	5030B		Lab File ID:	p0060.d
Dilution:	1.0		Initial Weight/Volume:	5 mL
Date Analyzed:	06/04/2010 1936		Final Weight/Volume:	5 mL
Date Prepared:	06/04/2010 1936			

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U *	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-58180-1

Client Sample ID: **MW-4**

L8i e6S8A po eDm 680-58180-2 Date Sampled: 06/01/2010 1540
Client Matrix: Water Date Received: 06/02/2010 0929

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-170611	Instrument ID:	MSP2
Preparation:	5030B		Lab File ID:	p0060.d
Dilution:	1.0		Initial Weight/Volume:	5 mL
Date Analyzed:	06/04/2010 1936		Final Weight/Volume:	5 mL
Date Prepared:	06/04/2010 1936			

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	95		75 - 120
Dibromofluoromethane	94		75 - 121
Toluene-d8 (Surr)	104		75 - 120

Client: Ashland Inc. Job Number: 680-58180-1

Client Sample ID: **MW-7**

L8i e6S8A po eDm 680-58180-3 Date Sampled: 06/01/2010 1345
Client Matrix: Water Date Received: 06/02/2010 0929

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-170611	Instrument ID:	MSP2
Preparation:	5030B		Lab File ID:	p0062.d
Dilution:	1.0		Initial Weight/Volume:	5 mL
Date Analyzed:	06/04/2010 2006		Final Weight/Volume:	5 mL
Date Prepared:	06/04/2010 2006			

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	5.4	J	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	22		0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U *	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	74		0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	0.19	J	0.11	1.0
1,2-Dichloropropane	0.54	J	0.13	1.0
Ethylbenzene	0.14	J	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.1		0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-58180-1

Client Sample ID: **MW-7**

L8i e6S8A po eDm 680-58180-3 Date Sampled: 06/01/2010 1345
Client Matrix: Water Date Received: 06/02/2010 0929

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-170611	Instrument ID:	MSP2
Preparation:	5030B		Lab File ID:	p0062.d
Dilution:	1.0		Initial Weight/Volume:	5 mL
Date Analyzed:	06/04/2010 2006		Final Weight/Volume:	5 mL
Date Prepared:	06/04/2010 2006			

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0		0.18	1.0
Xylenes, Total	8.0		0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	98		75 - 120
Dibromofluoromethane	89		75 - 121
Toluene-d8 (Surr)	101		75 - 120

Client: Ashland Inc. Job Number: 680-58180-1

Client Sample ID: **MW-5I**

L8i e6S8A po eDm 680-58180-4 Date Sampled: 06/01/2010 1500
Client Matrix: Water Date Received: 06/02/2010 0929

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-170611	Instrument ID:	MSP2
Preparation:	5030B		Lab File ID:	p0064.d
Dilution:	1.0		Initial Weight/Volume:	5 mL
Date Analyzed:	06/04/2010 2036		Final Weight/Volume:	5 mL
Date Prepared:	06/04/2010 2036			

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U *	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-58180-1

Client Sample ID: **MW-5I**

L8i e6S8A po eDm 680-58180-4 Date Sampled: 06/01/2010 1500
Client Matrix: Water Date Received: 06/02/2010 0929

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-170611	Instrument ID:	MSP2
Preparation:	5030B		Lab File ID:	p0064.d
Dilution:	1.0		Initial Weight/Volume:	5 mL
Date Analyzed:	06/04/2010 2036		Final Weight/Volume:	5 mL
Date Prepared:	06/04/2010 2036			

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	96		75 - 120
Dibromofluoromethane	92		75 - 121
Toluene-d8 (Surr)	103		75 - 120

Client: Ashland Inc. Job Number: 680-58180-1

Client Sample ID: **Trip Blank Lot 051110**

L8i e6S8A po eDm 680-58180-5TB Date Sampled: 06/01/2010 0000
Client Matrix: Water Date Received: 06/02/2010 0929

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-170495	Instrument ID:	MSP2
Preparation:	5030B		Lab File ID:	p0032.d
Dilution:	1.0		Initial Weight/Volume:	5 mL
Date Analyzed:	06/03/2010 2135		Final Weight/Volume:	5 mL
Date Prepared:	06/03/2010 2135			

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U *	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-58180-1

Client Sample ID: **Trip Blank Lot 051110**

L8i e6S8A po eDm 680-58180-5TB Date Sampled: 06/01/2010 0000

Client Matrix: Water Date Received: 06/02/2010 0929

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-170495	Instrument ID:	MSP2	
Preparation:	5030B		Lab File ID:	p0032.d	
Dilution:	1.0		Initial Weight/Volume:	5	mL
Date Analyzed:	06/03/2010 2135		Final Weight/Volume:	5	mL
Date Prepared:	06/03/2010 2135				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	96		75 - 120
Dibromofluoromethane	89		75 - 121
Toluene-d8 (Surr)	104		75 - 120

Client: Ashland Inc. Job Number: 680-58180-1

Client Sample ID: **MW-5I**

L8i e6S8A po eDm 680-58180-4 Date Sampled: 06/01/2010 1500
Client Matrix: Water Date Received: 06/02/2010 0929

8081A_8082 Organochlorine Pesticides & PCBs (GC)

Method:	8081A_8082	Analysis Batch: 680-170797		Instrument ID:	SGM
Preparation:	3520C	Prep Batch: 680-170432		Initial Weight/Volume:	500 mL
Dilution:	1.0			Final Weight/Volume:	5 mL
Date Analyzed:	06/04/2010 1622			Injection Volume:	2 uL
Date Prepared:	06/03/2010 1534			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Total	5.0	U	0.50	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	87		14 - 115
Tetrachloro-m-xylene	73		35 - 120

Client: Ashland Inc. Job Number: 680-58180-1

Client Sample ID: **MW-5I**

L8i e6S8A po eDm 680-58180-4 Date Sampled: 06/01/2010 1500
Client Matrix: Water Date Received: 06/02/2010 0929

8081B/8082A Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Method:	8081B/8082A	Analysis Batch: 680-170680	Instrument ID: SGM
Preparation:	3520C	Prep Batch: 680-170432	Initial Weight/Volume: 500 mL
Dilution:	1.0		Final Weight/Volume: 5 mL
Date Analyzed:	06/04/2010 1622		Injection Volume: 2 uL
Date Prepared:	06/03/2010 1534		Result Type: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Technical	5.0	U	0.50	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	100		14 - 115
Tetrachloro-m-xylene	76		35 - 120

DATA REPORTING QUALIFIERS

Client: Ashland Inc. Job Number: 680-58180-1

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Indicates the analyte was analyzed for but not detected.
	*	LCS or LCSD exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
GC Semi VOA		
	U	Indicates the analyte was analyzed for but not detected.
	X	Surrogate is outside control limits

QUALITY CONTROL RESULTS

Client: Ashland Inc. Job Number: 680-58180-1

QCtAssociaaoetSommary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:680-170495					
LCS 680-170495/5	L8i eJ l Nusl oeS8A po	T	W8u t	8260B	
LCSD 680-170495/6	Lab Control Sample Duplicate	T	Water	8260B	
MB 680-170495/8	Method Blank	T	Water	8260B	
680-58180-5TB	Trip Blank Lot 051110	T	Water	8260B	
Analysis Batch:680-170611					
LCS 680-170611/4	Lab Control Sample	T	Water	8260B	
LCSD 680-170611/5	Lab Control Sample Duplicate	T	Water	8260B	
MB 680-170611/7	Method Blank	T	Water	8260B	
680-58180-1	MW-5S	T	Water	8260B	
680-58180-2	MW-4	T	Water	8260B	
680-58180-3	MW-7	T	Water	8260B	
680-58180-4	MW-5I	T	Water	8260B	

Reporatmasis
T = Total

GC Semi VOA					
Prep Batch: 680-170432					
LCS 680-170432/24-A	Lab Control Sample	T	Water	3520C	
MB 680-170432/17-A	Method Blank	T	Water	3520C	
680-58180-4	MW-5I	T	Water	3520C	
680-58180-4MS	Matrix Spike	T	Water	3520C	
680-58180-4MSD	Matrix Spike Duplicate	T	Water	3520C	
Analysis Batch:680-170680					
LCS 680-170432/24-A	Lab Control Sample	T	Water	8081B/8082A	680-170432
MB 680-170432/17-A	Method Blank	T	Water	8081B/8082A	680-170432
680-58180-4	MW-5I	T	Water	8081B/8082A	680-170432
680-58180-4MS	Matrix Spike	T	Water	8081B/8082A	680-170432
680-58180-4MSD	Matrix Spike Duplicate	T	Water	8081B/8082A	680-170432
Analysis Batch:680-170797					
LCS 680-170432/24-A	Lab Control Sample	T	Water	8081A_8082	680-170432
MB 680-170432/17-A	Method Blank	T	Water	8081A_8082	680-170432
680-58180-4	MW-5I	T	Water	8081A_8082	680-170432
680-58180-4MS	Matrix Spike	T	Water	8081A_8082	680-170432
680-58180-4MSD	Matrix Spike Duplicate	T	Water	8081A_8082	680-170432

Report Basis
T = Total

Client: Ashland Inc.

Job Number: 680-58180-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	BFB %Rec	DBFM %Rec	TOL %Rec
680-58180-1	MW-5S	97	93	106
680-58180-2	MW-4	95	94	104
680-58180-3	MW-7	98	89	101
680-58180-4	MW-5I	96	92	103
680-58180-5	Trip Blank Lot 051110	96	89	104
MB 680-170495/8		98	100	103
MB 680-170611/7		98	100	104
LCS 680-170495/5		101	102	103
LCS 680-170611/4		107	100	106
LCSD 680-170495/6		102	105	102
LCSD 680-170611/5		104	104	104

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene	75-120
DBFM = Dibromofluoromethane	75-121
TOL = Toluene-d8 (Surr)	75-120

Client: Ashland Inc.

Job Number: 680-58180-1

Surrogate Recovery Report

8081A_8082_Organochlorine Pesticides & PCBs (GC)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCB1 %Rec	TCX1 %Rec
680-58180-4	MW-5I	87	S3
MB 680-1704T2/17-A		81	75
LCS 680-170) (24-2) -A		115	9z
680-58180-4 MS	MW-5I MS	68	66
680-58180-4 MSD	MW-5I MSD	65	58

Surrogate	Acceptance Limits
DCB = DCB Decachlorobiphenyl	14-115
TCX = Tetrachloro-m-xylene	35-120

Client: Ashland Inc. Job Number: 680-58180-1

Surrogate Recovery Report

8081B/8082A Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCB1 %Rec	DCB2 %Rec	TCX1 %Rec	Mł) 2 %Rec
680-58180-4	MW-5I		100		76
MB 680-170432/17-A			102		86
LCS 680-170432/24-A			135X		96
680-58180-4 MS	MW-5I MS	68		66	
680-58180-4 MSD	MW-5I MSD	65			62

Surrogate	Acceptance Limits
DCB = DCB Decachlorobiphenyl	14-115
TCX = Tetrachloro-m-xylene	35-120

Client: Ashland Inc. Job Number: 680-58180-1

Method Blank - Batch: 680-170495

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-170495/8
Client Matrix: Whnter
Dilution: 1.0
Date Analyzed: 06/03/2010 1342
Date Prepared: 06/03/2010 1342

Analysis Batch: 680-170495
Prep Batch: N/A
Units: ug/L

Instrument ID: MSP2
Lab File ID: pq046.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0

Client: Ashland Inc.

Job Number: 680-58180-1

Method Blank - Batch: 680-170495

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-170495/8
Client Matrix: Whnter
Dilution: 1.0
Date Analyzed: 06/03/2010 1342
Date Prepared: 06/03/2010 1342

Analysis Batch: 680-170495
Prep Batch: N/A
Units: ug/L

Instrument ID: MSP2
Lab File ID: pq046.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	98	75 - 120
Dibromofluoromethane	100	75 - 121
Toluene-d8 (Surr)	103	75 - 120

Client: Ashland Inc. Job Number: 680-58180-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-170495

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-170495/5	Analysis Batch:	680-170495	Instrument ID:	MSP2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	pq038.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/03/2010 1144			Final Weight/Volume:	5 mL
Date Prepared:	06/03/2010 1144				

LCSD Lab Sample ID:	LCSD 680-170495/6	Analysis Batch:	680-170495	Instrument ID:	MSP2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	pq040.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/03/2010 1213			Final Weight/Volume:	5 mL
Date Prepared:	06/03/2010 1213				

	% Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	89	76	17 - 175	16	50		
Benzene	104	105	77 - 119	1	30		
Bromoform	113	111	62 - 133	2	30		
Bromomethane	135	155	12 - 184	14	50		
2-Butanone (MEK)	108	110	33 - 157	2	30		
Carbon disulfide	140	103	55 - 131	30	30	*	
Carbon tetrachloride	106	106	71 - 135	0	30		
Chlorobenzene	104	104	85 - 116	0	30		
Chlorodibromomethane	102	104	75 - 133	2	30		
Chloroethane	106	112	40 - 165	5	50		
Chloroform	109	114	82 - 120	4	30		
Chloromethane	118	124	48 - 142	5	50		
cis-1,3-Dichloropropene	111	110	76 - 126	1	30		
1,2-Dibromo-3-Chloropropane	105	102	49 - 140	3	30		
Dibromomethane	96	97	78 - 119	1	30		
Dichlorobromomethane	103	102	78 - 127	1	30		
Dichlorodifluoromethane	124	126	34 - 154	1	30		
1,1-Dichloroethane	110	110	74 - 127	0	30		
1,2-Dichloroethane	99	97	66 - 132	2	30		
1,1-Dichloroethene	96	79	62 - 141	20	30		
1,2-Dichloropropane	104	107	73 - 124	4	30		
Ethylbenzene	107	107	86 - 116	0	30		
Ethylene Dibromide	104	100	80 - 121	4	30		
2-Hexanone	111	107	34 - 161	4	30		
Methylene Chloride	110	111	70 - 125	0	30		
4-Methyl-2-pentanone (MIBK)	101	99	40 - 151	2	30		
Styrene	107	108	82 - 122	1	30		
1,1,1,2-Tetrachloroethane	105	107	81 - 128	1	30		
1,1,2,2-Tetrachloroethane	94	97	69 - 129	3	30		
Tetrachloroethene	105	106	76 - 126	1	30		
Toluene	103	103	81 - 117	0	30		
trans-1,2-Dichloroethene	99	105	72 - 131	6	30		
trans-1,3-Dichloropropene	113	113	73 - 128	1	30		
1,1,1-Trichloroethane	106	105	76 - 127	1	30		

Client: Ashland Inc. Job Number: 680-58180-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-170495

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-170495/5	Analysis Batch:	680-170495	Instrument ID:	MSP2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	pq038.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/03/2010 1144			Final Weight/Volume:	5 mL
Date Prepared:	06/03/2010 1144				

LCSD Lab Sample ID:	LCSD 680-170495/6	Analysis Batch:	680-170495	Instrument ID:	MSP2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	pq040.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/03/2010 1213			Final Weight/Volume:	5 mL
Date Prepared:	06/03/2010 1213				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,1,2-Trichloroethane	101	101	75 - 121	0	30		
Trichloroethene	102	103	84 - 115	1	30		
Trichlorofluoromethane	119	115	58 - 149	3	50		
1,2,3-Trichloropropane	98	98	70 - 130	0	30		
Vinyl acetate	189	187	10 - 217	1	30		
Vinyl chloride	113	121	59 - 144	7	50		
Xylenes, Total	106	106	84 - 118	0	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	101	102	75 - 120
Dibromofluoromethane	102	105	75 - 121
Toluene-d8 (Surr)	103	102	75 - 120

Client: Ashland Inc. Job Number: 680-58180-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 680-170495

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-170495/5	Units:	ug/L	LCSD Lab Sample ID:	LCSD 680-170495/6
Client Matrix:	Whrer			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Date Analyzed:	06/03/2010 1144			Date Analyzed:	06/03/2010 1213
Date Prepared:	06/03/2010 1144			Date Prepared:	06/03/2010 1213

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Acetone	100	100	89.2	75.9
Benzene	50.0	50.0	52.0	52.7
Bromoform	50.0	50.0	56.6	55.6
Bromomethane	50.0	50.0	67.4	77.7
2-Butanone (MEK)	100	100	108	110
Carbon disulfide	50.0	50.0	69.8 *	51.6
Carbon tetrachloride	50.0	50.0	53.1	53.0
Chlorobenzene	50.0	50.0	52.1	51.8
Chlorodibromomethane	50.0	50.0	50.8	51.8
Chloroethane	50.0	50.0	53.2	55.9
Chloroform	50.0	50.0	54.7	56.9
Chloromethane	50.0	50.0	59.0	62.0
cis-1,3-Dichloropropene	50.0	50.0	55.3	54.9
1,2-Dibromo-3-Chloropropane	50.0	50.0	52.6	51.1
Dibromomethane	50.0	50.0	48.0	48.6
Dichlorobromomethane	50.0	50.0	51.7	51.2
Dichlorodifluoromethane	50.0	50.0	62.2	62.8
1,1-Dichloroethane	50.0	50.0	54.9	54.8
1,2-Dichloroethane	50.0	50.0	49.5	48.7
1,1-Dichloroethene	50.0	50.0	48.2	39.6
1,2-Dichloropropane	50.0	50.0	51.8	53.7
Ethylbenzene	50.0	50.0	53.4	53.3
Ethylene Dibromide	50.0	50.0	52.0	50.2
2-Hexanone	100	100	111	107
Methylene Chloride	50.0	50.0	55.2	55.5
4-Methyl-2-pentanone (MIBK)	100	100	101	99.2
Styrene	50.0	50.0	53.5	53.9
1,1,1,2-Tetrachloroethane	50.0	50.0	52.7	53.4
1,1,2,2-Tetrachloroethane	50.0	50.0	47.0	48.3
Tetrachloroethene	50.0	50.0	52.4	52.8
Toluene	50.0	50.0	51.4	51.4
trans-1,2-Dichloroethene	50.0	50.0	49.5	52.3
trans-1,3-Dichloropropene	50.0	50.0	56.7	56.3
1,1,1-Trichloroethane	50.0	50.0	52.8	52.5
1,1,2-Trichloroethane	50.0	50.0	50.6	50.7
Trichloroethene	50.0	50.0	51.2	51.7
Trichlorofluoromethane	50.0	50.0	59.4	57.7
1,2,3-Trichloropropane	50.0	50.0	49.1	49.0
Vinyl acetate	100	100	189	187
Vinyl chloride	50.0	50.0	56.7	60.7
Xylenes, Total	150	150	159	159

Client: Ashland Inc. Job Number: 680-58180-1

Method Blank - Batch: 680-170611

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-170611/7
Client Matrix: Whnter
Dilution: 1.0
Date Analyzed: 06/04/2010 1243
Date Prepared: 06/04/2010 1243

Analysis Batch: 680-170611
Prep Batch: N/A
Units: ug/L

Instrument ID: MSP2
Lab File ID: pq060.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0

Client: Ashland Inc. Job Number: 680-58180-1

Method Blank - Batch: 680-170611

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-170611/7
Client Matrix: Whnter
Dilution: 1.0
Date Analyzed: 06/04/2010 1243
Date Prepared: 06/04/2010 1243

Analysis Batch: 680-170611
Prep Batch: N/A
Units: ug/L

Instrument ID: MSP2
Lab File ID: pq060.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	98	75 - 120
Dibromofluoromethane	100	75 - 121
Toluene-d8 (Surr)	104	75 - 120

Client: Ashland Inc. Job Number: 680-58180-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-170611

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-170611/4	Analysis Batch:	680-170611	Instrument ID:	MSP2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	pq052.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/04/2010 1045			Final Weight/Volume:	5 mL
Date Prepared:	06/04/2010 1045				

LCSD Lab Sample ID:	LCSD 680-170611/5	Analysis Batch:	680-170611	Instrument ID:	MSP2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	pq054.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/04/2010 1114			Final Weight/Volume:	5 mL
Date Prepared:	06/04/2010 1114				

	% Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	89	86	17 - 175	3	50		
Benzene	107	104	77 - 119	3	30		
Bromoform	118	112	62 - 133	5	30		
Bromomethane	158	187	12 - 184	17	50		*
2-Butanone (MEK)	102	99	33 - 157	3	30		
Carbon disulfide	124	125	55 - 131	1	30		
Carbon tetrachloride	123	117	71 - 135	5	30		
Chlorobenzene	102	103	85 - 116	1	30		
Chlorodibromomethane	108	106	75 - 133	1	30		
Chloroethane	107	112	40 - 165	5	50		
Chloroform	108	111	82 - 120	4	30		
Chloromethane	113	121	48 - 142	7	50		
cis-1,3-Dichloropropene	115	108	76 - 126	6	30		
1,2-Dibromo-3-Chloropropane	107	107	49 - 140	0	30		
Dibromomethane	101	95	78 - 119	6	30		
Dichlorobromomethane	113	107	78 - 127	5	30		
Dichlorodifluoromethane	142	137	34 - 154	3	30		
1,1-Dichloroethane	103	103	74 - 127	0	30		
1,2-Dichloroethane	111	105	66 - 132	6	30		
1,1-Dichloroethene	87	90	62 - 141	3	30		
1,2-Dichloropropane	104	102	73 - 124	2	30		
Ethylbenzene	109	107	86 - 116	2	30		
Ethylene Dibromide	102	101	80 - 121	1	30		
2-Hexanone	101	100	34 - 161	1	30		
Methylene Chloride	100	106	70 - 125	6	30		
4-Methyl-2-pentanone (MIBK)	100	97	40 - 151	3	30		
Styrene	106	105	82 - 122	1	30		
1,1,1,2-Tetrachloroethane	109	108	81 - 128	0	30		
1,1,2,2-Tetrachloroethane	95	93	69 - 129	2	30		
Tetrachloroethene	104	104	76 - 126	1	30		
Toluene	105	101	81 - 117	4	30		
trans-1,2-Dichloroethene	95	95	72 - 131	1	30		
trans-1,3-Dichloropropene	119	115	73 - 128	4	30		
1,1,1-Trichloroethane	126	114	76 - 127	9	30		

Client: Ashland Inc. Job Number: 680-58180-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-170611

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-170611/4	Analysis Batch:	680-170611	Instrument ID:	MSP2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	pq052.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/04/2010 1045			Final Weight/Volume:	5 mL
Date Prepared:	06/04/2010 1045				

LCSD Lab Sample ID:	LCSD 680-170611/5	Analysis Batch:	680-170611	Instrument ID:	MSP2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	pq054.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/04/2010 1114			Final Weight/Volume:	5 mL
Date Prepared:	06/04/2010 1114				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,1,2-Trichloroethane	107	101	75 - 121	6	30		
Trichloroethene	105	100	84 - 115	5	30		
Trichlorofluoromethane	128	130	58 - 149	2	50		
1,2,3-Trichloropropane	103	100	70 - 130	2	30		
Vinyl acetate	170	171	10 - 217	1	30		
Vinyl chloride	112	115	59 - 144	2	50		
Xylenes, Total	106	104	84 - 118	2	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	107	104	75 - 120
Dibromofluoromethane	100	104	75 - 121
Toluene-d8 (Surr)	106	104	75 - 120

Client: Ashland Inc. Job Number: 680-58180-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 680-170611

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-170611/4	Units:	ug/L	LCSD Lab Sample ID:	LCSD 680-170611/5
Client Matrix:	Whrer			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Date Analyzed:	06/04/2010 1045			Date Analyzed:	06/04/2010 1114
Date Prepared:	06/04/2010 1045			Date Prepared:	06/04/2010 1114

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual	
Acetone	100	100	89.0	86.1	
Benzene	50.0	50.0	53.5	51.8	
Bromoform	50.0	50.0	59.1	56.2	
Bromomethane	50.0	50.0	79.1	93.7	*
2-Butanone (MEK)	100	100	102	99.2	
Carbon disulfide	50.0	50.0	62.1	62.6	
Carbon tetrachloride	50.0	50.0	61.5	58.7	
Chlorobenzene	50.0	50.0	50.8	51.3	
Chlorodibromomethane	50.0	50.0	53.9	53.2	
Chloroethane	50.0	50.0	53.4	55.9	
Chloroform	50.0	50.0	53.8	55.7	
Chloromethane	50.0	50.0	56.7	60.7	
cis-1,3-Dichloropropene	50.0	50.0	57.4	53.9	
1,2-Dibromo-3-Chloropropane	50.0	50.0	53.3	53.4	
Dibromomethane	50.0	50.0	50.6	47.7	
Dichlorobromomethane	50.0	50.0	56.4	53.6	
Dichlorodifluoromethane	50.0	50.0	70.9	68.5	
1,1-Dichloroethane	50.0	50.0	51.7	51.6	
1,2-Dichloroethane	50.0	50.0	55.5	52.3	
1,1-Dichloroethene	50.0	50.0	43.6	44.8	
1,2-Dichloropropane	50.0	50.0	52.2	51.2	
Ethylbenzene	50.0	50.0	54.3	53.3	
Ethylene Dibromide	50.0	50.0	50.8	50.4	
2-Hexanone	100	100	101	99.8	
Methylene Chloride	50.0	50.0	49.8	52.8	
4-Methyl-2-pentanone (MIBK)	100	100	100	96.8	
Styrene	50.0	50.0	53.1	52.7	
1,1,1,2-Tetrachloroethane	50.0	50.0	54.4	54.2	
1,1,2,2-Tetrachloroethane	50.0	50.0	47.4	46.4	
Tetrachloroethene	50.0	50.0	52.2	51.8	
Toluene	50.0	50.0	52.3	50.4	
trans-1,2-Dichloroethene	50.0	50.0	47.6	47.3	
trans-1,3-Dichloropropene	50.0	50.0	59.5	57.5	
1,1,1-Trichloroethane	50.0	50.0	62.8	57.1	
1,1,2-Trichloroethane	50.0	50.0	53.4	50.3	
Trichloroethene	50.0	50.0	52.4	49.9	
Trichlorofluoromethane	50.0	50.0	64.1	65.2	
1,2,3-Trichloropropane	50.0	50.0	51.3	50.2	
Vinyl acetate	100	100	170	171	
Vinyl chloride	50.0	50.0	56.1	57.5	
Xylenes, Total	150	150	159	155	

Client: Ashland Inc. Job Number: 680-58180-1

Method Blank - Batch: 680-170432

Method: 8081A_8082
Preparation: 3520C

Lab Sample ID: MB 680-170432/17-A
Client Matrix: Whnter
Dilution: 1.0
Date Analyzed: 06/04/2010 1504
Date Prepared: 06/03/2010 1534

Analysis Batch: 680-170797
Prep Batch: 680-170432
Units: ug/L

Instrument ID: SGM
Lab File ID: mf04007.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
Toxaphene, Total	5.0	U	0.50	5.0

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	81	14 - 115
Tetrachloro-m-xylene	75	35 - 120

Lab Control Sample - Batch: 680-170432

Method: 8081A_8082
Preparation: 3520C

Lab Sample ID: LCS 680-170432/24-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/04/2010 1602
Date Prepared: 06/03/2010 1534

Analysis Batch: 680-170797
Prep Batch: 680-170432
Units: ug/L

Instrument ID: SGM
Lab File ID: mf04010.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Toxaphene, Total	10.0	9.69	97	30 - 120	

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	115	14 - 115
Tetrachloro-m-xylene	92	35 - 120

Client: Ashland Inc. Job Number: 680-58180-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-170432

Method: 8081A_8082
Preparation: 3520C

MS Lab Sample ID:	680-58180-4	Analysis Batch: 680-170797	Instrument ID: SGM
Client Matrix:	Water	Prep Batch: 680-170432	Lab File ID: mf04024.d
Dilution:	1.0		Initial Weight/Volume: 500 mL
Date Analyzed:	06/04/2010 2053		Final Weight/Volume: 5 mL
Date Prepared:	06/03/2010 1534		Injection Volume: 2 uL
			Column ID: PRIMARY

MSD Lab Sample ID:	680-58180-4	Analysis Batch: 680-170797	Instrument ID: SGM
Client Matrix:	Water	Prep Batch: 680-170432	Lab File ID: mf04025.d
Dilution:	1.0		Initial Weight/Volume: 500 mL
Date Analyzed:	06/04/2010 2112		Final Weight/Volume: 5 mL
Date Prepared:	06/03/2010 1534		Injection Volume: 2 uL
			Column ID: PRIMARY

	% Rec.					
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Toxaphene, Total	75	69	30 - 120	9	40		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
DCB Decachlorobiphenyl	68	65	14 - 115
Tetrachloro-m-xylene	66	58	35 - 120

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 680-170432

Method: 8081A_8082
Preparation: 3520C

MS Lab Sample ID:	680-58180-4	Units: ug/L	MSD Lab Sample ID: 680-58180-4
Client Matrix:	Water		Client Matrix: Water
Dilution:	1.0		Dilution: 1.0
Date Analyzed:	06/04/2010 2053		Date Analyzed: 06/04/2010 2112
Date Prepared:	06/03/2010 1534		Date Prepared: 06/03/2010 1534

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Toxaphene, Total	5.0	U	10.0	10.0	7.50	6.86

Client: Ashland Inc. Job Number: 680-58180-1

Method Blank - Batch: 680-170432

Method: 8081B/8082A
Preparation: 3520C

Lab Sample ID: MB 680-170432/17-A
Client Matrix: Whnter
Dilution: 1.0
Date Analyzed: 06/04/2010 1504
Date Prepared: 06/03/2010 1534

Analysis Batch: 680-170680
Prep Batch: 680-170432
Units: ug/L

Instrument ID: SGM
Lab File ID: mf04007.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
Toxaphene, Technical	5.0	U	0.50	5.0

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	102	14 - 115
Tetrachloro-m-xylene	86	35 - 120

Lab Control Sample - Batch: 680-170432

Method: 8081B/8082A
Preparation: 3520C

Lab Sample ID: LCS 680-170432/24-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/04/2010 1602
Date Prepared: 06/03/2010 1534

Analysis Batch: 680-170680
Prep Batch: 680-170432
Units: ug/L

Instrument ID: SGM
Lab File ID: mf04010.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Toxaphene, Technical	10.0	10.3	103	30 - 120	

Surrogate	% Rec		Acceptance Limits
DCB Decachlorobiphenyl	135	X	14 - 115
Tetrachloro-m-xylene	96		35 - 120

Client: Ashland Inc. Job Number: 680-58180-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-170432

Method: 8081B/8082A
Preparation: 3520C

MS Lab Sample ID:	680-58180-4	Analysis Batch: 680-170680	Instrument ID: SGM
Client Matrix:	Water	Prep Batch: 680-170432	Lab File ID: mf04024.d
Dilution:	1.0		Initial Weight/Volume: 500 mL
Date Analyzed:	06/04/2010 2053		Final Weight/Volume: 5 mL
Date Prepared:	06/03/2010 1534		Injection Volume: 2 uL
			Column ID: PRIMARY

MSD Lab Sample ID:	680-58180-4	Analysis Batch: 680-170680	Instrument ID: SGM
Client Matrix:	Water	Prep Batch: 680-170432	Lab File ID: mf04025.d
Dilution:	1.0		Initial Weight/Volume: 500 mL
Date Analyzed:	06/04/2010 2112		Final Weight/Volume: 5 mL
Date Prepared:	06/03/2010 1534		Injection Volume: 2 uL
			Column ID: PRIMARY

	% Rec.					
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Toxaphene, Technical	71	72	30 - 120	2	40		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
DCB Decachlorobiphenyl	68	65	14 - 115
Tetrachloro-m-xylene	66	62	35 - 120

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 680-170432

Method: 8081B/8082A
Preparation: 3520C

MS Lab Sample ID:	680-58180-4	Units: ug/L	MSD Lab Sample ID: 680-58180-4
Client Matrix:	Water		Client Matrix: Water
Dilution:	1.0		Dilution: 1.0
Date Analyzed:	06/04/2010 2053		Date Analyzed: 06/04/2010 2112
Date Prepared:	06/03/2010 1534		Date Prepared: 06/03/2010 1534

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Toxaphene, Technical	5.0	U	10.0	10.0	7.12	7.25

Client: Ashland Inc. Job Number: 680-58180-1

Laboratory Chronicle

Lab ID: 680-58180-1 **Client ID:** MW-5S

Sample Date/Time: 06/01/2010 14:55 Received Date/Time: 06/02/2010 09:29

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58180-A-1		had l. 7dh. .		06/04/2010 19:07	1	TAL SAV	CL
A:8260B	680-58180-A-1		680-170611		06/04/2010 19:07	1	TAL SAV	CL

Lab ID: 680-58180-2 **Client ID:** MW-4

Sample Date/Time: 06/01/2010 15:40 Received Date/Time: 06/02/2010 09:29

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58180-A-2		680-170611		06/04/2010 19:36	1	TAL SAV	CL
A:8260B	680-58180-A-2		680-170611		06/04/2010 19:36	1	TAL SAV	CL

Lab ID: 680-58180-3 **Client ID:** MW-7

Sample Date/Time: 06/01/2010 13:45 Received Date/Time: 06/02/2010 09:29

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58180-A-3		680-170611		06/04/2010 20:06	1	TAL SAV	CL
A:8260B	680-58180-A-3		680-170611		06/04/2010 20:06	1	TAL SAV	CL

Lab ID: 680-58180-4 **Client ID:** MW-5I

Sample Date/Time: 06/01/2010 15:00 Received Date/Time: 06/02/2010 09:29

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58180-C-4		680-170611		06/04/2010 20:36	1	TAL SAV	CL
A:8260B	680-58180-C-4		680-170611		06/04/2010 20:36	1	TAL SAV	CL
P:3520C	680-58180-A-4-A		680-170797	680-170432	06/03/2010 15:34	1	TAL SAV	RBS
A:8081A_8082	680-58180-A-4-A		680-170797	680-170432	06/04/2010 16:22	1	TAL SAV	LH
P:3520C	680-58180-A-4-A		680-170680	680-170432	06/03/2010 15:34	1	TAL SAV	RBS
A:8081B/8082A	680-58180-A-4-A		680-170680	680-170432	06/04/2010 16:22	1	TAL SAV	LH

Lab ID: 680-58180-4 MS **Client ID:** MW-5I

Sample Date/Time: 06/01/2010 15:00 Received Date/Time: 06/02/2010 09:29

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3520C	680-58180-B-4-A MS		680-170797	680-170432	06/03/2010 15:34	1	TAL SAV	RBS
A:8081A_8082	680-58180-B-4-A MS		680-170797	680-170432	06/04/2010 20:53	1	TAL SAV	LH
P:3520C	680-58180-B-4-A MS		680-170680	680-170432	06/03/2010 15:34	1	TAL SAV	RBS
A:8081B/8082A	680-58180-B-4-A MS		680-170680	680-170432	06/04/2010 20:53	1	TAL SAV	LH

Client: Ashland Inc. Job Number: 680-58180-1

Laboratory Chronicle

Lab ID: 680-58180-4 MSD **Client ID: MW-5I**

Sample Date/Time: 06/01/2010 15:00 Received Date/Time: 06/02/2010 09:29

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3520C	680-58180-B-4-B MSD		680-170797	680-170432	06/03/2010 15:34	1	TAL SAV	RBS
A:8081A_8082	680-58180-B-4-B MSD		680-170797	680-170432	06/04/2010 21:12	1	TAL SAV	LH
P:3520C	680-58180-B-4-B MSD		680-170680	680-170432	06/03/2010 15:34	1	TAL SAV	RBS
A:8081B/8082A	680-58180-B-4-B MSD		680-170680	680-170432	06/04/2010 21:12	1	TAL SAV	LH

Lab ID: 680-58180-5 **Client ID: Trip Blank Lot 051110**

Sample Date/Time: 06/01/2010 00:00 Received Date/Time: 06/02/2010 09:29

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58180-A-5		680-170495		06/03/2010 21:35	1	TAL SAV	CL
A:8260B	680-58180-A-5		680-170495		06/03/2010 21:35	1	TAL SAV	CL

Lab ID: MB **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	MB 680-170495/8		680-170495		06/03/2010 13:42	1	TAL SAV	CL
A:8260B	MB 680-170495/8		680-170495		06/03/2010 13:42	1	TAL SAV	CL
P:5030B	MB 680-170611/7		680-170611		06/04/2010 12:43	1	TAL SAV	CL
A:8260B	MB 680-170611/7		680-170611		06/04/2010 12:43	1	TAL SAV	CL
P:3520C	MB 680-170432/17-A		680-170797	680-170432	06/03/2010 15:34	1	TAL SAV	RBS
A:8081A_8082	MB 680-170432/17-A		680-170797	680-170432	06/04/2010 15:04	1	TAL SAV	LH
P:3520C	MB 680-170432/17-A		680-170680	680-170432	06/03/2010 15:34	1	TAL SAV	RBS
A:8081B/8082A	MB 680-170432/17-A		680-170680	680-170432	06/04/2010 15:04	1	TAL SAV	LH

Lab ID: LCS **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCS 680-170495/5		680-170495		06/03/2010 11:44	1	TAL SAV	CL
A:8260B	LCS 680-170495/5		680-170495		06/03/2010 11:44	1	TAL SAV	CL
P:5030B	LCS 680-170611/4		680-170611		06/04/2010 10:45	1	TAL SAV	CL
A:8260B	LCS 680-170611/4		680-170611		06/04/2010 10:45	1	TAL SAV	CL
P:3520C	LCS 680-170432/24-A		680-170797	680-170432	06/03/2010 15:34	1	TAL SAV	RBS
A:8081A_8082	LCS 680-170432/24-A		680-170797	680-170432	06/04/2010 16:02	1	TAL SAV	LH
P:3520C	LCS 680-170432/24-A		680-170680	680-170432	06/03/2010 15:34	1	TAL SAV	RBS
A:8081B/8082A	LCS 680-170432/24-A		680-170680	680-170432	06/04/2010 16:02	1	TAL SAV	LH

Client: Ashland Inc. Job Number: 680-58180-1

Laboratory Chronicle

Lab ID: **LCSD** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCSD 680-170495/6		680-170495		06/03/2010 12:13	1	TAL SAV	CL
A:8260B	LCSD 680-170495/6		680-170495		06/03/2010 12:13	1	TAL SAV	CL
P:5030B	LCSD 680-170611/5		680-170611		06/04/2010 11:14	1	TAL SAV	CL
A:8260B	LCSD 680-170611/5		680-170611		06/04/2010 11:14	1	TAL SAV	CL

Lab References:
TAL SAV = TestAmerica Savannah

Serial Number 026434

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

☒ TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

○ Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE: Ashland Brunswick	PROJECT NO.: JO9849509	PROJECT LOCATION (STATE): GA
TAL (LAB) PROJECT MANAGER: Lidia Gilizia	P.O. NUMBER: 4501306047	CONTRACT NO.
CLIENT (SITE) PM: Tim Hassett	CLIENT PHONE	CLIENT FAX
CLIENT NAME: Ashland - Hercules	CLIENT E-MAIL	
CLIENT ADDRESS: 2508 Cook St Brunswick GA		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 1
STANDARD REPORT DELIVERY ☒ DATE DUE ______
EXPEDITED REPORT DELIVERY (SURCHARGE) ○ DATE DUE ______
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

MATRIX TYPE: COMPOSITE (C) OR GRAB (G) INDICATE; AQUEOUS (WATER); SOLID OR SEMISOLID; AIR; NONAQUEOUS LIQUID (OIL, SOLVENT, ...)

REQUIRED ANALYSIS: VOC's; Technical Toxaphene/Total (struck through entry) RM

PRESERVATIVE

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G)	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID	VOC's	Technical Toxaphene/Total	(struck)	REMARKS
6/1/10	1455	MW-5S	G	X				3	~~3~~ RM	~~3~~	
6/1/10	1540	MW-4	↓	↓				3			
6/1/10	1345	MW-7	↓	↓				3			
6/1/10	1500	MW-5I	↓	↓				3	2	~~2~~	
6/1/10		Trip Blank Lot 057110	G	X							

NUMBER OF CONTAINERS SUBMITTED

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	6/1/10	1630						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
George R Conner	6/2/10	0929	YES ○ NO ○		680-58180	3.1°C

Login Sample Receipt Check List

Client: Ashland Inc.

Job Number: 680-58180-1

Login Number: 58180

List Source: TestAmerica Savannah

Creator: Conner, Keaton

List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.1 C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	N/A	
Sample Preservation Verified	True	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 680-58232-1

Job Description: Ashland Brunswick RFI GW June 2010

For:
Ashland Inc.
500 Hercules Road
Wilmington, DE 19894

Attention: Timothy Hassett

Approved for release.
Lidya Gulizia
Project Manager I
6/29/2010 6:27 PM

Lidya Gulizia
Project Manager I
lidya.gulizia@testamericainc.com
06/29/2010

cc: Kelley Baker
Mr. Leroy Bishop
Mr. Dennis Brunner
Ryan Cate
Mr. Tony Mancini
Ms. Charlene Rivard

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

Savannah Certifications and ID #s: A2LA: 0399.01; AL: 41450; ARDEQ: 88-0692; ARDOH; AZ: AZ0741; CA: 03217CA; CO; CT: PH0161; DE; FL: E87052; GA: 803; Guam; HI; IL: 200022; IN; IA: 353; KS: E-10322; KY EPPC: 90084; KY UST; LA DEQ: 30690; LA DHH: LA080008; ME: 2008022; MD: 250; MA: M-GA006; MI: 9925; MS; NFESC: 249; NV: GA00006; NJ: GA769; NM; NY: 10842; NC DWQ: 269; NC DHHS: 13701; PA: 68-00474; PR: GA00006; RI: LAO00244; SC: 98001001; TN: TN0296; TX: T104704185; USEPA: GA00006; VT: VT-87052; VA: 00302; WA; WV DEP: 094; WV DHHR: 9950 C; WI DNR: 999819810; WY/EPAR8: 8TMS-Q

TestAmerica Laboratories, Inc.
TestAmerica Savannah 5102 LaRoche Avenue, Savannah, GA 31404
Tel (912) 354-7858 Fax (912) 352-0165 www.testamericainc.com

ACCREDITED IN ACCORDANCE WITH nelac

Job Narrative
680-58232-1

Receipt
All samples were received in good condition within temperature requirements.

GC/MS VOA
Method(s) 8260B: A full list spike was utilized for this method. Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for four analytes to recover outside criteria for this method when a full list spike is utilized. The LCSD associated with batch 170857 had one analyte outside control limits; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method(s) 8260B: A full list spike was utilized for this method. Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for four analytes to recover outside criteria for this method when a full list spike is utilized. The MS associated with batch 170857 had two analytes outside control limits; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method(s) 8260B: A full list spike was utilized for this method. Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for four analytes to recover outside criteria for this method when a full list spike is utilized. The MSD associated with batch 170857 had one analyte outside control limits; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method(s) 8260B: A full list spike was utilized for this method. Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for four analytes to recover outside criteria for this method when a full list spike is utilized. The LCSD associated with batch 171008 had one analyte outside control limits; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

No other analytical or quality issues were noted.

GC Semi VOA
Method(s) 8081A_8082: Two surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample(s) contained an allowable number of surrogate compounds outside limits: MW20S (680-58232-8). These results have been reported and qualified.

No other analytical or quality issues were noted.

Metals
No analytical or quality issues were noted.

Comments
No additional comments.

METHOD SUMMARY

Client: Ashland Inc. Job Number: 680-58232-1

Description	Lab Location	Method	Preparation Method
Matrix Water			
Volatile Organic Compounds (GC/MS)	TAL SAV	SW846 8260B	
Purge and Trap	TAL SAV		SW846 5030B
Organochlorine Pesticides & PCBs (GC)	TAL SAV	SW846 8081A_8082	
Liquid-Liquid Extraction (Continuous)	TAL SAV		SW846 3520C
Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography	TAL SAV	SW846 8081B/8082A	
Liquid-Liquid Extraction (Continuous)	TAL SAV		SW846 3520C
Metals (ICP)	TAL SAV	SW846 6010B	
Preparation, Total Recoverable or Dissolved Metals	TAL SAV		SW846 3005A
Mercury (CVAA)	TAL SAV	SW846 7470A	
Preparation, Mercury	TAL SAV		SW846 7470A

Lab References:

TAL SAV = TestAmerica Savannah

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Ashland Inc. Job Number: 680-58232-1

Method	Analyst	Analyst ID
SW846 8260B	Lanier, Carolyn	CL
SW846 8081A_8082	Kellar, Joshua	JK
SW846 8081B/8082A	Kellar, Joshua	JK
SW846 6010B	Bland, Brian	BCB
SW846 7470A	Eaton, Cliff	CE

SAMPLE SUMMARY

Client: Ashland Inc. Job Number: 680-58232-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-58232-1	MW39D	Water	06/01/1090 9000	06L03L2010 1256
680-58232-2	MW39I	Water	06/02/2010 1050	06/03/2010 1256
680-58232-3	MW20D	Water	06/02/2010 1200	06/03/2010 1256
680-58232-4	MW38D	Water	06/02/2010 1300	06/03/2010 1256
680-58232-5	MW38I	Water	06/02/2010 1400	06/03/2010 1256
680-58232-6	MW48D	Water	06/02/2010 1530	06/03/2010 1256
680-58232-7	MW13	Water	06/02/2010 1320	06/03/2010 1256
680-58232-8	MW20S	Water	06/02/2010 1035	06/03/2010 1256
680-58232-9	MW8	Water	06/02/2010 0740	06/03/2010 1256
680-58232-10	MW6	Water	06/02/2010 0820	06/03/2010 1256
680-58232-11	MW39S	Water	06/02/2010 0930	06/03/2010 1256
680-58232-12	MW38S	Water	06/02/2010 1025	06/03/2010 1256
680-58232-13	MW20I	Water	06/02/2010 1230	06/03/2010 1256
680-58232-14TB	Trip Blank 051110	Water	06/02/2010 0000	06/03/2010 1256

SAMPLE RESULTS

Client: Ashland Inc. Job Number: 680-58232-1

Client Sample ID: **MW39D**

Lab Sample ID: 680-58232-1 Date Sampled: 06/02/2010 1000
Client Matrix: Water Date Received: 06/03/2010 1256

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-170857 Instrument ID: MSP2
Preparation: 5030B Lab File ID: p0170.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/08/2010 1527 Final Weight/Volume: 5 mL
Date Prepared: 06/08/2010 1527

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U *	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-58232-1

Client Sample ID: **MW39D**

Lab Sample ID: 680-58232-1 Date Sampled: 06/02/2010 1000
Client Matrix: Water Date Received: 06/03/2010 1256

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-170857 Instrument ID: MSP2
Preparation: 5030B Lab File ID: p0170.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/08/2010 1527 Final Weight/Volume: 5 mL
Date Prepared: 06/08/2010 1527

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	96		75 - 120
Dibromofluoromethane	94		75 - 121
Toluene-d8 (Surr)	107		75 - 120

Client: Ashland Inc. Job Number: 680-58232-1

Client Sample ID: **MW39A**

Lab Sample ID: 680-58232-2 Date Sampled: 06/02/2010 1050
Client Matrix: Water Date Received: 06/03/2010 1256

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-170857 Instrument ID: MSP2
Preparation: 5030B Lab File ID: p0172.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/08/2010 1557 Final Weight/Volume: 5 mL
Date Prepared: 06/08/2010 1557

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U *	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	0.57	J	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-58232-1

Client Sample ID: **MW39A**

Lab Sample ID: 680-58232-2 Date Sampled: 06/02/2010 1050
Client Matrix: Water Date Received: 06/03/2010 1256

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-170857 Instrument ID: MSP2
Preparation: 5030B Lab File ID: p0172.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/08/2010 1557 Final Weight/Volume: 5 mL
Date Prepared: 06/08/2010 1557

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	96		75 - 120
Dibromofluoromethane	90		75 - 121
Toluene-d8 (Surr)	106		75 - 120

Client: Ashland Inc. Job Number: 680-58232-1

Client Sample ID: **MW20D**

Lab Sample ID: 680-58232-3 Date Sampled: 06/02/2010 1200
Client Matrix: Water Date Received: 06/03/2010 1256

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-171008 Instrument ID: MSP2
Preparation: 5030B Lab File ID: p0216.d
Dilution: 4.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/09/2010 1249 Final Weight/Volume: 5 mL
Date Prepared: 06/09/2010 1249

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	100	U	20	100
Acetonitrile	160	U	40	160
Acrolein	80	U	30	80
Acrylonitrile	80	U	29	80
Benzene	320		1.0	4.0
Bromoform	4.0	U	2.0	4.0
Bromomethane	4.0	U *	3.2	4.0
2-Butanone (MEK)	40	U	4.0	40
Carbon disulfide	8.0	U	2.4	8.0
Carbon tetrachloride	4.0	U	2.0	4.0
Chlorobenzene	250		1.0	4.0
2-Chloro-1,3-butadiene	4.0	U	1.2	4.0
Chlorodibromomethane	4.0	U	0.40	4.0
Chloroethane	4.0	U	4.0	4.0
Chloroform	4.0	U	0.56	4.0
Chloromethane	4.0	U	1.3	4.0
3-Chloro-1-propene	4.0	U	0.80	4.0
cis-1,3-Dichloropropene	4.0	U	0.44	4.0
1,2-Dibromo-3-Chloropropane	4.0	U	1.8	4.0
Dibromomethane	4.0	U	0.80	4.0
Dichlorobromomethane	4.0	U	1.0	4.0
Dichlorodifluoromethane	4.0	U	1.0	4.0
1,1-Dichloroethane	4.0	U	1.0	4.0
1,2-Dichloroethane	4.0	U	0.40	4.0
1,1-Dichloroethene	4.0	U	0.44	4.0
1,2-Dichloropropane	4.0	U	0.52	4.0
Ethylbenzene	2.2	J	0.44	4.0
Ethylene Dibromide	4.0	U	1.0	4.0
Ethyl methacrylate	4.0	U	1.0	4.0
2-Hexanone	40	U	4.0	40
Iodomethane	20	U	4.0	20
Isobutyl alcohol	160	U	44	160
Methacrylonitrile	80	U	13	80
Methylene Chloride	20	U	4.0	20
Methyl methacrylate	4.0	U	1.9	4.0
4-Methyl-2-pentanone (MIBK)	40	U	4.0	40
Pentachloroethane	20	U	4.8	20
Propionitrile	80	U	18	80
Styrene	4.0	U	0.44	4.0
1,1,1,2-Tetrachloroethane	4.0	U	1.3	4.0
1,1,2,2-Tetrachloroethane	4.0	U	0.72	4.0
Tetrachloroethene	4.0	U	0.60	4.0
Toluene	3.0	J	1.3	4.0
trans-1,4-Dichloro-2-butene	8.0	U	2.0	8.0
trans-1,2-Dichloroethene	4.0	U	0.80	4.0
trans-1,3-Dichloropropene	4.0	U	0.84	4.0

Client: Ashland Inc. Job Number: 680-58232-1

Client Sample ID: **MW20D**

Lab Sample ID: 680-58232-3 Date Sampled: 06/02/2010 1200
Client Matrix: Water Date Received: 06/03/2010 1256

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-171008 Instrument ID: MSP2
Preparation: 5030B Lab File ID: p0216.d
Dilution: 4.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/09/2010 1249 Final Weight/Volume: 5 mL
Date Prepared: 06/09/2010 1249

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	4.0	U	2.0	4.0
1,1,2-Trichloroethane	4.0	U	0.52	4.0
Trichloroethene	4.0	U	0.52	4.0
Trichlorofluoromethane	4.0	U	1.0	4.0
1,2,3-Trichloropropane	4.0	U	1.6	4.0
Vinyl acetate	8.0	U	1.1	8.0
Vinyl chloride	4.0	U	0.72	4.0
Xylenes, Total	6.8	J	0.80	8.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	98		75 - 120
Dibromofluoromethane	92		75 - 121
Toluene-d8 (Surr)	105		75 - 120

Client: Ashland Inc. Job Number: 680-58232-1

Client Sample ID: **MW38D**

Lab Sample ID: 680-58232-4 Date Sampled: 06/02/2010 1300
Client Matrix: Water Date Received: 06/03/2010 1256

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-171008 Instrument ID: MSP2
Preparation: 5030B Lab File ID: p0218.d
Dilution: 5.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/09/2010 1319 Final Weight/Volume: 5 mL
Date Prepared: 06/09/2010 1319

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	120	U	25	120
Acetonitrile	200	U	50	200
Acrolein	100	U	37	100
Acrylonitrile	100	U	36	100
Benzene	920		1.2	5.0
Bromoform	5.0	U	2.5	5.0
Bromomethane	5.0	U *	4.0	5.0
2-Butanone (MEK)	50	U	5.0	50
Carbon disulfide	10	U	3.0	10
Carbon tetrachloride	5.0	U	2.5	5.0
Chlorobenzene	480		1.2	5.0
2-Chloro-1,3-butadiene	5.0	U	1.5	5.0
Chlorodibromomethane	5.0	U	0.50	5.0
Chloroethane	5.0	U	5.0	5.0
Chloroform	5.0	U	0.70	5.0
Chloromethane	5.0	U	1.6	5.0
3-Chloro-1-propene	5.0	U	1.0	5.0
cis-1,3-Dichloropropene	5.0	U	0.55	5.0
1,2-Dibromo-3-Chloropropane	5.0	U	2.2	5.0
Dibromomethane	5.0	U	1.0	5.0
Dichlorobromomethane	5.0	U	1.2	5.0
Dichlorodifluoromethane	5.0	U	1.2	5.0
1,1-Dichloroethane	5.0	U	1.2	5.0
1,2-Dichloroethane	5.0	U	0.50	5.0
1,1-Dichloroethene	5.0	U	0.55	5.0
1,2-Dichloropropane	5.0	U	0.65	5.0
Ethylbenzene	53		0.55	5.0
Ethylene Dibromide	5.0	U	1.2	5.0
Ethyl methacrylate	5.0	U	1.2	5.0
2-Hexanone	50	U	5.0	50
Iodomethane	25	U	5.0	25
Isobutyl alcohol	200	U	55	200
Methacrylonitrile	100	U	16	100
Methylene Chloride	25	U	5.0	25
Methyl methacrylate	5.0	U	2.4	5.0
4-Methyl-2-pentanone (MIBK)	50	U	5.0	50
Pentachloroethane	25	U	6.0	25
Propionitrile	100	U	23	100
Styrene	5.0	U	0.55	5.0
1,1,1,2-Tetrachloroethane	5.0	U	1.6	5.0
1,1,2,2-Tetrachloroethane	5.0	U	0.90	5.0
Tetrachloroethene	5.0	U	0.75	5.0
Toluene	15		1.6	5.0
trans-1,4-Dichloro-2-butene	10	U	2.5	10
trans-1,2-Dichloroethene	5.0	U	1.0	5.0
trans-1,3-Dichloropropene	5.0	U	1.0	5.0

Client: Ashland Inc. Job Number: 680-58232-1

Client Sample ID: **MW38D**

Lab Sample ID: 680-58232-4 Date Sampled: 06/02/2010 1300
Client Matrix: Water Date Received: 06/03/2010 1256

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-171008 Instrument ID: MSP2
Preparation: 5030B Lab File ID: p0218.d
Dilution: 5.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/09/2010 1319 Final Weight/Volume: 5 mL
Date Prepared: 06/09/2010 1319

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	5.0	U	2.5	5.0
1,1,2-Trichloroethane	5.0	U	0.65	5.0
Trichloroethene	5.0	U	0.65	5.0
Trichlorofluoromethane	5.0	U	1.2	5.0
1,2,3-Trichloropropane	5.0	U	2.0	5.0
Vinyl acetate	10	U	1.4	10
Vinyl chloride	3.9	J	0.90	5.0
Xylenes, Total	150		1.0	10

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	100		75 - 120
Dibromofluoromethane	94		75 - 121
Toluene-d8 (Surr)	107		75 - 120

Client: Ashland Inc. Job Number: 680-58232-1

Client Sample ID: **MW38I**

Lab Sample ID: 680-58232-5 Date Sampled: 06/02/2010 1400
Client Matrix: Water Date Received: 06/03/2010 1256

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-171009 Instrument ID: MSP
Preparation: 5030B Lab File ID: p0215.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/09/2010 1235 Final Weight/Volume: 5 mL
Date Prepared: 06/09/2010 1235

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	0.30	J	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-58232-1

Client Sample ID: **MW38I**

Lab Sample ID: 680-58232-5 Date Sampled: 06/02/2010 1400
Client Matrix: Water Date Received: 06/03/2010 1256

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-171009 Instrument ID: MSP
Preparation: 5030B Lab File ID: p0215.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/09/2010 1235 Final Weight/Volume: 5 mL
Date Prepared: 06/09/2010 1235

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	85		75 - 120
Dibromofluoromethane	99		75 - 121
Toluene-d8 (Surr)	99		75 - 120

Client: Ashland Inc. Job Number: 680-58232-1

Client Sample ID: **MW48D**

Lab Sample ID: 680-58232-6 Date Sampled: 06/02/2010 1530
Client Matrix: Water Date Received: 06/03/2010 1256

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-170857 Instrument ID: MSP2
Preparation: 5030B Lab File ID: p0188.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/08/2010 1953 Final Weight/Volume: 5 mL
Date Prepared: 06/08/2010 1953

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	33		5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	27		0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U *	0.80	1.0
2-Butanone (MEK)	1.6	J	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	4.4		0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	2.5	J	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	12		0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-58232-1

Client Sample ID: **MW48D**

Lab Sample ID: 680-58232-6 Date Sampled: 06/02/2010 1530
Client Matrix: Water Date Received: 06/03/2010 1256

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-170857 Instrument ID: MSP2
Preparation: 5030B Lab File ID: p0188.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/08/2010 1953 Final Weight/Volume: 5 mL
Date Prepared: 06/08/2010 1953

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	7.8		0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	102		75 - 120
Dibromofluoromethane	90		75 - 121
Toluene-d8 (Surr)	105		75 - 120

Client: Ashland Inc. Job Number: 680-58232-1

Client Sample ID: **MW13**

Lab Sample ID: 680-58232-7 Date Sampled: 06/02/2010 1320
Client Matrix: Water Date Received: 06/03/2010 1256

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-170857 Instrument ID: MSP2
Preparation: 5030B Lab File ID: p0190.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/08/2010 2023 Final Weight/Volume: 5 mL
Date Prepared: 06/08/2010 2023

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U *	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-58232-1

Client Sample ID: **MW13**

Lab Sample ID: 680-58232-7 Date Sampled: 06/02/2010 1320
Client Matrix: Water Date Received: 06/03/2010 1256

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-170857 Instrument ID: MSP2
Preparation: 5030B Lab File ID: p0190.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/08/2010 2023 Final Weight/Volume: 5 mL
Date Prepared: 06/08/2010 2023

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	97		75 - 120
Dibromofluoromethane	95		75 - 121
Toluene-d8 (Surr)	107		75 - 120

Client: Ashland Inc. Job Number: 680-58232-1

Client Sample ID: **MW20S**

Lab Sample ID: 680-58232-8 Date Sampled: 06/02/2010 1035
Client Matrix: Water Date Received: 06/03/2010 1256

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-170857 Instrument ID: MSP2
Preparation: 5030B Lab File ID: p0192.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/08/2010 2053 Final Weight/Volume: 5 mL
Date Prepared: 06/08/2010 2053

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	21	J	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U *	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-58232-1

Client Sample ID: **MW20S**

Lab Sample ID: 680-58232-8 Date Sampled: 06/02/2010 1035
Client Matrix: Water Date Received: 06/03/2010 1256

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-170857 Instrument ID: MSP2
Preparation: 5030B Lab File ID: p0192.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/08/2010 2053 Final Weight/Volume: 5 mL
Date Prepared: 06/08/2010 2053

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	95		75 - 120
Dibromofluoromethane	96		75 - 121
Toluene-d8 (Surr)	107		75 - 120

Client: Ashland Inc. Job Number: 680-58232-1

Client Sample ID: **MW8**

Lab Sample ID: 680-58232-9 Date Sampled: 06/02/2010 0740
Client Matrix: Water Date Received: 06/03/2010 1256

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-170853 Instrument ID: MSP
Preparation: 5030B Lab File ID: p0187.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/08/2010 1939 Final Weight/Volume: 5 mL
Date Prepared: 06/08/2010 1939

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	9.6	J	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	180		0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	200		0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	0.47	J	0.13	1.0
Ethylbenzene	0.66	J	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.3		0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-58232-1

Client Sample ID: **MW8**

Lab Sample ID: 680-58232-9 Date Sampled: 06/02/2010 0740
Client Matrix: Water Date Received: 06/03/2010 1256

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-170853 Instrument ID: MSP
Preparation: 5030B Lab File ID: p0187.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/08/2010 1939 Final Weight/Volume: 5 mL
Date Prepared: 06/08/2010 1939

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	5.0		0.18	1.0
Xylenes, Total	3.8		0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	92		75 - 120
Dibromofluoromethane	93		75 - 121
Toluene-d8 (Surr)	99		75 - 120

Client: Ashland Inc. Job Number: 680-58232-1

Client Sample ID: **MW6**

Lab Sample ID: 680-58232-10 Date Sampled: 06/02/2010 0820
Client Matrix: Water Date Received: 06/03/2010 1256

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-170853 Instrument ID: MSP
Preparation: 5030B Lab File ID: p0189.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/08/2010 2008 Final Weight/Volume: 5 mL
Date Prepared: 06/08/2010 2008

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	5.5		0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	2.3		0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	0.19	J	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-58232-1

Client Sample ID: **MW6**

Lab Sample ID: 680-58232-10 Date Sampled: 06/02/2010 0820
Client Matrix: Water Date Received: 06/03/2010 1256

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-170853		Instrument ID:	MSP
Preparation:	5030B			Lab File ID:	p0189.d
Dilution:	1.0			Initial Weight/Volume:	5 mL
Date Analyzed:	06/08/2010 2008			Final Weight/Volume:	5 mL
Date Prepared:	06/08/2010 2008				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	0.33	J	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	87		75 - 120
Dibromofluoromethane	101		75 - 121
Toluene-d8 (Surr)	99		75 - 120

Client: Ashland Inc. Job Number: 680-58232-1

Client Sample ID: **MW39S**

Lab Sample ID: 680-58232-11 Date Sampled: 06/02/2010 0930
Client Matrix: Water Date Received: 06/03/2010 1256

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-170853 Instrument ID: MSP
Preparation: 5030B Lab File ID: p0191.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/08/2010 2038 Final Weight/Volume: 5 mL
Date Prepared: 06/08/2010 2038

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	19	J	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	0.34	J	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	14		0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	2.0		0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-58232-1

Client Sample ID: **MW39S**

Lab Sample ID: 680-58232-11 Date Sampled: 06/02/2010 0930
Client Matrix: Water Date Received: 06/03/2010 1256

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-170853 Instrument ID: MSP
Preparation: 5030B Lab File ID: p0191.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/08/2010 2038 Final Weight/Volume: 5 mL
Date Prepared: 06/08/2010 2038

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	79		0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	86		75 - 120
Dibromofluoromethane	99		75 - 121
Toluene-d8 (Surr)	100		75 - 120

Client: Ashland Inc. Job Number: 680-58232-1

Client Sample ID: **MW38S**

Lab Sample ID: 680-58232-12 Date Sampled: 06/02/2010 1025
Client Matrix: Water Date Received: 06/03/2010 1256

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-170853 Instrument ID: MSP
Preparation: 5030B Lab File ID: p0185.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/08/2010 1909 Final Weight/Volume: 5 mL
Date Prepared: 06/08/2010 1909

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	7.5	J	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-58232-1

Client Sample ID: **MW38S**

Lab Sample ID: 680-58232-12 Date Sampled: 06/02/2010 1025
Client Matrix: Water Date Received: 06/03/2010 1256

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-170853 Instrument ID: MSP
Preparation: 5030B Lab File ID: p0185.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/08/2010 1909 Final Weight/Volume: 5 mL
Date Prepared: 06/08/2010 1909

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	87		75 - 120
Dibromofluoromethane	97		75 - 121
Toluene-d8 (Surr)	98		75 - 120

Client: Ashland Inc. Job Number: 680-58232-1

Client Sample ID: **MW20I**

Lab Sample ID: 680-58232-13 Date Sampled: 06/02/2010 1230
Client Matrix: Water Date Received: 06/03/2010 1256

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-171009 Instrument ID: MSP
Preparation: 5030B Lab File ID: p0217.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/09/2010 1304 Final Weight/Volume: 5 mL
Date Prepared: 06/09/2010 1304

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-58232-1

Client Sample ID: **MW20I**

Lab Sample ID: 680-58232-13 Date Sampled: 06/02/2010 1230
Client Matrix: Water Date Received: 06/03/2010 1256

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-171009 Instrument ID: MSP
Preparation: 5030B Lab File ID: p0217.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/09/2010 1304 Final Weight/Volume: 5 mL
Date Prepared: 06/09/2010 1304

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	86		75 - 120
Dibromofluoromethane	101		75 - 121
Toluene-d8 (Surr)	99		75 - 120

Client: Ashland Inc. Job Number: 680-58232-1

Client Sample ID: **Trip Blank 051110**

Lab Sample ID: 680-58232-14TB Date Sampled: 06/02/2010 0000
Client Matrix: Water Date Received: 06/03/2010 1256

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-170857 Instrument ID: MSP2
Preparation: 5030B Lab File ID: p0168.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/08/2010 1457 Final Weight/Volume: 5 mL
Date Prepared: 06/08/2010 1457

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U *	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-58232-1

Client Sample ID: **Trip Blank 051110**

Lab Sample ID: 680-58232-14TB Date Sampled: 06/02/2010 0000
Client Matrix: Water Date Received: 06/03/2010 1256

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-170857		Instrument ID:	MSP2
Preparation:	5030B			Lab File ID:	p0168.d
Dilution:	1.0			Initial Weight/Volume:	5 mL
Date Analyzed:	06/08/2010 1457			Final Weight/Volume:	5 mL
Date Prepared:	06/08/2010 1457				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	94		75 - 120
Dibromofluoromethane	98		75 - 121
Toluene-d8 (Surr)	107		75 - 120

Client: Ashland Inc. Job Number: 680-58232-1

Client Sample ID: **MW38D**

Lab Sample ID: 680-58232-4 Date Sampled: 06/02/2010 1300
Client Matrix: Water Date Received: 06/03/2010 1256

8081A_8082 Organochlorine Pesticides & PCBs (GC)

Method:	8081A_8082	Analysis Batch: 680-171114		Instrument ID:	SGM
Preparation:	3520C	Prep Batch: 680-170727		Initial Weight/Volume:	500 mL
Dilution:	1.0			Final Weight/Volume:	5 mL
Date Analyzed:	06/09/2010 1942			Injection Volume:	2 uL
Date Prepared:	06/07/2010 1421			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Total	8.9		0.50	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	34		14 - 115
Tetrachloro-m-xylene	41		35 - 120

Client: Ashland Inc. Job Number: 680-58232-1

Client Sample ID: **MW38I**

Lab Sample ID: 680-58232-5 Date Sampled: 06/02/2010 1400
Client Matrix: Water Date Received: 06/03/2010 1256

8081A_8082 Organochlorine Pesticides & PCBs (GC)

Method:	8081A_8082	Analysis Batch: 680-171114		Instrument ID:	SGM
Preparation:	3520C	Prep Batch: 680-170727		Initial Weight/Volume:	500 mL
Dilution:	1.0			Final Weight/Volume:	5 mL
Date Analyzed:	06/09/2010 2001			Injection Volume:	2 uL
Date Prepared:	06/07/2010 1421			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Total	5.0	U	0.50	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	78		14 - 115
Tetrachloro-m-xylene	66		35 - 120

Client: Ashland Inc. Job Number: 680-58232-1

Client Sample ID: **MW20S**

Lab Sample ID: 680-58232-8 Date Sampled: 06/02/2010 1035
Client Matrix: Water Date Received: 06/03/2010 1256

8081A_8082 Organochlorine Pesticides & PCBs (GC)

Method:	8081A_8082	Analysis Batch: 680-171114		Instrument ID:	SGM
Preparation:	3520C	Prep Batch: 680-170727		Initial Weight/Volume:	1050 mL
Dilution:	1.0			Final Weight/Volume:	10 mL
Date Analyzed:	06/09/2010 2020			Injection Volume:	2 uL
Date Prepared:	06/07/2010 1421			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Total	4.8	U	0.48	4.8

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	11	X	14 - 115
Tetrachloro-m-xylene	45		35 - 120

Client: Ashland Inc. Job Number: 680-58232-1

Client Sample ID: **MW38S**

Lab Sample ID: 680-58232-12 Date Sampled: 06/02/2010 1025
Client Matrix: Water Date Received: 06/03/2010 1256

8081A_8082 Organochlorine Pesticides & PCBs (GC)

Method:	8081A_8082	Analysis Batch: 680-171114		Instrument ID:	SGM
Preparation:	3520C	Prep Batch: 680-170727		Initial Weight/Volume:	1060 mL
Dilution:	1.0			Final Weight/Volume:	10 mL
Date Analyzed:	06/09/2010 2040			Injection Volume:	2 uL
Date Prepared:	06/07/2010 1421			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Total	4.7	U	0.47	4.7

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	22		14 - 115
Tetrachloro-m-xylene	64		35 - 120

Client: Ashland Inc. Job Number: 680-58232-1

Client Sample ID: **MW20I**

Lab Sample ID: 680-58232-13 Date Sampled: 06/02/2010 1230
Client Matrix: Water Date Received: 06/03/2010 1256

8081A_8082 Organochlorine Pesticides & PCBs (GC)

Method:	8081A_8082	Analysis Batch: 680-171114		Instrument ID:	SGM
Preparation:	3520C	Prep Batch: 680-170727		Initial Weight/Volume:	1060 mL
Dilution:	1.0			Final Weight/Volume:	10 mL
Date Analyzed:	06/09/2010 2059			Injection Volume:	2 uL
Date Prepared:	06/07/2010 1421			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Total	4.7	U	0.47	4.7

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	20		14 - 115
Tetrachloro-m-xylene	58		35 - 120

Client: Ashland Inc. Job Number: 680-58232-1

Client Sample ID: **MW38D**

Lab Sample ID: 680-58232-4 Date Sampled: 06/02/2010 1300
Client Matrix: Water Date Received: 06/03/2010 1256

8081B/8082A Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Method:	8081B/8082A	Analysis Batch: 680-171118		Instrument ID:	SGM
Preparation:	3520C	Prep Batch: 680-170727		Initial Weight/Volume:	500 mL
Dilution:	1.0			Final Weight/Volume:	5 mL
Date Analyzed:	06/09/2010 1942			Injection Volume:	2 uL
Date Prepared:	06/07/2010 1421			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Technical	5.0	U	0.50	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	34		14 - 115
Tetrachloro-m-xylene	41		35 - 120

Client: Ashland Inc. Job Number: 680-58232-1

Client Sample ID: **MW38I**

Lab Sample ID: 680-58232-5 Date Sampled: 06/02/2010 1400
Client Matrix: Water Date Received: 06/03/2010 1256

8081B/8082A Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Method:	8081B/8082A	Analysis Batch: 680-171118		Instrument ID:	SGM
Preparation:	3520C	Prep Batch: 680-170727		Initial Weight/Volume:	500 mL
Dilution:	1.0			Final Weight/Volume:	5 mL
Date Analyzed:	06/09/2010 2001			Injection Volume:	2 uL
Date Prepared:	06/07/2010 1421			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Technical	5.0	U	0.50	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	78		14 - 115
Tetrachloro-m-xylene	66		35 - 120

Client: Ashland Inc. Job Number: 680-58232-1

Client Sample ID: **MW20S**

Lab Sample ID: 680-58232-8 Date Sampled: 06/02/2010 1035
Client Matrix: Water Date Received: 06/03/2010 1256

8081B/8082A Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Method:	8081B/8082A	Analysis Batch: 680-171118		Instrument ID:	SGM
Preparation:	3520C	Prep Batch: 680-170727		Initial Weight/Volume:	1050 mL
Dilution:	1.0			Final Weight/Volume:	10 mL
Date Analyzed:	06/09/2010 2020			Injection Volume:	2 uL
Date Prepared:	06/07/2010 1421			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Technical	4.8	U	0.48	4.8

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	11	X	14 - 115
Tetrachloro-m-xylene	45		35 - 120

Client: Ashland Inc. Job Number: 680-58232-1

Client Sample ID: **MW38S**

Lab Sample ID: 680-58232-12 Date Sampled: 06/02/2010 1025
Client Matrix: Water Date Received: 06/03/2010 1256

8081B/8082A Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Method:	8081B/8082A	Analysis Batch: 680-171118		Instrument ID:	SGM
Preparation:	3520C	Prep Batch: 680-170727		Initial Weight/Volume:	1060 mL
Dilution:	1.0			Final Weight/Volume:	10 mL
Date Analyzed:	06/09/2010 2040			Injection Volume:	2 uL
Date Prepared:	06/07/2010 1421			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Technical	4.7	U	0.47	4.7

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	22		14 - 115
Tetrachloro-m-xylene	64		35 - 120

Client: Ashland Inc. Job Number: 680-58232-1

Client Sample ID: **MW20I**

Lab Sample ID: 680-58232-13 Date Sampled: 06/02/2010 1230
Client Matrix: Water Date Received: 06/03/2010 1256

8081B/8082A Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Method:	8081B/8082A	Analysis Batch: 680-171118		Instrument ID:	SGM
Preparation:	3520C	Prep Batch: 680-170727		Initial Weight/Volume:	1060 mL
Dilution:	1.0			Final Weight/Volume:	10 mL
Date Analyzed:	06/09/2010 2059			Injection Volume:	2 uL
Date Prepared:	06/07/2010 1421			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Technical	4.7	U	0.47	4.7

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	20		14 - 115
Tetrachloro-m-xylene	58		35 - 120

Client: Ashland Inc. Job Number: 680-58232-1

Client Sample ID: **MW39D**

Lab Sample ID: 680-58232-1 Date Sampled: 06/02/2010 1000
Client Matrix: Water Date Received: 06/03/2010 1256

6010B Metals (ICP)-Total Recoverable

Method:	6010B	Analysis Batch: 680-171623		Instrument ID:	ICPD
Preparation:	3005A	Prep Batch: 680-171282		Lab File ID:	061510.chr
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	06/15/2010 1553			Final Weight/Volume:	50 mL
Date Prepared:	06/11/2010 1157				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	20	U	5.2	20
Arsenic	20	U	10	20
Barium	76		2.0	10
Beryllium	4.0	U	0.10	4.0
Cadmium	5.0	U	2.0	5.0
Chromium	10		2.0	10
Cobalt	10	U	1.0	10
Copper	20	U	5.0	20
Lead	10	U	3.4	10
Nickel	6.4	J	4.0	40
Selenium	20	U	6.4	20
Silver	10	U	0.97	10
Thallium	25	U	8.7	25
Tin	50	U	5.4	50
Vanadium	10	U	3.0	10
Zinc	20	U	6.3	20

7470A Mercury (CVAA)

Method:	7470A	Analysis Batch: 680-171505		Instrument ID:	LEEMAN1
Preparation:	7470A	Prep Batch: 680-171404		Lab File ID:	b061410.chr
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	06/14/2010 1736			Final Weight/Volume:	50 mL
Date Prepared:	06/14/2010 0910				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.091	0.20

Client: Ashland Inc. Job Number: 680-58232-1

Client Sample ID: **MW39I**

Lab Sample ID: 680-58232-2 Date Sampled: 06/02/2010 1050
Client Matrix: Water Date Received: 06/03/2010 1256

6010B Metals (ICP)-Total Recoverable

Method:	6010B	Analysis Batch: 680-171623		Instrument ID:	ICPD
Preparation:	3005A	Prep Batch: 680-171282		Lab File ID:	061510.chr
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	06/15/2010 1654			Final Weight/Volume:	50 mL
Date Prepared:	06/11/2010 1157				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	20	U	5.2	20
Arsenic	20	U	10	20
Barium	130		2.0	10
Beryllium	4.0	U	0.10	4.0
Cadmium	5.0	U	2.0	5.0
Chromium	27		2.0	10
Cobalt	10	U	1.0	10
Copper	20	U	5.0	20
Lead	10	U	3.4	10
Nickel	12	J	4.0	40
Selenium	20	U	6.4	20
Silver	10	U	0.97	10
Thallium	25	U	8.7	25
Tin	50	U	5.4	50
Vanadium	10	U	3.0	10
Zinc	20	U	6.3	20

7470A Mercury (CVAA)

Method:	7470A	Analysis Batch: 680-171505		Instrument ID:	LEEMAN1
Preparation:	7470A	Prep Batch: 680-171404		Lab File ID:	b061410.chr
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	06/14/2010 1740			Final Weight/Volume:	50 mL
Date Prepared:	06/14/2010 0910				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.091	0.20

Client: Ashland Inc. Job Number: 680-58232-1

Client Sample ID: **MW38D**

Lab Sample ID: 680-58232-4 Date Sampled: 06/02/2010 1300
Client Matrix: Water Date Received: 06/03/2010 1256

6010B Metals (ICP)-Total Recoverable

Method:	6010B	Analysis Batch: 680-171623		Instrument ID:	ICPD
Preparation:	3005A	Prep Batch: 680-171282		Lab File ID:	061510.chr
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	06/15/2010 1659			Final Weight/Volume:	50 mL
Date Prepared:	06/11/2010 1157				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	20	U	5.2	20
Arsenic	20	U	10	20
Barium	440		2.0	10
Beryllium	4.0	U	0.10	4.0
Cadmium	5.0	U	2.0	5.0
Chromium	4.4	J	2.0	10
Cobalt	10	U	1.0	10
Copper	20	U	5.0	20
Lead	10	U	3.4	10
Nickel	40	U	4.0	40
Selenium	20	U	6.4	20
Silver	10	U	0.97	10
Thallium	25	U	8.7	25
Tin	50	U	5.4	50
Vanadium	10	U	3.0	10
Zinc	20		6.3	20

7470A Mercury (CVAA)

Method:	7470A	Analysis Batch: 680-171505		Instrument ID:	LEEMAN1
Preparation:	7470A	Prep Batch: 680-171404		Lab File ID:	b061410.chr
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	06/14/2010 1742			Final Weight/Volume:	50 mL
Date Prepared:	06/14/2010 0910				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.091	0.20

Client: Ashland Inc. Job Number: 680-58232-1

Client Sample ID: **MW38I**

Lab Sample ID: 680-58232-5 Date Sampled: 06/02/2010 1400
Client Matrix: Water Date Received: 06/03/2010 1256

6010B Metals (ICP)-Total Recoverable

Method:	6010B	Analysis Batch: 680-171623		Instrument ID:	ICPD
Preparation:	3005A	Prep Batch: 680-171282		Lab File ID:	061510.chr
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	06/15/2010 1704			Final Weight/Volume:	50 mL
Date Prepared:	06/11/2010 1157				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	20	U	5.2	20
Arsenic	20	U	10	20
Barium	41		2.0	10
Beryllium	4.0	U	0.10	4.0
Cadmium	5.0	U	2.0	5.0
Chromium	2.3	J	2.0	10
Cobalt	10	U	1.0	10
Copper	20	U	5.0	20
Lead	10	U	3.4	10
Nickel	40	U	4.0	40
Selenium	20	U	6.4	20
Silver	10	U	0.97	10
Thallium	25	U	8.7	25
Tin	50	U	5.4	50
Vanadium	10	U	3.0	10
Zinc	6.8	J	6.3	20

7470A Mercury (CVAA)

Method:	7470A	Analysis Batch: 680-171505		Instrument ID:	LEEMAN1
Preparation:	7470A	Prep Batch: 680-171404		Lab File ID:	b061410.chr
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	06/14/2010 1753			Final Weight/Volume:	50 mL
Date Prepared:	06/14/2010 0910				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.091	0.20

Client: Ashland Inc. Job Number: 680-58232-1

Client Sample ID: **MW39S**

Lab Sample ID: 680-58232-11 Date Sampled: 06/02/2010 0930
Client Matrix: Water Date Received: 06/03/2010 1256

6010B Metals (ICP)-Total Recoverable

Method:	6010B	Analysis Batch: 680-171623		Instrument ID:	ICPD
Preparation:	3005A	Prep Batch: 680-171282		Lab File ID:	061510.chr
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	06/15/2010 1709			Final Weight/Volume:	50 mL
Date Prepared:	06/11/2010 1157				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	20	U	5.2	20
Arsenic	20	U	10	20
Barium	200		2.0	10
Beryllium	4.0	U	0.10	4.0
Cadmium	5.0	U	2.0	5.0
Chromium	6.6	J	2.0	10
Cobalt	2.3	J	1.0	10
Copper	20	U	5.0	20
Lead	10	U	3.4	10
Nickel	40	U	4.0	40
Selenium	20	U	6.4	20
Silver	10	U	0.97	10
Thallium	25	U	8.7	25
Tin	50	U	5.4	50
Vanadium	3.6	J	3.0	10
Zinc	13	J	6.3	20

7470A Mercury (CVAA)

Method:	7470A	Analysis Batch: 680-171505		Instrument ID:	LEEMAN1
Preparation:	7470A	Prep Batch: 680-171404		Lab File ID:	b061410.chr
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	06/14/2010 1756			Final Weight/Volume:	50 mL
Date Prepared:	06/14/2010 0910				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.091	0.20

Client: Ashland Inc. Job Number: 680-58232-1

Client Sample ID: **MW38S**

Lab Sample ID: 680-58232-12 Date Sampled: 06/02/2010 1025
Client Matrix: Water Date Received: 06/03/2010 1256

6010B Metals (ICP)-Total Recoverable

Method:	6010B	Analysis Batch: 680-171623		Instrument ID:	ICPD
Preparation:	3005A	Prep Batch: 680-171282		Lab File ID:	061510.chr
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	06/15/2010 1714			Final Weight/Volume:	50 mL
Date Prepared:	06/11/2010 1157				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	20	U	5.2	20
Arsenic	20	U	10	20
Barium	260		2.0	10
Beryllium	4.0	U	0.10	4.0
Cadmium	5.0	U	2.0	5.0
Chromium	10	U	2.0	10
Cobalt	10	U	1.0	10
Copper	20	U	5.0	20
Lead	10	U	3.4	10
Nickel	40	U	4.0	40
Selenium	20	U	6.4	20
Silver	10	U	0.97	10
Thallium	25	U	8.7	25
Tin	50	U	5.4	50
Vanadium	10	U	3.0	10
Zinc	20	U	6.3	20

7470A Mercury (CVAA)

Method:	7470A	Analysis Batch: 680-171505		Instrument ID:	LEEMAN1
Preparation:	7470A	Prep Batch: 680-171404		Lab File ID:	b061410.chr
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	06/14/2010 1759			Final Weight/Volume:	50 mL
Date Prepared:	06/14/2010 0910				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.091	0.20

DATA REPORTING QUALIFIERS

Client: Ashland Inc. Job Number: 680-58232-1

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Indicates the analyte was analyzed for but not detected.
	*	LCS or LCSD exceeds the control limits
	J	Result is less than the RL but greater than or equal to the Mx Dand the concentration is an approFimate value.
GC Semi VOA		
	U	Indicates the analyte was analyzed for but not detected.
	X	Surrogate is outside control limits
Metals		
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

QUALITY CONTROL RESULTS

Client: Ashland Inc. Job Number: 680-58232-1

QCtAssociaaioetSommary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:680-170853					
LCS 680-170853/6	Lab Control Sample	T	Water	8260B	
LCSD 680-170853/7	Lab Control Sample Duplicate	T	Water	8260B	
MB 680-170853/9	Method Blank	T	Water	8260B	
680-58232-9	MW8	T	Water	8260B	
680-58232-10	MW6	T	Water	8260B	
680-58232-11	MW39S	T	Water	8260B	
680-58232-12	MW38S	T	Water	8260B	
Analysis Batch:680-170857					
LCS 680-170857/6	Lab Control Sample	T	Water	8260B	
LCSD 680-170857/7	Lab Control Sample Duplicate	T	Water	8260B	
MB 680-170857/9	Method Blank	T	Water	8260B	
680-58232-1	MW39D	T	Water	8260B	
680-58232-2	MW39I	T	Water	8260B	
680-58232-6	MW48D	T	Water	8260B	
680-58232-7	MW13	T	Water	8260B	
680-58232-8	MW20S	T	Water	8260B	
680-58232-14TB	Trip Blank 051110	T	Water	8260B	
Analysis Batch:680-171008					
LCS 680-171008/4	Lab Control Sample	T	Water	8260B	
LCSD 680-171008/5	Lab Control Sample Duplicate	T	Water	8260B	
MB 680-171008/9	Method Blank	T	Water	8260B	
680-58232-3	MW20D	T	Water	8260B	
680-58232-4	MW38D	T	Water	8260B	
Analysis Batch:680-171009					
LCS 680-171009/4	Lab Control Sample	T	Water	8260B	
LCSD 680-171009/8	Lab Control Sample Duplicate	T	Water	8260B	
MB 680-171009/10	Method Blank	T	Water	8260B	
680-58232-5	MW38I	T	Water	8260B	
680-58232-13	MW20I	T	Water	8260B	

Reporatmasis

T = Total

Client: Ashland Inc. Job Number: 680-58232-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 680-170727					
LCS 680-170727/20-A	Lab Control Sample	T	Water	3520C	
MB 680-170727/15-A	Method Blank	T	Water	3520C	
shad hc. cd4	MW38D	T	Water	3520C	
680-58232-5	MW38I	T	Water	3520C	
680-58232-5MS	Matrix Spike	T	Water	3520C	
680-58232-5MSD	Matrix Spike Duplicate	T	Water	3520C	
680-58232-8	MW20S	T	Water	3520C	
680-58232-12	MW38S	T	Water	3520C	
680-58232-13	MW20I	T	Water	3520C	
Analysis Batch:680-171114					
LCS 680-170727/20-A	Lab Control Sample	T	Water	8081A_8082	680-170727
MB 680-170727/15-A	Method Blank	T	Water	8081A_8082	680-170727
680-58232-4	MW38D	T	Water	8081A_8082	680-170727
680-58232-5	MW38I	T	Water	8081A_8082	680-170727
680-58232-5MS	Matrix Spike	T	Water	8081A_8082	680-170727
680-58232-5MSD	Matrix Spike Duplicate	T	Water	8081A_8082	680-170727
680-58232-8	MW20S	T	Water	8081A_8082	680-170727
680-58232-12	MW38S	T	Water	8081A_8082	680-170727
680-58232-13	MW20I	T	Water	8081A_8082	680-170727
Analysis Batch:680-171118					
LCS 680-170727/20-A	Lab Control Sample	T	Water	8081B/8082A	680-170727
MB 680-170727/15-A	Method Blank	T	Water	8081B/8082A	680-170727
680-58232-4	MW38D	T	Water	8081B/8082A	680-170727
680-58232-5	MW38I	T	Water	8081B/8082A	680-170727
680-58232-5MS	Matrix Spike	T	Water	8081B/8082A	680-170727
680-58232-5MSD	Matrix Spike Duplicate	T	Water	8081B/8082A	680-170727
680-58232-8	MW20S	T	Water	8081B/8082A	680-170727
680-58232-12	MW38S	T	Water	8081B/8082A	680-170727
680-58232-13	MW20I	T	Water	8081B/8082A	680-170727

Report Basis
T = Total

Client: Ashland Inc. Job Number: 680-58232-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 680-171282					
LCS 680-171282/22-A	Lab Control Sample	R	Water	3005A	
MB 680-171282/21-A	Method Blank	R	Water	3005A	
680-58232-1	MW39D	R	Water	3005A	
680-58232-2	MW39I	R	Water	3005A	
680-58232-4	MW38D	R	Water	3005A	
680-58232-5	MW38I	R	Water	3005A	
680-58232-11	MW39S	R	Water	3005A	
680-58232-12	MW38S	R	Water	3005A	
Prep Batch: 680-171404					
LCS 680-171404/24-A	Lab Control Sample	T	Water	7470A	
MB 680-171404/23-A	Method Blank	T	Water	7470A	
680-58232-1	MW39D	T	Water	7470A	
680-58232-2	MW39I	T	Water	7470A	
680-58232-4	MW38D	T	Water	7470A	
680-58232-5	MW38I	T	Water	7470A	
680-58232-11	MW39S	T	Water	7470A	
680-58232-12	MW38S	T	Water	7470A	
Analysis Batch:680-171505					
LCS 680-171404/24-A	Lab Control Sample	T	Water	7470A	680-171404
MB 680-171404/23-A	Method Blank	T	Water	7470A	680-171404
680-58232-1	MW39D	T	Water	7470A	680-171404
680-58232-2	MW39I	T	Water	7470A	680-171404
680-58232-4	MW38D	T	Water	7470A	680-171404
680-58232-5	MW38I	T	Water	7470A	680-171404
680-58232-11	MW39S	T	Water	7470A	680-171404
680-58232-12	MW38S	T	Water	7470A	680-171404
Analysis Batch:680-171623					
LCS 680-171282/22-A	Lab Control Sample	R	Water	6010B	680-171282
MB 680-171282/21-A	Method Blank	R	Water	6010B	680-171282
680-58232-1	MW39D	R	Water	6010B	680-171282
680-58232-2	MW39I	R	Water	6010B	680-171282
680-58232-4	MW38D	R	Water	6010B	680-171282
680-58232-5	MW38I	R	Water	6010B	680-171282
680-58232-11	MW39S	R	Water	6010B	680-171282
680-58232-12	MW38S	R	Water	6010B	680-171282

Report Basis

R = Total Recoverable

T = Total

Client: Ashland Inc. Job Number: 680-58232-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	BFB %Rec	DBFM %Rec	TOL %Rec
680-58232-1	MW39D	96	94	107
680-58232-2	MW39I	96	90	106
680-58232-3	MW20D	98	92	105
680-58232-4	MW38D	100	94	107
680-58232-5	MW38I	85	99	99
680-58232-6	MW48D	102	90	105
680-58232-7	MW13	97	95	107
680-58232-8	MW20S	95	96	107
680-58232-9	MW8	92	93	99
680-58232-10	MW6	87	101	99
680-58232-11	MW39S	86	99	100
680-58232-12	MW38S	87	97	98
680-58232-13	MW20I	86	101	99
680-58232-14	Trip Blank 051110	94	98	107
MB 680-170853/9		86	99	98
MB 680-170857/9		96	92	105
MB 680-171008/9		97	92	105
MB 680-171009/10		85	97	99
LCS 680-170853/6		92	107	102
LCS 680-170857/6		97	102	106
LCS 680-171008/4		99	98	107
LCS 680-171009/4		91	104	103
LCSD 680-170853/7		92	105	99
LCSD 680-170857/7		99	103	106
LCSD 680-171008/5		100	101	106
LCSD 680-171009/8		93	106	103

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene	75-120
DBFM = Dibromofluoromethane	75-121
TOL = Toluene-d8 (Surr)	75-120

Client: Ashland Inc. Job Number: 680-58232-1

Surrogate Recovery Report

8081A_8082_Organochlorine Pesticides & PCBs (GC)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCB1 %Rec	TCX1 %Rec
680-58232-4	MW38D	34	41
680-58232-5	MW38I	78	66
680-58232-8	MW20S	11X	45
680-58232-12	MW38S	22	64
680-58232-13	MW20I	20	58
MB 680-170727/15-A		72	71
LCS 680-170727/20-A		73	68
680-58232-5 MS	MW38I MS	104	83
680-58232-5 MSD	MW38I MSD	86	75

Surrogate	Acceptance Limits
DCB = DCB Decachlorobiphenyl	14-115
TCX = Tetrachloro-m-xylene	35-120

Client: Ashland Inc. Job Number: 680-58232-1

Surrogate Recovery Report

8081B/8082A Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCB1 %Rec	TCX1 %Rec
680-58232-4	MW38D	34	41
680-58232-5	MW38I	78	66
680-58232-8	MW20S	11X	45
680-58232-12	MW38S	22	64
680-58232-13	MW20I	20	58
MB 680-170727/15-A		64	82
LCS 680-170727/20-A		73	68
680-58232-5 MS	MW38I MS	104	83
680-58232-5 MSD	MW38I MSD	86	75

Surrogate	Acceptance Limits
DCB = DCB Decachlorobiphenyl	14-115
TCX = Tetrachloro-m-xylene	35-120

Client: Ashland Inc. Job Number: 680-58232-1

Method Blank - Batch: 680-170853

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-170853/9
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/08/2010 1211
Date Prepared: 06/08/2010 1211

Analysis Batch: 680-170853
Prep Batch: N/A
Units: ug/L

Instrument ID: MSP
Lab File ID: pq119.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0

Client: Ashland Inc. Job Number: 680-58232-1

Method Blank - Batch: 680-170853

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-170853/9
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/08/2010 1211
Date Prepared: 06/08/2010 1211

Analysis Batch: 680-170853
Prep Batch: N/A
Units: ug/L

Instrument ID: MSP
Lab File ID: pq119.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	86	75 - 120
Dibromofluoromethane	99	75 - 121
Toluene-d8 (Surr)	98	75 - 120

Client: Ashland Inc. Job Number: 680-58232-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-170853

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-170853/6	Analysis Batch:	680-170853	Instrument ID:	MSP
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	pq111.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/08/2010 1013			Final Weight/Volume:	5 mL
Date Prepared:	06/08/2010 1013				

LCSD Lab Sample ID:	LCSD 680-170853/7	Analysis Batch:	680-170853	Instrument ID:	MSP
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	pq113.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/08/2010 1042			Final Weight/Volume:	5 mL
Date Prepared:	06/08/2010 1042				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	94	100	17 - 175	6	50		
Benzene	101	100	77 - 119	1	30		
Bromoform	98	95	62 - 133	2	30		
Bromomethane	121	132	12 - 184	8	50		
2-Butanone (MEK)	96	91	33 - 157	6	30		
Carbon disulfide	123	127	55 - 131	4	30		
Carbon tetrachloride	104	101	71 - 135	3	30		
Chlorobenzene	99	97	85 - 116	2	30		
Chlorodibromomethane	96	95	75 - 133	1	30		
Chloroethane	98	115	40 - 165	16	50		
Chloroform	115	116	82 - 120	1	30		
Chloromethane	139	137	48 - 142	1	50		
cis-1,3-Dichloropropene	105	105	76 - 126	0	30		
1,2-Dibromo-3-Chloropropane	89	82	49 - 140	8	30		
Dibromomethane	95	93	78 - 119	2	30		
Dichlorobromomethane	105	101	78 - 127	3	30		
Dichlorodifluoromethane	137	137	34 - 154	0	30		
1,1-Dichloroethane	104	104	74 - 127	0	30		
1,2-Dichloroethane	97	92	66 - 132	5	30		
1,1-Dichloroethene	104	105	62 - 141	1	30		
1,2-Dichloropropane	99	97	73 - 124	3	30		
Ethylbenzene	97	99	86 - 116	2	30		
Ethylene Dibromide	97	93	80 - 121	4	30		
2-Hexanone	91	91	34 - 161	0	30		
Methylene Chloride	107	107	70 - 125	0	30		
4-Methyl-2-pentanone (MIBK)	94	91	40 - 151	3	30		
Styrene	100	99	82 - 122	1	30		
1,1,1,2-Tetrachloroethane	93	92	81 - 128	1	30		
1,1,2,2-Tetrachloroethane	84	80	69 - 129	6	30		
Tetrachloroethene	96	94	76 - 126	2	30		
Toluene	100	99	81 - 117	1	30		
trans-1,2-Dichloroethene	103	102	72 - 131	1	30		
trans-1,3-Dichloropropene	101	98	73 - 128	3	30		
1,1,1-Trichloroethane	99	99	76 - 127	0	30		

Client: Ashland Inc. Job Number: 680-58232-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-170853

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-170853/6	Analysis Batch:	680-170853	Instrument ID:	MSP
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	pq111.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/08/2010 1013			Final Weight/Volume:	5 mL
Date Prepared:	06/08/2010 1013				

LCSD Lab Sample ID:	LCSD 680-170853/7	Analysis Batch:	680-170853	Instrument ID:	MSP
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	pq113.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/08/2010 1042			Final Weight/Volume:	5 mL
Date Prepared:	06/08/2010 1042				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,1,2-Trichloroethane	95	96	75 - 121	1	30		
Trichloroethene	105	103	84 - 115	2	30		
Trichlorofluoromethane	118	125	58 - 149	6	50		
1,2,3-Trichloropropane	92	85	70 - 130	7	30		
Vinyl acetate	155	155	10 - 217	0	30		
Vinyl chloride	139	139	59 - 144	0	50		
Xylenes, Total	98	98	84 - 118	0	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	92	92	75 - 120
Dibromofluoromethane	107	105	75 - 121
Toluene-d8 (Surr)	102	99	75 - 120

Client: Ashland Inc. Job Number: 680-58232-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 680-170853

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-170853/6	Units:	ug/L	LCSD Lab Sample ID:	LCSD 680-170853/7
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Date Analyzed:	06/08/2010 1013			Date Analyzed:	06/08/2010 1042
Date Prepared:	06/08/2010 1013			Date Prepared:	06/08/2010 1042

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Acetone	100	100	94.1	99.9
Benzene	50.0	50.0	50.6	50.2
Bromoform	50.0	50.0	48.8	47.7
Bromomethane	50.0	50.0	60.7	66.1
2-Butanone (MEK)	100	100	96.4	91.0
Carbon disulfide	50.0	50.0	61.3	63.5
Carbon tetrachloride	50.0	50.0	52.0	50.5
Chlorobenzene	50.0	50.0	49.6	48.5
Chlorodibromomethane	50.0	50.0	48.0	47.7
Chloroethane	50.0	50.0	48.9	57.3
Chloroform	50.0	50.0	57.7	58.2
Chloromethane	50.0	50.0	69.4	68.7
cis-1,3-Dichloropropene	50.0	50.0	52.5	52.4
1,2-Dibromo-3-Chloropropane	50.0	50.0	44.5	40.9
Dibromomethane	50.0	50.0	47.5	46.4
Dichlorobromomethane	50.0	50.0	52.4	50.7
Dichlorodifluoromethane	50.0	50.0	68.7	68.6
1,1-Dichloroethane	50.0	50.0	52.1	51.9
1,2-Dichloroethane	50.0	50.0	48.4	46.2
1,1-Dichloroethene	50.0	50.0	51.9	52.3
1,2-Dichloropropane	50.0	50.0	49.5	48.3
Ethylbenzene	50.0	50.0	48.6	49.5
Ethylene Dibromide	50.0	50.0	48.4	46.7
2-Hexanone	100	100	91.1	91.4
Methylene Chloride	50.0	50.0	53.7	53.7
4-Methyl-2-pentanone (MIBK)	100	100	93.7	91.3
Styrene	50.0	50.0	50.0	49.6
1,1,1,2-Tetrachloroethane	50.0	50.0	46.5	46.1
1,1,2,2-Tetrachloroethane	50.0	50.0	42.2	39.8
Tetrachloroethene	50.0	50.0	48.2	47.1
Toluene	50.0	50.0	50.1	49.7
trans-1,2-Dichloroethene	50.0	50.0	51.3	50.9
trans-1,3-Dichloropropene	50.0	50.0	50.5	49.1
1,1,1-Trichloroethane	50.0	50.0	49.5	49.5
1,1,2-Trichloroethane	50.0	50.0	47.4	47.9
Trichloroethene	50.0	50.0	52.6	51.5
Trichlorofluoromethane	50.0	50.0	59.0	62.6
1,2,3-Trichloropropane	50.0	50.0	45.8	42.6
Vinyl acetate	100	100	155	155
Vinyl chloride	50.0	50.0	69.4	69.6
Xylenes, Total	150	150	147	146

Client: Ashland Inc. Job Number: 680-58232-1

Method Blank - Batch: 680-170857

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-170857/9
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/08/2010 1226
Date Prepared: 06/08/2010 1226

Analysis Batch: 680-170857
Prep Batch: N/A
Units: ug/L

Instrument ID: MSP2
Lab File ID: pq120.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0

Client: Ashland Inc. Job Number: 680-58232-1

Method Blank - Batch: 680-170857

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-170857/9
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/08/2010 1226
Date Prepared: 06/08/2010 1226

Analysis Batch: 680-170857
Prep Batch: N/A
Units: ug/L

Instrument ID: MSP2
Lab File ID: pq120.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	96	75 - 120
Dibromofluoromethane	92	75 - 121
Toluene-d8 (Surr)	105	75 - 120

Client: Ashland Inc. Job Number: 680-58232-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-170857

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-170857/6	Analysis Batch:	680-170857	Instrument ID:	MSP2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	pq112.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/08/2010 1028			Final Weight/Volume:	5 mL
Date Prepared:	06/08/2010 1028				

LCSD Lab Sample ID:	LCSD 680-170857/7	Analysis Batch:	680-170857	Instrument ID:	MSP2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	pq114.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/08/2010 1057			Final Weight/Volume:	5 mL
Date Prepared:	06/08/2010 1057				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	86	92	17 - 175	7	50		
Benzene	106	105	77 - 119	1	30		
Bromoform	108	110	62 - 133	2	30		
Bromomethane	161	212	12 - 184	27	50		*
2-Butanone (MEK)	99	97	33 - 157	1	30		
Carbon disulfide	120	127	55 - 131	5	30		
Carbon tetrachloride	121	115	71 - 135	5	30		
Chlorobenzene	97	100	85 - 116	2	30		
Chlorodibromomethane	101	103	75 - 133	2	30		
Chloroethane	112	113	40 - 165	2	50		
Chloroform	112	111	82 - 120	2	30		
Chloromethane	122	133	48 - 142	9	50		
cis-1,3-Dichloropropene	114	113	76 - 126	0	30		
1,2-Dibromo-3-Chloropropane	100	105	49 - 140	6	30		
Dibromomethane	99	97	78 - 119	2	30		
Dichlorobromomethane	113	110	78 - 127	2	30		
Dichlorodifluoromethane	125	131	34 - 154	4	30		
1,1-Dichloroethane	104	107	74 - 127	2	30		
1,2-Dichloroethane	112	107	66 - 132	5	30		
1,1-Dichloroethene	91	94	62 - 141	2	30		
1,2-Dichloropropane	104	104	73 - 124	0	30		
Ethylbenzene	101	105	86 - 116	5	30		
Ethylene Dibromide	104	101	80 - 121	3	30		
2-Hexanone	103	98	34 - 161	5	30		
Methylene Chloride	102	108	70 - 125	6	30		
4-Methyl-2-pentanone (MIBK)	105	102	40 - 151	3	30		
Styrene	99	105	82 - 122	7	30		
1,1,1,2-Tetrachloroethane	99	103	81 - 128	4	30		
1,1,2,2-Tetrachloroethane	88	89	69 - 129	1	30		
Tetrachloroethene	97	100	76 - 126	3	30		
Toluene	103	105	81 - 117	2	30		
trans-1,2-Dichloroethene	96	95	72 - 131	0	30		
trans-1,3-Dichloropropene	118	115	73 - 128	2	30		
1,1,1-Trichloroethane	116	117	76 - 127	1	30		

Client: Ashland Inc. Job Number: 680-58232-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-170857

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-170857/6	Analysis Batch:	680-170857	Instrument ID:	MSP2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	pq112.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/08/2010 1028			Final Weight/Volume:	5 mL
Date Prepared:	06/08/2010 1028				

LCSD Lab Sample ID:	LCSD 680-170857/7	Analysis Batch:	680-170857	Instrument ID:	MSP2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	pq114.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/08/2010 1057			Final Weight/Volume:	5 mL
Date Prepared:	06/08/2010 1057				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,1,2-Trichloroethane	106	103	75 - 121	3	30		
Trichloroethene	107	102	84 - 115	5	30		
Trichlorofluoromethane	119	126	58 - 149	6	50		
1,2,3-Trichloropropane	98	99	70 - 130	2	30		
Vinyl acetate	187	185	10 - 217	1	30		
Vinyl chloride	118	122	59 - 144	4	50		
Xylenes, Total	97	101	84 - 118	4	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	97	99	75 - 120
Dibromofluoromethane	102	103	75 - 121
Toluene-d8 (Surr)	106	106	75 - 120

Client: Ashland Inc. Job Number: 680-58232-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 680-170857

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-170857/6	Units:	ug/L	LCSD Lab Sample ID:	LCSD 680-170857/7
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Date Analyzed:	06/08/2010 1028			Date Analyzed:	06/08/2010 1057
Date Prepared:	06/08/2010 1028			Date Prepared:	06/08/2010 1057

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual	
Acetone	100	100	86.0	92.3	
Benzene	50.0	50.0	52.9	52.4	
Bromoform	50.0	50.0	54.1	55.0	
Bromomethane	50.0	50.0	80.4	106	*
2-Butanone (MEK)	100	100	98.7	97.5	
Carbon disulfide	50.0	50.0	60.2	63.5	
Carbon tetrachloride	50.0	50.0	60.7	57.7	
Chlorobenzene	50.0	50.0	48.7	49.8	
Chlorodibromomethane	50.0	50.0	50.5	51.5	
Chloroethane	50.0	50.0	55.9	56.7	
Chloroform	50.0	50.0	56.2	55.3	
Chloromethane	50.0	50.0	61.0	66.7	
cis-1,3-Dichloropropene	50.0	50.0	56.9	56.6	
1,2-Dibromo-3-Chloropropane	50.0	50.0	49.8	52.7	
Dibromomethane	50.0	50.0	49.5	48.7	
Dichlorobromomethane	50.0	50.0	56.3	55.2	
Dichlorodifluoromethane	50.0	50.0	62.6	65.3	
1,1-Dichloroethane	50.0	50.0	52.2	53.3	
1,2-Dichloroethane	50.0	50.0	56.2	53.3	
1,1-Dichloroethene	50.0	50.0	45.7	46.9	
1,2-Dichloropropane	50.0	50.0	52.2	52.2	
Ethylbenzene	50.0	50.0	50.3	52.7	
Ethylene Dibromide	50.0	50.0	51.9	50.4	
2-Hexanone	100	100	103	98.0	
Methylene Chloride	50.0	50.0	50.8	53.8	
4-Methyl-2-pentanone (MIBK)	100	100	105	102	
Styrene	50.0	50.0	49.3	52.7	
1,1,1,2-Tetrachloroethane	50.0	50.0	49.6	51.7	
1,1,2,2-Tetrachloroethane	50.0	50.0	44.2	44.4	
Tetrachloroethene	50.0	50.0	48.7	49.9	
Toluene	50.0	50.0	51.6	52.5	
trans-1,2-Dichloroethene	50.0	50.0	47.8	47.7	
trans-1,3-Dichloropropene	50.0	50.0	58.9	57.6	
1,1,1-Trichloroethane	50.0	50.0	58.2	58.7	
1,1,2-Trichloroethane	50.0	50.0	52.8	51.4	
Trichloroethene	50.0	50.0	53.6	51.2	
Trichlorofluoromethane	50.0	50.0	59.6	63.2	
1,2,3-Trichloropropane	50.0	50.0	48.8	49.7	
Vinyl acetate	100	100	187	185	
Vinyl chloride	50.0	50.0	58.9	61.2	
Xylenes, Total	150	150	146	152	

Method Blank - Batch: 680-171008

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-171008/9
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/09/2010 1220
Date Prepared: 06/09/2010 1220

Analysis Batch: 680-171008
Prep Batch: N/A
Units: ug/L

Instrument ID: MSP2
Lab File ID: pq142.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0

Client: Ashland Inc. Job Number: 680-58232-1

Method Blank - Batch: 680-171008

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-171008/9
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/09/2010 1220
Date Prepared: 06/09/2010 1220

Analysis Batch: 680-171008
Prep Batch: N/A
Units: ug/L

Instrument ID: MSP2
Lab File ID: pq142.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	97	75 - 120
Dibromofluoromethane	92	75 - 121
Toluene-d8 (Surr)	105	75 - 120

Client: Ashland Inc. Job Number: 680-58232-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-171008

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-171008/4	Analysis Batch:	680-171008	Instrument ID:	MSP2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	pq134.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/09/2010 1022			Final Weight/Volume:	5 mL
Date Prepared:	06/09/2010 1022				

LCSD Lab Sample ID:	LCSD 680-171008/5	Analysis Batch:	680-171008	Instrument ID:	MSP2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	pq136.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/09/2010 1051			Final Weight/Volume:	5 mL
Date Prepared:	06/09/2010 1051				

	% Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	83	81	17 - 175	2	50		
Benzene	103	100	77 - 119	3	30		
Bromoform	112	110	62 - 133	2	30		
Bromomethane	184	219	12 - 184	17	50		*
2-Butanone (MEK)	93	90	33 - 157	4	30		
Carbon disulfide	115	123	55 - 131	7	30		
Carbon tetrachloride	122	119	71 - 135	2	30		
Chlorobenzene	98	100	85 - 116	2	30		
Chlorodibromomethane	100	102	75 - 133	2	30		
Chloroethane	113	123	40 - 165	9	50		
Chloroform	112	113	82 - 120	1	30		
Chloromethane	113	126	48 - 142	11	50		
cis-1,3-Dichloropropene	113	109	76 - 126	3	30		
1,2-Dibromo-3-Chloropropane	107	105	49 - 140	2	30		
Dibromomethane	100	97	78 - 119	3	30		
Dichlorobromomethane	112	111	78 - 127	2	30		
Dichlorodifluoromethane	128	132	34 - 154	3	30		
1,1-Dichloroethane	98	104	74 - 127	6	30		
1,2-Dichloroethane	112	107	66 - 132	5	30		
1,1-Dichloroethene	88	88	62 - 141	1	30		
1,2-Dichloropropane	99	98	73 - 124	1	30		
Ethylbenzene	103	106	86 - 116	3	30		
Ethylene Dibromide	104	98	80 - 121	6	30		
2-Hexanone	96	93	34 - 161	3	30		
Methylene Chloride	97	102	70 - 125	5	30		
4-Methyl-2-pentanone (MIBK)	96	93	40 - 151	3	30		
Styrene	100	104	82 - 122	4	30		
1,1,1,2-Tetrachloroethane	103	102	81 - 128	1	30		
1,1,2,2-Tetrachloroethane	89	89	69 - 129	0	30		
Tetrachloroethene	102	102	76 - 126	0	30		
Toluene	102	102	81 - 117	0	30		
trans-1,2-Dichloroethene	92	95	72 - 131	4	30		
trans-1,3-Dichloropropene	120	115	73 - 128	4	30		
1,1,1-Trichloroethane	118	118	76 - 127	1	30		

Client: Ashland Inc. Job Number: 680-58232-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-171008

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-171008/4	Analysis Batch:	680-171008	Instrument ID:	MSP2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	pq134.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/09/2010 1022			Final Weight/Volume:	5 mL
Date Prepared:	06/09/2010 1022				

LCSD Lab Sample ID:	LCSD 680-171008/5	Analysis Batch:	680-171008	Instrument ID:	MSP2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	pq136.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/09/2010 1051			Final Weight/Volume:	5 mL
Date Prepared:	06/09/2010 1051				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,1,2-Trichloroethane	105	98	75 - 121	7	30		
Trichloroethene	107	105	84 - 115	3	30		
Trichlorofluoromethane	129	132	58 - 149	3	50		
1,2,3-Trichloropropane	97	100	70 - 130	4	30		
Vinyl acetate	172	175	10 - 217	2	30		
Vinyl chloride	117	123	59 - 144	5	50		
Xylenes, Total	99	102	84 - 118	3	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	99	100	75 - 120
Dibromofluoromethane	98	101	75 - 121
Toluene-d8 (Surr)	107	106	75 - 120

Client: Ashland Inc. Job Number: 680-58232-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 680-171008

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-171008/4	Units:	ug/L	LCSD Lab Sample ID:	LCSD 680-171008/5
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Date Analyzed:	06/09/2010 1022			Date Analyzed:	06/09/2010 1051
Date Prepared:	06/09/2010 1022			Date Prepared:	06/09/2010 1051

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual	
Acetone	100	100	82.9	81.3	
Benzene	50.0	50.0	51.4	50.0	
Bromoform	50.0	50.0	56.1	54.8	
Bromomethane	50.0	50.0	91.9	110	*
2-Butanone (MEK)	100	100	93.2	89.6	
Carbon disulfide	50.0	50.0	57.6	61.6	
Carbon tetrachloride	50.0	50.0	60.8	59.4	
Chlorobenzene	50.0	50.0	48.9	50.0	
Chlorodibromomethane	50.0	50.0	50.1	51.1	
Chloroethane	50.0	50.0	56.3	61.4	
Chloroform	50.0	50.0	55.8	56.3	
Chloromethane	50.0	50.0	56.4	62.9	
cis-1,3-Dichloropropene	50.0	50.0	56.4	54.7	
1,2-Dibromo-3-Chloropropane	50.0	50.0	53.3	52.3	
Dibromomethane	50.0	50.0	50.1	48.5	
Dichlorobromomethane	50.0	50.0	56.2	55.3	
Dichlorodifluoromethane	50.0	50.0	64.1	65.8	
1,1-Dichloroethane	50.0	50.0	49.0	52.0	
1,2-Dichloroethane	50.0	50.0	56.2	53.7	
1,1-Dichloroethene	50.0	50.0	43.9	44.2	
1,2-Dichloropropane	50.0	50.0	49.4	48.9	
Ethylbenzene	50.0	50.0	51.6	52.9	
Ethylene Dibromide	50.0	50.0	52.2	49.2	
2-Hexanone	100	100	95.6	92.6	
Methylene Chloride	50.0	50.0	48.7	51.2	
4-Methyl-2-pentanone (MIBK)	100	100	96.4	93.4	
Styrene	50.0	50.0	50.2	52.2	
1,1,1,2-Tetrachloroethane	50.0	50.0	51.4	51.0	
1,1,2,2-Tetrachloroethane	50.0	50.0	44.5	44.6	
Tetrachloroethene	50.0	50.0	51.1	51.2	
Toluene	50.0	50.0	51.1	51.1	
trans-1,2-Dichloroethene	50.0	50.0	45.9	47.7	
trans-1,3-Dichloropropene	50.0	50.0	59.8	57.6	
1,1,1-Trichloroethane	50.0	50.0	59.1	58.8	
1,1,2-Trichloroethane	50.0	50.0	52.6	49.1	
Trichloroethene	50.0	50.0	53.7	52.4	
Trichlorofluoromethane	50.0	50.0	64.3	66.1	
1,2,3-Trichloropropane	50.0	50.0	48.3	50.1	
Vinyl acetate	100	100	172	175	
Vinyl chloride	50.0	50.0	58.5	61.6	
Xylenes, Total	150	150	148	153	

Client: Ashland Inc.

Job Number: 680-58232-1

Client: Ashland Inc. Job Number: 680-58232-1

Method Blank - Batch: 680-171009

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-171009/10
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/09/2010 1205
Date Prepared: 06/09/2010 1205

Analysis Batch: 680-171009
Prep Batch: N/A
Units: ug/L

Instrument ID: MSP
Lab File ID: pq141.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0

Client: Ashland Inc. Job Number: 680-58232-1

Method Blank - Batch: 680-171009

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-171009/10
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/09/2010 1205
Date Prepared: 06/09/2010 1205

Analysis Batch: 680-171009
Prep Batch: N/A
Units: ug/L

Instrument ID: MSP
Lab File ID: pq141.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	85	75 - 120
Dibromofluoromethane	97	75 - 121
Toluene-d8 (Surr)	99	75 - 120

Client: Ashland Inc. Job Number: 680-58232-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-171009

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-171009/4	Analysis Batch:	680-171009	Instrument ID:	MSP
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	pq133.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/09/2010 1007			Final Weight/Volume:	5 mL
Date Prepared:	06/09/2010 1007				

LCSD Lab Sample ID:	LCSD 680-171009/8	Analysis Batch:	680-171009	Instrument ID:	MSP
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	pq135.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/09/2010 1037			Final Weight/Volume:	5 mL
Date Prepared:	06/09/2010 1037				

	% Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	75	69	17 - 175	9	50		
Benzene	99	100	77 - 119	1	30		
Bromoform	95	95	62 - 133	1	30		
Bromomethane	116	126	12 - 184	8	50		
2-Butanone (MEK)	79	86	33 - 157	8	30		
Carbon disulfide	114	120	55 - 131	5	30		
Carbon tetrachloride	107	106	71 - 135	1	30		
Chlorobenzene	95	97	85 - 116	3	30		
Chlorodibromomethane	91	92	75 - 133	1	30		
Chloroethane	89	103	40 - 165	15	50		
Chloroform	114	120	82 - 120	4	30		
Chloromethane	124	125	48 - 142	1	50		
cis-1,3-Dichloropropene	105	105	76 - 126	0	30		
1,2-Dibromo-3-Chloropropane	85	91	49 - 140	7	30		
Dibromomethane	95	92	78 - 119	3	30		
Dichlorobromomethane	107	107	78 - 127	0	30		
Dichlorodifluoromethane	138	138	34 - 154	0	30		
1,1-Dichloroethane	98	103	74 - 127	5	30		
1,2-Dichloroethane	101	102	66 - 132	1	30		
1,1-Dichloroethene	93	98	62 - 141	5	30		
1,2-Dichloropropane	95	95	73 - 124	0	30		
Ethylbenzene	96	99	86 - 116	3	30		
Ethylene Dibromide	94	97	80 - 121	2	30		
2-Hexanone	80	83	34 - 161	4	30		
Methylene Chloride	98	106	70 - 125	8	30		
4-Methyl-2-pentanone (MIBK)	87	89	40 - 151	2	30		
Styrene	99	101	82 - 122	3	30		
1,1,1,2-Tetrachloroethane	96	98	81 - 128	2	30		
1,1,2,2-Tetrachloroethane	78	78	69 - 129	0	30		
Tetrachloroethene	92	94	76 - 126	2	30		
Toluene	99	99	81 - 117	0	30		
trans-1,2-Dichloroethene	97	99	72 - 131	2	30		
trans-1,3-Dichloropropene	104	99	73 - 128	5	30		
1,1,1-Trichloroethane	102	102	76 - 127	1	30		

Client: Ashland Inc. Job Number: 680-58232-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-171009

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-171009/4	Analysis Batch:	680-171009	Instrument ID:	MSP
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	pq133.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/09/2010 1007			Final Weight/Volume:	5 mL
Date Prepared:	06/09/2010 1007				

LCSD Lab Sample ID:	LCSD 680-171009/8	Analysis Batch:	680-171009	Instrument ID:	MSP
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	pq135.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/09/2010 1037			Final Weight/Volume:	5 mL
Date Prepared:	06/09/2010 1037				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,1,2-Trichloroethane	93	94	75 - 121	1	30		
Trichloroethene	105	106	84 - 115	2	30		
Trichlorofluoromethane	121	130	58 - 149	8	50		
1,2,3-Trichloropropane	91	84	70 - 130	9	30		
Vinyl acetate	137	142	10 - 217	4	30		
Vinyl chloride	133	128	59 - 144	4	50		
Xylenes, Total	96	99	84 - 118	3	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	91	93	75 - 120
Dibromofluoromethane	104	106	75 - 121
Toluene-d8 (Surr)	103	103	75 - 120

Client: Ashland Inc. Job Number: 680-58232-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 680-171009

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-171009/4	Units:	ug/L	LCSD Lab Sample ID:	LCSD 680-171009/8
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Date Analyzed:	06/09/2010 1007			Date Analyzed:	06/09/2010 1037
Date Prepared:	06/09/2010 1007			Date Prepared:	06/09/2010 1037

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Acetone	100	100	75.2	68.7
Benzene	50.0	50.0	49.6	50.0
Bromoform	50.0	50.0	47.3	47.7
Bromomethane	50.0	50.0	58.2	63.2
2-Butanone (MEK)	100	100	79.1	85.7
Carbon disulfide	50.0	50.0	56.8	59.8
Carbon tetrachloride	50.0	50.0	53.3	53.0
Chlorobenzene	50.0	50.0	47.4	48.7
Chlorodibromomethane	50.0	50.0	45.4	45.9
Chloroethane	50.0	50.0	44.6	51.7
Chloroform	50.0	50.0	57.2	59.8
Chloromethane	50.0	50.0	61.9	62.7
cis-1,3-Dichloropropene	50.0	50.0	52.5	52.6
1,2-Dibromo-3-Chloropropane	50.0	50.0	42.4	45.7
Dibromomethane	50.0	50.0	47.6	46.1
Dichlorobromomethane	50.0	50.0	53.5	53.4
Dichlorodifluoromethane	50.0	50.0	68.9	69.1
1,1-Dichloroethane	50.0	50.0	48.8	51.3
1,2-Dichloroethane	50.0	50.0	50.4	50.8
1,1-Dichloroethene	50.0	50.0	46.5	48.9
1,2-Dichloropropane	50.0	50.0	47.7	47.5
Ethylbenzene	50.0	50.0	47.9	49.4
Ethylene Dibromide	50.0	50.0	47.2	48.3
2-Hexanone	100	100	80.2	83.2
Methylene Chloride	50.0	50.0	48.9	52.8
4-Methyl-2-pentanone (MIBK)	100	100	86.7	88.7
Styrene	50.0	50.0	49.3	50.6
1,1,1,2-Tetrachloroethane	50.0	50.0	47.8	48.8
1,1,2,2-Tetrachloroethane	50.0	50.0	38.9	38.9
Tetrachloroethene	50.0	50.0	45.9	46.8
Toluene	50.0	50.0	49.7	49.6
trans-1,2-Dichloroethene	50.0	50.0	48.4	49.4
trans-1,3-Dichloropropene	50.0	50.0	51.8	49.5
1,1,1-Trichloroethane	50.0	50.0	51.2	50.9
1,1,2-Trichloroethane	50.0	50.0	46.5	46.8
Trichloroethene	50.0	50.0	52.4	53.2
Trichlorofluoromethane	50.0	50.0	60.4	65.2
1,2,3-Trichloropropane	50.0	50.0	45.6	41.9
Vinyl acetate	100	100	137	142
Vinyl chloride	50.0	50.0	66.4	63.9
Xylenes, Total	150	150	144	148

Client: Ashland Inc. Job Number: 680-58232-1

Method Blank - Batch: 680-170727

Method: 8081A_8082
Preparation: 3520C

Lab Sample ID: MB 680-170727/15-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/09/2010 1745
Date Prepared: 06/07/2010 1421

Analysis Batch: 680-171114
Prep Batch: 680-170727
Units: ug/L

Instrument ID: SGM
Lab File ID: mf08088.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
Toxaphene, Total	5.0	U	0.50	5.0

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	72	14 - 115
Tetrachloro-m-xylene	71	35 - 120

Lab Control Sample - Batch: 680-170727

Method: 8081A_8082
Preparation: 3520C

Lab Sample ID: LCS 680-170727/20-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/09/2010 1922
Date Prepared: 06/07/2010 1421

Analysis Batch: 680-171114
Prep Batch: 680-170727
Units: ug/L

Instrument ID: SGM
Lab File ID: mf08093.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Toxaphene, Total	10.0	6.74	67	30 - 120	

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	73	14 - 115
Tetrachloro-m-xylene	68	35 - 120

Client: Ashland Inc. Job Number: 680-58232-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-170727

Method: 8081A_8082
Preparation: 3520C

MS Lab Sample ID:	680-58232-5	Analysis Batch: 680-171114	Instrument ID: SGM
Client Matrix:	Water	Prep Batch: 680-170727	Lab File ID: mf08108.d
Dilution:	1.0		Initial Weight/Volume: 500 mL
Date Analyzed:	06/10/2010 0013		Final Weight/Volume: 5 mL
Date Prepared:	06/07/2010 1421		Injection Volume: 2 uL
			Column ID: PRIMARY

MSD Lab Sample ID:	680-58232-5	Analysis Batch: 680-171114	Instrument ID: SGM
Client Matrix:	Water	Prep Batch: 680-170727	Lab File ID: mf08109.d
Dilution:	1.0		Initial Weight/Volume: 500 mL
Date Analyzed:	06/10/2010 0033		Final Weight/Volume: 5 mL
Date Prepared:	06/07/2010 1421		Injection Volume: 2 uL
			Column ID: PRIMARY

	% Rec.					
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Toxaphene, Total	113	89	30 - 120	24	40		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
DCB Decachlorobiphenyl	104	86	14 - 115
Tetrachloro-m-xylene	83	75	35 - 120

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 680-170727

Method: 8081A_8082
Preparation: 3520C

MS Lab Sample ID:	680-58232-5	Units: ug/L	MSD Lab Sample ID: 680-58232-5
Client Matrix:	Water		Client Matrix: Water
Dilution:	1.0		Dilution: 1.0
Date Analyzed:	06/10/2010 0013		Date Analyzed: 06/10/2010 0033
Date Prepared:	06/07/2010 1421		Date Prepared: 06/07/2010 1421

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Toxaphene, Total	5.0	U	10.0	10.0	11.3	8.87

Client: Ashland Inc. Job Number: 680-58232-1

Method Blank - Batch: 680-170727

Method: 8081B/8082A
Preparation: 3520C

Lab Sample ID: MB 680-170727/15-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/09/2010 1745
Date Prepared: 06/07/2010 1421

Analysis Batch: 680-171118
Prep Batch: 680-170727
Units: ug/L

Instrument ID: SGM
Lab File ID: mf08088.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
Toxaphene, Technical	5.0	U	0.50	5.0

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	64	14 - 115
Tetrachloro-m-xylene	82	35 - 120

Lab Control Sample - Batch: 680-170727

Method: 8081B/8082A
Preparation: 3520C

Lab Sample ID: LCS 680-170727/20-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/09/2010 1922
Date Prepared: 06/07/2010 1421

Analysis Batch: 680-171118
Prep Batch: 680-170727
Units: ug/L

Instrument ID: SGM
Lab File ID: mf08093.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Toxaphene, Technical	10.0	8.08	81	30 - 120	

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	73	14 - 115
Tetrachloro-m-xylene	68	35 - 120

Client: Ashland Inc. Job Number: 680-58232-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-170727

Method: 8081B/8082A
Preparation: 3520C

MS Lab Sample ID:	680-58232-5	Analysis Batch: 680-171118	Instrument ID: SGM
Client Matrix:	Water	Prep Batch: 680-170727	Lab File ID: mf08108.d
Dilution:	1.0		Initial Weight/Volume: 500 mL
Date Analyzed:	06/10/2010 0013		Final Weight/Volume: 5 mL
Date Prepared:	06/07/2010 1421		Injection Volume: 2 uL
			Column ID: PRIMARY

MSD Lab Sample ID:	680-58232-5	Analysis Batch: 680-171118	Instrument ID: SGM
Client Matrix:	Water	Prep Batch: 680-170727	Lab File ID: mf08109.d
Dilution:	1.0		Initial Weight/Volume: 500 mL
Date Analyzed:	06/10/2010 0033		Final Weight/Volume: 5 mL
Date Prepared:	06/07/2010 1421		Injection Volume: 2 uL
			Column ID: PRIMARY

	% Rec.					
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Toxaphene, Technical	120	99	30 - 120	20	40		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
DCB Decachlorobiphenyl	104	86	14 - 115
Tetrachloro-m-xylene	83	75	35 - 120

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 680-170727

Method: 8081B/8082A
Preparation: 3520C

MS Lab Sample ID:	680-58232-5	Units: ug/L	MSD Lab Sample ID: 680-58232-5
Client Matrix:	Water		Client Matrix: Water
Dilution:	1.0		Dilution: 1.0
Date Analyzed:	06/10/2010 0013		Date Analyzed: 06/10/2010 0033
Date Prepared:	06/07/2010 1421		Date Prepared: 06/07/2010 1421

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Toxaphene, Technical	5.0	U	10.0	10.0	12.0	9.86

Client: Ashland Inc. Job Number: 680-58232-1

Method Blank - Batch: 680-171282

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID: MB 680-171282/21-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/15/2010 1543
Date Prepared: 06/11/2010 1157

Analysis Batch: 680-171623
Prep Batch: 680-171282
Units: ug/L

Instrument ID: ICPD
Lab File ID: 061510.chr
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Antimony	20	U	5.2	20
Arsenic	20	U	10	20
Barium	10	U	2.0	10
Beryllium	4.0	U	0.10	4.0
Cadmium	5.0	U	2.0	5.0
Chromium	10	U	2.0	10
Cobalt	10	U	1.0	10
Copper	20	U	5.0	20
Lead	10	U	3.4	10
Nickel	40	U	4.0	40
Selenium	20	U	6.4	20
Silver	10	U	0.97	10
Thallium	25	U	8.7	25
Tin	50	U	5.4	50
Vanadium	10	U	3.0	10
Zinc	20	U	6.3	20

Client: Ashland Inc. Job Number: 680-58232-1

Lab Control Sample - Batch: 680-171282

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 680-171282/22-A	Analysis Batch:	680-171623	Instrument ID:	ICPD
Client Matrix:	Water	Prep Batch:	680-171282	Lab File ID:	061510.chr
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	50 mL
Date Analyzed:	06/15/2010 1548			Final Weight/Volume:	50 mL
Date Prepared:	06/11/2010 1157				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Antimony	500	500	100	75 - 125	
Arsenic	2000	1980	99	75 - 125	
Barium	2000	2000	100	75 - 125	
Beryllium	50.0	50.0	100	75 - 125	
Cadmium	50.0	50.9	102	75 - 125	
Chromium	200	200	100	75 - 125	
Cobalt	500	496	99	75 - 125	
Copper	250	242	97	75 - 125	
Lead	500	504	101	75 - 125	
Nickel	500	490	98	75 - 125	
Selenium	2000	2050	102	75 - 125	
Silver	50.0	48.7	97	75 - 125	
Thallium	2000	2070	104	75 - 125	
Tin	1000	954	95	75 - 125	
Vanadium	500	483	97	75 - 125	
Zinc	500	502	100	75 - 125	

Client: Ashland Inc. Job Number: 680-58232-1

Method Blank - Batch: 680-171404

Method: 7470A
Preparation: 7470A

Lab Sample ID:	MB 680-171404/23-A	Analysis Batch:	680-171505	Instrument ID:	LEEMAN1
Client Matrix:	Water	Prep Batch:	680-171404	Lab File ID:	b061410.chr
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	50 mL
Date Analyzed:	06/14/2010 1629			Final Weight/Volume:	50 mL
Date Prepared:	06/14/2010 0910				

Analyte	Result	Qual	MDL	RL
Mercury	0.20	U	0.091	0.20

Lab Control Sample - Batch: 680-171404

Method: 7470A
Preparation: 7470A

Lab Sample ID:	LCS 680-171404/24-A	Analysis Batch:	680-171505	Instrument ID:	LEEMAN1
Client Matrix:	Water	Prep Batch:	680-171404	Lab File ID:	b061410.chr
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	50 mL
Date Analyzed:	06/14/2010 1632			Final Weight/Volume:	50 mL
Date Prepared:	06/14/2010 0910				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	2.50	2.52	101	80 - 120	

Client: Ashland Inc. Job Number: 680-58232-1

Laboratory Chronicle

Lab ID: 680-58232-1 **Client ID: MW39D**

Sample Date/Time: 06/02/2010 10:00 Received Date/Time: 06/03/2010 12:56

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58232-B-1		680-170857		06/08/2010 15:27	1	TAL SAV	CL
A:8260B	680-58232-B-1		680-170857		06/08/2010 15:27	1	TAL SAV	CL
P:3005A	680-58232-A-1-A		680-171623	680-171282	06/11/2010 11:57	1	TAL SAV	RA
A:6010B	680-58232-A-1-A		680-171623	680-171282	06/15/2010 15:53	1	TAL SAV	BCB
P:7470A	680-58232-A-1-B		680-171505	680-171404	06/14/2010 09:10	1	TAL SAV	DH
A:7470A	680-58232-A-1-B		680-171505	680-171404	06/14/2010 17:36	1	TAL SAV	CE

Lab ID: 680-58232-2 **Client ID: MW39I**

Sample Date/Time: 06/02/2010 10:50 Received Date/Time: 06/03/2010 12:56

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58232-B-2		680-170857		06/08/2010 15:57	1	TAL SAV	CL
A:8260B	680-58232-B-2		680-170857		06/08/2010 15:57	1	TAL SAV	CL
P:3005A	680-58232-A-2-A		680-171623	680-171282	06/11/2010 11:57	1	TAL SAV	RA
A:6010B	680-58232-A-2-A		680-171623	680-171282	06/15/2010 16:54	1	TAL SAV	BCB
P:7470A	680-58232-A-2-B		680-171505	680-171404	06/14/2010 09:10	1	TAL SAV	DH
A:7470A	680-58232-A-2-B		680-171505	680-171404	06/14/2010 17:40	1	TAL SAV	CE

Lab ID: 680-58232-3 **Client ID: MW20D**

Sample Date/Time: 06/02/2010 12:00 Received Date/Time: 06/03/2010 12:56

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58232-B-3		680-171008		06/09/2010 12:49	4	TAL SAV	CL
A:8260B	680-58232-B-3		680-171008		06/09/2010 12:49	4	TAL SAV	CL

Lab ID: 680-58232-4 **Client ID: MW38D**

Sample Date/Time: 06/02/2010 13:00 Received Date/Time: 06/03/2010 12:56

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58232-E-4		680-171008		06/09/2010 13:19	5	TAL SAV	CL
A:8260B	680-58232-E-4		680-171008		06/09/2010 13:19	5	TAL SAV	CL
P:3520C	680-58232-A-4-A		680-171114	680-170727	06/07/2010 14:21	1	TAL SAV	RBS
A:8081A_8082	680-58232-A-4-A		680-171114	680-170727	06/09/2010 19:42	1	TAL SAV	JK
P:3520C	680-58232-A-4-A		680-171118	680-170727	06/07/2010 14:21	1	TAL SAV	RBS
A:8081B/8082A	680-58232-A-4-A		680-171118	680-170727	06/09/2010 19:42	1	TAL SAV	JK
P:3005A	680-58232-C-4-A		680-171623	680-171282	06/11/2010 11:57	1	TAL SAV	RA
A:6010B	680-58232-C-4-A		680-171623	680-171282	06/15/2010 16:59	1	TAL SAV	BCB
P:7470A	680-58232-A-4-B		680-171505	680-171404	06/14/2010 09:10	1	TAL SAV	DH
A:7470A	680-58232-A-4-B		680-171505	680-171404	06/14/2010 17:42	1	TAL SAV	CE

Client: Ashland Inc. Job Number: 680-58232-1

Laboratory Chronicle

Lab ID: 680-58232-5 **Client ID: MW38I**

Sample Date/Time: 06/02/2010 14:00 Received Date/Time: 06/03/2010 12:56

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58232-E-5		680-171009		06/09/2010 12:35	1	TAL SAV	CL
A:8260B	680-58232-E-5		680-171009		06/09/2010 12:35	1	TAL SAV	CL
P:3520C	680-58232-B-5-A		680-171114	680-170727	06/07/2010 14:21	1	TAL SAV	RBS
A:8081A_8082	680-58232-B-5-A		680-171114	680-170727	06/09/2010 20:01	1	TAL SAV	JK
P:3520C	680-58232-B-5-A		680-171118	680-170727	06/07/2010 14:21	1	TAL SAV	RBS
A:8081B/8082A	680-58232-B-5-A		680-171118	680-170727	06/09/2010 20:01	1	TAL SAV	JK
P:3005A	680-58232-C-5-A		680-171623	680-171282	06/11/2010 11:57	1	TAL SAV	RA
A:6010B	680-58232-C-5-A		680-171623	680-171282	06/15/2010 17:04	1	TAL SAV	BCB
P:7470A	680-58232-A-5-C		680-171505	680-171404	06/14/2010 09:10	1	TAL SAV	DH
A:7470A	680-58232-A-5-C		680-171505	680-171404	06/14/2010 17:53	1	TAL SAV	CE

Lab ID: 680-58232-5 MS **Client ID: MW38I**

Sample Date/Time: 06/02/2010 14:00 Received Date/Time: 06/03/2010 12:56

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3520C	680-58232-A-5-A MS		680-171114	680-170727	06/07/2010 14:21	1	TAL SAV	RBS
A:8081A_8082	680-58232-A-5-A MS		680-171114	680-170727	06/10/2010 00:13	1	TAL SAV	JK
P:3520C	680-58232-A-5-A MS		680-171118	680-170727	06/07/2010 14:21	1	TAL SAV	RBS
A:8081B/8082A	680-58232-A-5-A MS		680-171118	680-170727	06/10/2010 00:13	1	TAL SAV	JK

Lab ID: 680-58232-5 MSD **Client ID: MW38I**

Sample Date/Time: 06/02/2010 14:00 Received Date/Time: 06/03/2010 12:56

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3520C	680-58232-A-5-B MSD		680-171114	680-170727	06/07/2010 14:21	1	TAL SAV	RBS
A:8081A_8082	680-58232-A-5-B MSD		680-171114	680-170727	06/10/2010 00:33	1	TAL SAV	JK
P:3520C	680-58232-A-5-B MSD		680-171118	680-170727	06/07/2010 14:21	1	TAL SAV	RBS
A:8081B/8082A	680-58232-A-5-B MSD		680-171118	680-170727	06/10/2010 00:33	1	TAL SAV	JK

Lab ID: 680-58232-6 **Client ID: MW48D**

Sample Date/Time: 06/02/2010 15:30 Received Date/Time: 06/03/2010 12:56

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58232-A-6		680-170857		06/08/2010 19:53	1	TAL SAV	CL
A:8260B	680-58232-A-6		680-170857		06/08/2010 19:53	1	TAL SAV	CL

Client: Ashland Inc. Job Number: 680-58232-1

Laboratory Chronicle

Lab ID: 680-58232-7 **Client ID:** MW13

Sample Date/Time: 06/02/2010 13:20 Received Date/Time: 06/03/2010 12:56

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58232-A-7		680-170857		06/08/2010 20:23	1	TAL SAV	CL
A:8260B	680-58232-A-7		680-170857		06/08/2010 20:23	1	TAL SAV	CL

Lab ID: 680-58232-8 **Client ID:** MW20S

Sample Date/Time: 06/02/2010 10:35 Received Date/Time: 06/03/2010 12:56

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58232-C-8		680-170857		06/08/2010 20:53	1	TAL SAV	CL
A:8260B	680-58232-C-8		680-170857		06/08/2010 20:53	1	TAL SAV	CL
P:3520C	680-58232-A-8-A		680-171114	680-170727	06/07/2010 14:21	1	TAL SAV	RBS
A:8081A_8082	680-58232-A-8-A		680-171114	680-170727	06/09/2010 20:20	1	TAL SAV	JK
P:3520C	680-58232-A-8-A		680-171118	680-170727	06/07/2010 14:21	1	TAL SAV	RBS
A:8081B/8082A	680-58232-A-8-A		680-171118	680-170727	06/09/2010 20:20	1	TAL SAV	JK

Lab ID: 680-58232-9 **Client ID:** MW8

Sample Date/Time: 06/02/2010 07:40 Received Date/Time: 06/03/2010 12:56

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58232-A-9		680-170853		06/08/2010 19:39	1	TAL SAV	CL
A:8260B	680-58232-A-9		680-170853		06/08/2010 19:39	1	TAL SAV	CL

Lab ID: 680-58232-10 **Client ID:** MW6

Sample Date/Time: 06/02/2010 08:20 Received Date/Time: 06/03/2010 12:56

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58232-A-10		680-170853		06/08/2010 20:08	1	TAL SAV	CL
A:8260B	680-58232-A-10		680-170853		06/08/2010 20:08	1	TAL SAV	CL

Lab ID: 680-58232-11 **Client ID:** MW39S

Sample Date/Time: 06/02/2010 09:30 Received Date/Time: 06/03/2010 12:56

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58232-B-11		680-170853		06/08/2010 20:38	1	TAL SAV	CL
A:8260B	680-58232-B-11		680-170853		06/08/2010 20:38	1	TAL SAV	CL
P:3005A	680-58232-A-11-A		680-171623	680-171282	06/11/2010 11:57	1	TAL SAV	RA
A:6010B	680-58232-A-11-A		680-171623	680-171282	06/15/2010 17:09	1	TAL SAV	BCB
P:7470A	680-58232-A-11-B		680-171505	680-171404	06/14/2010 09:10	1	TAL SAV	DH
A:7470A	680-58232-A-11-B		680-171505	680-171404	06/14/2010 17:56	1	TAL SAV	CE

Client: Ashland Inc. Job Number: 680-58232-1

Laboratory Chronicle

Lab ID: 680-58232-12 **Client ID: MW38S**

Sample Date/Time: 06/02/2010 10:25 Received Date/Time: 06/03/2010 12:56

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58232-D-12		680-170853		06/08/2010 19:09	1	TAL SAV	CL
A:8260B	680-58232-D-12		680-170853		06/08/2010 19:09	1	TAL SAV	CL
P:3520C	680-58232-A-12-A		680-171114	680-170727	06/07/2010 14:21	1	TAL SAV	RBS
A:8081A_8082	680-58232-A-12-A		680-171114	680-170727	06/09/2010 20:40	1	TAL SAV	JK
P:3520C	680-58232-A-12-A		680-171118	680-170727	06/07/2010 14:21	1	TAL SAV	RBS
A:8081B/8082A	680-58232-A-12-A		680-171118	680-170727	06/09/2010 20:40	1	TAL SAV	JK
P:3005A	680-58232-C-12-A		680-171623	680-171282	06/11/2010 11:57	1	TAL SAV	RA
A:6010B	680-58232-C-12-A		680-171623	680-171282	06/15/2010 17:14	1	TAL SAV	BCB
P:7470A	680-58232-A-12-B		680-171505	680-171404	06/14/2010 09:10	1	TAL SAV	DH
A:7470A	680-58232-A-12-B		680-171505	680-171404	06/14/2010 17:59	1	TAL SAV	CE

Lab ID: 680-58232-13 **Client ID: MW20I**

Sample Date/Time: 06/02/2010 12:30 Received Date/Time: 06/03/2010 12:56

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58232-C-13		680-171009		06/09/2010 13:04	1	TAL SAV	CL
A:8260B	680-58232-C-13		680-171009		06/09/2010 13:04	1	TAL SAV	CL
P:3520C	680-58232-B-13-A		680-171114	680-170727	06/07/2010 14:21	1	TAL SAV	RBS
A:8081A_8082	680-58232-B-13-A		680-171114	680-170727	06/09/2010 20:59	1	TAL SAV	JK
P:3520C	680-58232-B-13-A		680-171118	680-170727	06/07/2010 14:21	1	TAL SAV	RBS
A:8081B/8082A	680-58232-B-13-A		680-171118	680-170727	06/09/2010 20:59	1	TAL SAV	JK

Lab ID: 680-58232-14 **Client ID: Trip Blank 051110**

Sample Date/Time: 06/02/2010 00:00 Received Date/Time: 06/03/2010 12:56

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58232-A-14		680-170857		06/08/2010 14:57	1	TAL SAV	CL
A:8260B	680-58232-A-14		680-170857		06/08/2010 14:57	1	TAL SAV	CL

Client: Ashland Inc. Job Number: 680-58232-1

Laboratory Chronicle

Lab ID: MB **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	MB 680-170853/9		680-170853		06/08/2010 12:11	1	TAL SAV	CL
A:8260B	MB 680-170853/9		680-170853		06/08/2010 12:11	1	TAL SAV	CL
P:5030B	MB 680-170857/9		680-170857		06/08/2010 12:26	1	TAL SAV	CL
A:8260B	MB 680-170857/9		680-170857		06/08/2010 12:26	1	TAL SAV	CL
P:5030B	MB 680-171009/10		680-171009		06/09/2010 12:05	1	TAL SAV	CL
A:8260B	MB 680-171009/10		680-171009		06/09/2010 12:05	1	TAL SAV	CL
P:5030B	MB 680-171008/9		680-171008		06/09/2010 12:20	1	TAL SAV	CL
A:8260B	MB 680-171008/9		680-171008		06/09/2010 12:20	1	TAL SAV	CL
P:3520C	MB 680-170727/15-A		680-171114	680-170727	06/07/2010 14:21	1	TAL SAV	RBS
A:8081A_8082	MB 680-170727/15-A		680-171114	680-170727	06/09/2010 17:45	1	TAL SAV	JK
P:3520C	MB 680-170727/15-A		680-171118	680-170727	06/07/2010 14:21	1	TAL SAV	RBS
A:8081B/8082A	MB 680-170727/15-A		680-171118	680-170727	06/09/2010 17:45	1	TAL SAV	JK
P:3005A	MB 680-171282/21-A		680-171623	680-171282	06/11/2010 11:57	1	TAL SAV	RA
A:6010B	MB 680-171282/21-A		680-171623	680-171282	06/15/2010 15:43	1	TAL SAV	BCB
P:7470A	MB 680-171404/23-A		680-171505	680-171404	06/14/2010 09:10	1	TAL SAV	DH
A:7470A	MB 680-171404/23-A		680-171505	680-171404	06/14/2010 16:29	1	TAL SAV	CE

Lab ID: LCS **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCS 680-170853/6		680-170853		06/08/2010 10:13	1	TAL SAV	CL
A:8260B	LCS 680-170853/6		680-170853		06/08/2010 10:13	1	TAL SAV	CL
P:5030B	LCS 680-170857/6		680-170857		06/08/2010 10:28	1	TAL SAV	CL
A:8260B	LCS 680-170857/6		680-170857		06/08/2010 10:28	1	TAL SAV	CL
P:5030B	LCS 680-171009/4		680-171009		06/09/2010 10:07	1	TAL SAV	CL
A:8260B	LCS 680-171009/4		680-171009		06/09/2010 10:07	1	TAL SAV	CL
P:5030B	LCS 680-171008/4		680-171008		06/09/2010 10:22	1	TAL SAV	CL
A:8260B	LCS 680-171008/4		680-171008		06/09/2010 10:22	1	TAL SAV	CL
P:3520C	LCS 680-170727/20-A		680-171114	680-170727	06/07/2010 14:21	1	TAL SAV	RBS
A:8081A_8082	LCS 680-170727/20-A		680-171114	680-170727	06/09/2010 19:22	1	TAL SAV	JK
P:3520C	LCS 680-170727/20-A		680-171118	680-170727	06/07/2010 14:21	1	TAL SAV	RBS
A:8081B/8082A	LCS 680-170727/20-A		680-171118	680-170727	06/09/2010 19:22	1	TAL SAV	JK
P:3005A	LCS 680-171282/22-A		680-171623	680-171282	06/11/2010 11:57	1	TAL SAV	RA
A:6010B	LCS 680-171282/22-A		680-171623	680-171282	06/15/2010 15:48	1	TAL SAV	BCB
P:7470A	LCS 680-171404/24-A		680-171505	680-171404	06/14/2010 09:10	1	TAL SAV	DH
A:7470A	LCS 680-171404/24-A		680-171505	680-171404	06/14/2010 16:32	1	TAL SAV	CE

Client: Ashland Inc. Job Number: 680-58232-1

Laboratory Chronicle

Lab ID: LCSD **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCSD 680-170853/7		680-170853		06/08/2010 10:42	1	TAL SAV	CL
A:8260B	LCSD 680-170853/7		680-170853		06/08/2010 10:42	1	TAL SAV	CL
P:5030B	LCSD 680-170857/7		680-170857		06/08/2010 10:57	1	TAL SAV	CL
A:8260B	LCSD 680-170857/7		680-170857		06/08/2010 10:57	1	TAL SAV	CL
P:5030B	LCSD 680-171009/8		680-171009		06/09/2010 10:37	1	TAL SAV	CL
A:8260B	LCSD 680-171009/8		680-171009		06/09/2010 10:37	1	TAL SAV	CL
P:5030B	LCSD 680-171008/5		680-171008		06/09/2010 10:51	1	TAL SAV	CL
A:8260B	LCSD 680-171008/5		680-171008		06/09/2010 10:51	1	TAL SAV	CL

Lab References:

TAL SAV = TestAmerica Savannah

Serial Number 026436

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah (marked X)
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE: Ashland Brunswick
PROJECT NO.: J0984950?9
PROJECT LOCATION (STATE): GA
TAL (LAB) PROJECT MANAGER: ~~Tim Hassett~~ Lidia Gilizia
P.O. NUMBER: 4501306047
CONTRACT NO.:
CLIENT (SITE) PM: Tim Hassett
CLIENT PHONE:
CLIENT FAX:
CLIENT NAME: Ashland Hercules
CLIENT E-MAIL:
CLIENT ADDRESS: 2508 Cook St Brunswick GA
COMPANY CONTRACTING THIS WORK (if applicable):

PAGE 1 OF 2

STANDARD REPORT DELIVERY (X)
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE)
DATE DUE
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

REQUIRED ANALYSIS: VOC's | Technical Total Toxaphene | Metals
PRESERVATIVE: Na | Na |

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	VOC's	Technical Total Toxaphene	Metals	REMARKS
6/2/10	1000	MW39D	G	X				3		1	
	1050	MW39I						3		1	
	1200	MW20D						3			
	1300	MW38D						3	2	1	
	1480	MW38I						3	2	1	
	1530	MW48D						3			
	1320	MW~~?~~ PZ 13						3			
	1035	MW20S						3			
	~~?~~0740	MW8						3			
	0820	MW6						3			
	0930	MW39S						3		1	
	1025	MW38S	G	X				3	2	1	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	6/2/10	1700						

RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
[signature]	6/3/10	0924	YES ◯ NO ◯		680-58232	3.8/0.2°c

TAL8240-680 (1207)

Serial Number 026437

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

~~TestAmerica Savannah~~
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE: Ashland Brunswick	PROJECT NO.	PROJECT LOCATION (STATE): GA
TAL (LAB) PROJECT MANAGER: ~~Tim~~ Lidia G.	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: Tim Hassett	CLIENT PHONE	CLIENT FAX
CLIENT NAME: Ashland Hercules	CLIENT E-MAIL	
CLIENT ADDRESS		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 2 OF 2

STANDARD REPORT DELIVERY (crossed out) DATE DUE

EXPEDITED REPORT DELIVERY (SURCHARGE) DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

REQUIRED ANALYSIS: VOCs; Total Toxaphene (Total technical toxaphene); Metals

PRESERVATIVE

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	VOCs	Total Toxaphene / Metals								REMARKS
6/2/10	1230	MW20I	G	X				3	2								
		Trip Blank 051110	G	X				2									

NUMBER OF CONTAINERS SUBMITTED

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	6/12/10	1700						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
[signature]	6/13/10	0924	YES ○ NO ○		680-58232	

TAL8240-680 (1207)

Login Sample Receipt Check List

Client: Ashland Inc.

Job Number: 680-58232-1

Login Number: 58232

List Source: TestAmerica Savannah

Creator: Conner, Keaton

List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	2 coolers recld on ice
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.8 and 0.2 C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
phere are no discreOancies betf een the samOe IDs on the containers and the COC.	False	Received toxaphene volume for -8 not listed on COC
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	MW-38D - 1 liter received broken
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	MS/MSd not received (no additional volume provided).
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	N/A	
Sample Preservation Verified	True	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 680-58279-1

Job Description: Ashland Brunswick RFI GW June 2010

For:
Ashland Inc.
500 Hercules Road
Wilmington, DE 19894

Attention: Timothy Hassett

Approved for release.
Lidya Gulizia
Project Manager I
6/29/2010 1:42 PM

Lidya Gulizia
Project Manager I
lidya.gulizia@testamericainc.com
06/29/2010

cc: Kelley Baker
Mr. Leroy Bishop
Mr. Dennis Brunner
Ryan Cate
Mr. Tony Mancini
Ms. Charlene Rivard

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

Savannah Certifications and ID #s: A2LA: 0399.01; AL: 41450; ARDEQ: 88-0692; ARDOH; AZ: AZ0741; CA: 03217CA; CO; CT: PH0161; DE; FL: E87052; GA: 803; Guam; HI; IL: 200022; IN; IA: 353; KS: E-10322; KY EPPC: 90084; KY UST; LA DEQ: 30690; LA DHH: LA080008; ME: 2008022; MD: 250; MA: M-GA006; MI: 9925; MS; NFESC: 249; NV: GA00006; NJ: GA769; NM; NY: 10842; NC DWQ: 269; NC DHHS: 13701; PA: 68-00474; PR: GA00006; RI: LAO00244; SC: 98001001; TN: TN0296; TX: T104704185; USEPA: GA00006; VT: VT-87052; VA: 00302; WA; WV DEP: 094; WV DHHR: 9950 C; WI DNR: 999819810; WY/EPAR8: 8TMS-Q

TestAmerica Laboratories, Inc.
TestAmerica Savannah 5102 LaRoche Avenue, Savannah, GA 31404
Tel (912) 354-7858 Fax (912) 352-0165 www.testamericainc.com

ACCREDITED IN ACCORDANCE WITH nelac

Receipt
All samples were received in good condition within temperature requirements.

GC/MS VOA
Method(s) 8260B: The equipment blank associated with these samples contained a detection above the method detection limit (MDL) for the following analytes: 2-butanone, 4-methyl-2-pentanone, and acetone.

Method(s) 8260B: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for batch 171000 exceeded control limits for the following analytes: Chloroethane.

No other analytical or quality issues were noted.

GC Semi VOA
No analytical or quality issues were noted.

Metals
No analytical or quality issues were noted.

Comments
No additional comments.

METHOD SUMMARY

Client: Ashland Inc. Job Number: 680-58279-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL SAV	SW846 8260B	
Purge and Trap	TAL SAV		SW846 5030B
Organochlorine Pesticides & PCBs (GC)	TAL SAV	SW846 8081A_8082	
Liquid-Liquid Extraction (Continuous)	TAL SAV		SW846 3520C
Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography	TAL SAV	SW846 8081B/8082A	
Liquid-Liquid Extraction (Continuous)	TAL SAV		SW846 3520C
Metals (ICP)	TAL SAV	SW846 6010B	
Preparation, Total Recoverable or Dissolved Metals	TAL SAV		SW846 3005A
Mercury (CVAA)	TAL SAV	SW846 7470A	
Preparation, Mercury	TAL SAV		SW846 7470A

Lab References:

TAL SAV = TestAmerica Savannah

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Ashland Inc. Job Number: 680-58279-1

Method	Analyst	Analyst ID
SW846 8260B	Bearden, Robert	RB
SW846 8260B	Cowart, Judson	WJC
SW846 8260B	Lanier, Carolyn	CL
SW846 8260B	Waldorf, Jonathan	JW
SW846 8081A_8082	Kellar, Joshua	JK
SW846 8081B/8082A	Kellar, Joshua	JK
SW846 6010B	Bland, Brian	BCB
SW846 7470A	Eaton, Cliff	CE

SAMPLE SUMMARY

Client: Ashland Inc. Job Number: 680-58279-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-58279-1	MW2D	Water	06/03/2010 0750	06/04/2010 1030
680-58279-2	MW44I	Water	06/03/2010 1000	06/04/2010 1030
680-58279-3	MW44ID	Water	06/03/2010 1130	06/04/2010 1030
680-58279-4	MW44D	Water	06/03/2010 1400	06/04/2010 1030
680-58279-5	MW2S	Water	06/03/2010 0745	06/04/2010 1030
680-58279-6	MW1S	Water	06/03/2010 0820	06/04/2010 1030
680-58279-7	MW25S	Water	06/03/2010 0855	06/04/2010 1030
680-58279-8	MW25D	Water	06/03/2010 0930	06/04/2010 1030
680-58279-9	MW14S	Water	06/03/2010 1100	06/04/2010 1030
680-58279-10	MW14D	Water	06/03/2010 1150	06/04/2010 1030
680-58279-11	MW15S	Water	06/03/2010 1720	06/04/2010 1030
680-58279-12EB	Equip Blank (Mega Monsoon)	Water	06/02/2010 1800	06/04/2010 1030
680-58279-13EB	Equip Blank (PP)	Water	06/02/2010 1830	06/04/2010 1030
680-58279-14FB	Field Blank 1	Water	06/03/2010 1630	06/04/2010 1030
680-58279-15TB	Trip Blank Lot 051110	Water	06/03/2010 0000	06/04/2010 1030
680-58279-16	MW-44S	Water	06/03/2010 1400	06/04/2010 1030
680-58279-17	MW-1D	Water	06/03/2010 0900	06/04/2010 1030

SAMPLE RESULTS

Client: Ashland Inc. Job Number: 680-58279-1

Client Sample ID: **MW2D**

Lab Sample ID: 680-58279-1 Date Sampled: 06/03/2010 0750
Client Matrix: Water Date Received: 06/04/2010 1030

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-171163 Instrument ID: MSO
Preparation: 5030B Lab File ID: o0053.d
Dilution: 5.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/10/2010 0128 Final Weight/Volume: 5 mL
Date Prepared: 06/10/2010 0128

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	120	U	25	120
Acetonitrile	200	U	50	200
Acrolein	100	U	37	100
Acrylonitrile	100	U	36	100
Benzene	160		1.2	5.0
Bromoform	5.0	U	2.5	5.0
Bromomethane	5.0	U	4.0	5.0
2-Butanone (MEK)	50	U	5.0	50
Carbon disulfide	10	U	3.0	10
Carbon tetrachloride	5.0	U	2.5	5.0
Chlorobenzene	240		1.2	5.0
2-Chloro-1,3-butadiene	5.0	U	1.5	5.0
Chlorodibromomethane	5.0	U	0.50	5.0
Chloroethane	5.0	U	5.0	5.0
Chloroform	5.0	U	0.70	5.0
Chloromethane	5.0	U	1.6	5.0
3-Chloro-1-propene	5.0	U	1.0	5.0
cis-1,3-Dichloropropene	5.0	U	0.55	5.0
1,2-Dibromo-3-Chloropropane	5.0	U	2.2	5.0
Dibromomethane	5.0	U	1.0	5.0
Dichlorobromomethane	5.0	U	1.2	5.0
Dichlorodifluoromethane	5.0	U	1.2	5.0
1,1-Dichloroethane	5.0	U	1.2	5.0
1,2-Dichloroethane	5.0	U	0.50	5.0
1,1-Dichloroethene	5.0	U	0.55	5.0
1,2-Dichloropropane	5.0	U	0.65	5.0
Ethylbenzene	350		0.55	5.0
Ethylene Dibromide	5.0	U	1.2	5.0
Ethyl methacrylate	5.0	U	1.2	5.0
2-Hexanone	50	U	5.0	50
Iodomethane	25	U	5.0	25
Isobutyl alcohol	200	U	55	200
Methacrylonitrile	100	U	16	100
Methylene Chloride	25	U	5.0	25
Methyl methacrylate	5.0	U	2.4	5.0
4-Methyl-2-pentanone (MIBK)	50	U	5.0	50
Pentachloroethane	25	U	6.0	25
Propionitrile	100	U	23	100
Styrene	5.0	U	0.55	5.0
1,1,1,2-Tetrachloroethane	5.0	U	1.6	5.0
1,1,2,2-Tetrachloroethane	5.0	U	0.90	5.0
Tetrachloroethene	5.0	U	0.75	5.0
Toluene	3.2	J	1.6	5.0
trans-1,4-Dichloro-2-butene	10	U	2.5	10
trans-1,2-Dichloroethene	5.0	U	1.0	5.0
trans-1,3-Dichloropropene	5.0	U	1.0	5.0

Client: Ashland Inc. Job Number: 680-58279-1

Client Sample ID: **MW2D**

Lab Sample ID: 680-58279-1 Date Sampled: 06/03/2010 0750
Client Matrix: Water Date Received: 06/04/2010 1030

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-171163 Instrument ID: MSO
Preparation: 5030B Lab File ID: o0053.d
Dilution: 5.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/10/2010 0128 Final Weight/Volume: 5 mL
Date Prepared: 06/10/2010 0128

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	5.0	U	2.5	5.0
1,1,2-Trichloroethane	5.0	U	0.65	5.0
Trichloroethene	5.0	U	0.65	5.0
Trichlorofluoromethane	5.0	U	1.2	5.0
1,2,3-Trichloropropane	5.0	U	2.0	5.0
Vinyl acetate	10	U	1.4	10
Vinyl chloride	7.7		0.90	5.0
Xylenes, Total	290		1.0	10

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	99		75 - 120
Dibromofluoromethane	92		75 - 121
Toluene-d8 (Surr)	105		75 - 120

Client: Ashland Inc. Job Number: 680-58279-1

Client Sample ID: **MW44I**

Lab Sample ID: 680-58279-2 Date Sampled: 06/03/2010 1000
Client Matrix: Water Date Received: 06/04/2010 1030

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-171000 Instrument ID: MSA
Preparation: 5030B Lab File ID: a0019.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/09/2010 1628 Final Weight/Volume: 5 mL
Date Prepared: 06/09/2010 1628

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	13	J	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	94		0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	52		0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U *	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U *	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	0.30	J	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	0.48	J	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-58279-1

Client Sample ID: **MW44I**

Lab Sample ID: 680-58279-2 Date Sampled: 06/03/2010 1000
Client Matrix: Water Date Received: 06/04/2010 1030

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-171000	Instrument ID: MSA
Preparation:	5030B		Lab File ID: a0019.d
Dilution:	1.0		Initial Weight/Volume: 5 mL
Date Analyzed:	06/09/2010 1628		Final Weight/Volume: 5 mL
Date Prepared:	06/09/2010 1628		

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	1.7	J	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	109		75 - 120
Dibromofluoromethane	106		75 - 121
Toluene-d8 (Surr)	109		75 - 120

Client: Ashland Inc. Job Number: 680-58279-1

Client Sample ID: **MW44ID**

Lab Sample ID: 680-58279-3 Date Sampled: 06/03/2010 1130
Client Matrix: Water Date Received: 06/04/2010 1030

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-171185 Instrument ID: MSO
Preparation: 5030B Lab File ID: o0068.d
Dilution: 5.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/10/2010 1331 Final Weight/Volume: 5 mL
Date Prepared: 06/10/2010 1331

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	120	U	25	120
Acetonitrile	200	U	50	200
Acrolein	100	U	37	100
Acrylonitrile	100	U	36	100
Benzene	220		1.2	5.0
Bromoform	5.0	U	2.5	5.0
Bromomethane	5.0	U	4.0	5.0
2-Butanone (MEK)	50	U	5.0	50
Carbon disulfide	10	U	3.0	10
Carbon tetrachloride	5.0	U	2.5	5.0
Chlorobenzene	230		1.2	5.0
2-Chloro-1,3-butadiene	5.0	U	1.5	5.0
Chlorodibromomethane	5.0	U	0.50	5.0
Chloroethane	5.0	U	5.0	5.0
Chloroform	580		0.70	5.0
Chloromethane	5.0	U	1.6	5.0
3-Chloro-1-propene	5.0	U	1.0	5.0
cis-1,3-Dichloropropene	5.0	U	0.55	5.0
1,2-Dibromo-3-Chloropropane	5.0	U	2.2	5.0
Dibromomethane	5.0	U	1.0	5.0
Dichlorobromomethane	5.0	U	1.2	5.0
Dichlorodifluoromethane	5.0	U	1.2	5.0
1,1-Dichloroethane	5.0	U	1.2	5.0
1,2-Dichloroethane	5.0	U	0.50	5.0
1,1-Dichloroethene	5.0	U	0.55	5.0
1,2-Dichloropropane	5.0	U	0.65	5.0
Ethylbenzene	220		0.55	5.0
Ethylene Dibromide	5.0	U	1.2	5.0
Ethyl methacrylate	5.0	U	1.2	5.0
2-Hexanone	50	U	5.0	50
Iodomethane	25	U	5.0	25
Isobutyl alcohol	200	U	55	200
Methacrylonitrile	100	U	16	100
Methylene Chloride	22	J	5.0	25
Methyl methacrylate	5.0	U	2.4	5.0
4-Methyl-2-pentanone (MIBK)	50	U	5.0	50
Pentachloroethane	25	U	6.0	25
Propionitrile	100	U	23	100
Styrene	5.0	U	0.55	5.0
1,1,1,2-Tetrachloroethane	5.0	U	1.6	5.0
1,1,2,2-Tetrachloroethane	5.0	U	0.90	5.0
Tetrachloroethene	5.0	U	0.75	5.0
Toluene	27		1.6	5.0
trans-1,4-Dichloro-2-butene	10	U	2.5	10
trans-1,2-Dichloroethene	5.0	U	1.0	5.0
trans-1,3-Dichloropropene	5.0	U	1.0	5.0

Client: Ashland Inc. Job Number: 680-58279-1

Client Sample ID: **MW44ID**

Lab Sample ID: 680-58279-3 Date Sampled: 06/03/2010 1130
Client Matrix: Water Date Received: 06/04/2010 1030

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-171185 Instrument ID: MSO
Preparation: 5030B Lab File ID: o0068.d
Dilution: 5.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/10/2010 1331 Final Weight/Volume: 5 mL
Date Prepared: 06/10/2010 1331

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	5.0	U	2.5	5.0
1,1,2-Trichloroethane	5.0	U	0.65	5.0
Trichloroethene	5.0	U	0.65	5.0
Trichlorofluoromethane	5.0	U	1.2	5.0
1,2,3-Trichloropropane	5.0	U	2.0	5.0
Vinyl acetate	10	U	1.4	10
Vinyl chloride	5.0	U	0.90	5.0
Xylenes, Total	610		1.0	10

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	103		75 - 120
Dibromofluoromethane	95		75 - 121
Toluene-d8 (Surr)	105		75 - 120

Client: Ashland Inc. Job Number: 680-58279-1

Client Sample ID: **MW44D**

Lab Sample ID: 680-58279-4 Date Sampled: 06/03/2010 1400
Client Matrix: Water Date Received: 06/04/2010 1030

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-171163 Instrument ID: MSO
Preparation: 5030B Lab File ID: o0054.d
Dilution: 2.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/10/2010 0148 Final Weight/Volume: 5 mL
Date Prepared: 06/10/2010 0148

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	50	U	10	50
Acetonitrile	80	U	20	80
Acrolein	40	U	15	40
Acrylonitrile	40	U	14	40
Benzene	340		0.50	2.0
Bromoform	2.0	U	1.0	2.0
Bromomethane	2.0	U	1.6	2.0
2-Butanone (MEK)	20	U	2.0	20
Carbon disulfide	4.0	U	1.2	4.0
Carbon tetrachloride	2.0	U	1.0	2.0
Chlorobenzene	52		0.50	2.0
2-Chloro-1,3-butadiene	2.0	U	0.60	2.0
Chlorodibromomethane	2.0	U	0.20	2.0
Chloroethane	2.0	U	2.0	2.0
Chloroform	2.0	U	0.28	2.0
Chloromethane	2.0	U	0.66	2.0
3-Chloro-1-propene	2.0	U	0.40	2.0
cis-1,3-Dichloropropene	2.0	U	0.22	2.0
1,2-Dibromo-3-Chloropropane	2.0	U	0.88	2.0
Dibromomethane	2.0	U	0.40	2.0
Dichlorobromomethane	2.0	U	0.50	2.0
Dichlorodifluoromethane	2.0	U	0.50	2.0
1,1-Dichloroethane	2.0	U	0.50	2.0
1,2-Dichloroethane	8.1		0.20	2.0
1,1-Dichloroethene	2.0	U	0.22	2.0
1,2-Dichloropropane	2.0	U	0.26	2.0
Ethylbenzene	2.6		0.22	2.0
Ethylene Dibromide	2.0	U	0.50	2.0
Ethyl methacrylate	2.0	U	0.50	2.0
2-Hexanone	20	U	2.0	20
Iodomethane	10	U	2.0	10
Isobutyl alcohol	80	U	22	80
Methacrylonitrile	40	U	6.6	40
Methylene Chloride	10	U	2.0	10
Methyl methacrylate	2.0	U	0.96	2.0
4-Methyl-2-pentanone (MIBK)	20	U	2.0	20
Pentachloroethane	10	U	2.4	10
Propionitrile	40	U	9.2	40
Styrene	2.0	U	0.22	2.0
1,1,1,2-Tetrachloroethane	2.0	U	0.66	2.0
1,1,2,2-Tetrachloroethane	2.0	U	0.36	2.0
Tetrachloroethene	2.0	U	0.30	2.0
Toluene	8.6		0.66	2.0
trans-1,4-Dichloro-2-butene	4.0	U	1.0	4.0
trans-1,2-Dichloroethene	2.0	U	0.40	2.0
trans-1,3-Dichloropropene	2.0	U	0.42	2.0

Client: Ashland Inc. Job Number: 680-58279-1

Client Sample ID: **MW44D**

Lab Sample ID: 680-58279-4 Date Sampled: 06/03/2010 1400
Client Matrix: Water Date Received: 06/04/2010 1030

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-171163 Instrument ID: MSO
Preparation: 5030B Lab File ID: o0054.d
Dilution: 2.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/10/2010 0148 Final Weight/Volume: 5 mL
Date Prepared: 06/10/2010 0148

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	2.0	U	1.0	2.0
1,1,2-Trichloroethane	2.0	U	0.26	2.0
Trichloroethene	2.0	U	0.26	2.0
Trichlorofluoromethane	2.0	U	0.50	2.0
1,2,3-Trichloropropane	2.0	U	0.82	2.0
Vinyl acetate	4.0	U	0.56	4.0
Vinyl chloride	2.0	U	0.36	2.0
Xylenes, Total	8.1		0.40	4.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	99		75 - 120
Dibromofluoromethane	86		75 - 121
Toluene-d8 (Surr)	107		75 - 120

Client: Ashland Inc. Job Number: 680-58279-1

Client Sample ID: **MW2S**

Lab Sample ID: 680-58279-5 Date Sampled: 06/03/2010 0745
Client Matrix: Water Date Received: 06/04/2010 1030

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-171185 Instrument ID: MSO
Preparation: 5030B Lab File ID: o0069.d
Dilution: 5.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/10/2010 1352 Final Weight/Volume: 5 mL
Date Prepared: 06/10/2010 1352

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	120	U	25	120
Acetonitrile	200	U	50	200
Acrolein	100	U	37	100
Acrylonitrile	100	U	36	100
Benzene	110		1.2	5.0
Bromoform	5.0	U	2.5	5.0
Bromomethane	5.0	U	4.0	5.0
2-Butanone (MEK)	50	U	5.0	50
Carbon disulfide	10	U	3.0	10
Carbon tetrachloride	5.0	U	2.5	5.0
Chlorobenzene	260		1.2	5.0
2-Chloro-1,3-butadiene	5.0	U	1.5	5.0
Chlorodibromomethane	5.0	U	0.50	5.0
Chloroethane	5.0	U	5.0	5.0
Chloroform	5.0	U	0.70	5.0
Chloromethane	5.0	U	1.6	5.0
3-Chloro-1-propene	5.0	U	1.0	5.0
cis-1,3-Dichloropropene	5.0	U	0.55	5.0
1,2-Dibromo-3-Chloropropane	5.0	U	2.2	5.0
Dibromomethane	5.0	U	1.0	5.0
Dichlorobromomethane	5.0	U	1.2	5.0
Dichlorodifluoromethane	5.0	U	1.2	5.0
1,1-Dichloroethane	5.0	U	1.2	5.0
1,2-Dichloroethane	5.0	U	0.50	5.0
1,1-Dichloroethene	5.0	U	0.55	5.0
1,2-Dichloropropane	5.0	U	0.65	5.0
Ethylbenzene	280		0.55	5.0
Ethylene Dibromide	5.0	U	1.2	5.0
Ethyl methacrylate	5.0	U	1.2	5.0
2-Hexanone	50	U	5.0	50
Iodomethane	25	U	5.0	25
Isobutyl alcohol	200	U	55	200
Methacrylonitrile	100	U	16	100
Methylene Chloride	25	U	5.0	25
Methyl methacrylate	5.0	U	2.4	5.0
4-Methyl-2-pentanone (MIBK)	50	U	5.0	50
Pentachloroethane	25	U	6.0	25
Propionitrile	100	U	23	100
Styrene	5.0	U	0.55	5.0
1,1,1,2-Tetrachloroethane	5.0	U	1.6	5.0
1,1,2,2-Tetrachloroethane	5.0	U	0.90	5.0
Tetrachloroethene	5.0	U	0.75	5.0
Toluene	11		1.6	5.0
trans-1,4-Dichloro-2-butene	10	U	2.5	10
trans-1,2-Dichloroethene	5.0	U	1.0	5.0
trans-1,3-Dichloropropene	5.0	U	1.0	5.0

Client: Ashland Inc. Job Number: 680-58279-1

Client Sample ID: **MW2S**

Lab Sample ID: 680-58279-5 Date Sampled: 06/03/2010 0745
Client Matrix: Water Date Received: 06/04/2010 1030

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-171185 Instrument ID: MSO
Preparation: 5030B Lab File ID: o0069.d
Dilution: 5.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/10/2010 1352 Final Weight/Volume: 5 mL
Date Prepared: 06/10/2010 1352

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	5.0	U	2.5	5.0
1,1,2-Trichloroethane	5.0	U	0.65	5.0
Trichloroethene	5.0	U	0.65	5.0
Trichlorofluoromethane	5.0	U	1.2	5.0
1,2,3-Trichloropropane	5.0	U	2.0	5.0
Vinyl acetate	10	U	1.4	10
Vinyl chloride	5.0	U	0.90	5.0
Xylenes, Total	24		1.0	10

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	100		75 - 120
Dibromofluoromethane	93		75 - 121
Toluene-d8 (Surr)	106		75 - 120

Client: Ashland Inc. Job Number: 680-58279-1

Client Sample ID: **MW1S**

Lab Sample ID: 680-58279-6 Date Sampled: 06/03/2010 0820
Client Matrix: Water Date Received: 06/04/2010 1030

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-171163 Instrument ID: MSO
Preparation: 5030B Lab File ID: o0059.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/10/2010 0332 Final Weight/Volume: 5 mL
Date Prepared: 06/10/2010 0332

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	9.5	J	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	35		0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	110		0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	0.62	J	0.13	1.0
Ethylbenzene	1.2		0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	2.1		0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-58279-1

Client Sample ID: **MW1S**

Lab Sample ID: 680-58279-6 Date Sampled: 06/03/2010 0820
Client Matrix: Water Date Received: 06/04/2010 1030

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-171163 Instrument ID: MSO
Preparation: 5030B Lab File ID: o0059.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/10/2010 0332 Final Weight/Volume: 5 mL
Date Prepared: 06/10/2010 0332

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.1		0.18	1.0
Xylenes, Total	97		0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	97		75 - 120
Dibromofluoromethane	98		75 - 121
Toluene-d8 (Surr)	104		75 - 120

Client: Ashland Inc. Job Number: 680-58279-1

Client Sample ID: **MW25S**

Lab Sample ID: 680-58279-7 Date Sampled: 06/03/2010 0855
Client Matrix: Water Date Received: 06/04/2010 1030

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-171185 Instrument ID: MSO
Preparation: 5030B Lab File ID: o0066.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/10/2010 1250 Final Weight/Volume: 5 mL
Date Prepared: 06/10/2010 1250

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	12	J	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	0.35	J	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0		0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	0.57	J	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-58279-1

Client Sample ID: **MW25S**

Lab Sample ID: 680-58279-7 Date Sampled: 06/03/2010 0855
Client Matrix: Water Date Received: 06/04/2010 1030

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-171185 Instrument ID: MSO
Preparation: 5030B Lab File ID: o0066.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/10/2010 1250 Final Weight/Volume: 5 mL
Date Prepared: 06/10/2010 1250

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	45		0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	101		75 - 120
Dibromofluoromethane	99		75 - 121
Toluene-d8 (Surr)	107		75 - 120

Client: Ashland Inc. Job Number: 680-58279-1

Client Sample ID: **MW25D**

Lab Sample ID: 680-58279-8 Date Sampled: 06/03/2010 0930
Client Matrix: Water Date Received: 06/04/2010 1030

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-171003 Instrument ID: MSA2
Preparation: 5030B Lab File ID: a0020.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/09/2010 1642 Final Weight/Volume: 5 mL
Date Prepared: 06/09/2010 1642

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-58279-1

Client Sample ID: **MW25D**

Lab Sample ID: 680-58279-8 Date Sampled: 06/03/2010 0930
Client Matrix: Water Date Received: 06/04/2010 1030

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-171003 Instrument ID: MSA2
Preparation: 5030B Lab File ID: a0020.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/09/2010 1642 Final Weight/Volume: 5 mL
Date Prepared: 06/09/2010 1642

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	95		75 - 120
Dibromofluoromethane	94		75 - 121
Toluene-d8 (Surr)	109		75 - 120

Client: Ashland Inc. Job Number: 680-58279-1

Client Sample ID: **MW14S**

Lab Sample ID: 680-58279-9 Date Sampled: 06/03/2010 1100
Client Matrix: Water Date Received: 06/04/2010 1030

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-171185		Instrument ID:	MSO
Preparation:	5030B			Lab File ID:	o0063.d
Dilution:	1.0			Initial Weight/Volume:	5 mL
Date Analyzed:	06/10/2010 1147			Final Weight/Volume:	5 mL
Date Prepared:	06/10/2010 1147				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	59		5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-58279-1

Client Sample ID: **MW14S**

Lab Sample ID: 680-58279-9 Date Sampled: 06/03/2010 1100
Client Matrix: Water Date Received: 06/04/2010 1030

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-171185 Instrument ID: MSO
Preparation: 5030B Lab File ID: o0063.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/10/2010 1147 Final Weight/Volume: 5 mL
Date Prepared: 06/10/2010 1147

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	95		75 - 120
Dibromofluoromethane	100		75 - 121
Toluene-d8 (Surr)	106		75 - 120

Client: Ashland Inc. Job Number: 680-58279-1

Client Sample ID: **MW14D**

Lab Sample ID: 680-58279-10 Date Sampled: 06/03/2010 1150
Client Matrix: Water Date Received: 06/04/2010 1030

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-171185 Instrument ID: MSO
Preparation: 5030B Lab File ID: o0064.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/10/2010 1208 Final Weight/Volume: 5 mL
Date Prepared: 06/10/2010 1208

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	5.2		0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-58279-1

Client Sample ID: **MW14D**

Lab Sample ID: 680-58279-10 Date Sampled: 06/03/2010 1150
Client Matrix: Water Date Received: 06/04/2010 1030

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-171185 Instrument ID: MSO
Preparation: 5030B Lab File ID: o0064.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/10/2010 1208 Final Weight/Volume: 5 mL
Date Prepared: 06/10/2010 1208

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	96		75 - 120
Dibromofluoromethane	97		75 - 121
Toluene-d8 (Surr)	104		75 - 120

Client: Ashland Inc. Job Number: 680-58279-1

Client Sample ID: **MW15S**

Lab Sample ID: 680-58279-11 Date Sampled: 06/03/2010 1720
Client Matrix: Water Date Received: 06/04/2010 1030

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-171003 Instrument ID: MSA2
Preparation: 5030B Lab File ID: a0026.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/09/2010 1933 Final Weight/Volume: 5 mL
Date Prepared: 06/09/2010 1933

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	0.66	J	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-58279-1

Client Sample ID: **MW15S**

Lab Sample ID: 680-58279-11 Date Sampled: 06/03/2010 1720
Client Matrix: Water Date Received: 06/04/2010 1030

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-171003 Instrument ID: MSA2
Preparation: 5030B Lab File ID: a0026.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/09/2010 1933 Final Weight/Volume: 5 mL
Date Prepared: 06/09/2010 1933

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	96		75 - 120
Dibromofluoromethane	97		75 - 121
Toluene-d8 (Surr)	106		75 - 120

Client: Ashland Inc. Job Number: 680-58279-1

Client Sample ID: **Equip Blank (Mega Monsoon)**

Lab Sample ID: 680-58279-12EB Date Sampled: 06/02/2010 1800
Client Matrix: Water Date Received: 06/04/2010 1030

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-170853		Instrument ID:	MSP
Preparation:	5030B			Lab File ID:	p0171.d
Dilution:	1.0			Initial Weight/Volume:	5 mL
Date Analyzed:	06/08/2010 1542			Final Weight/Volume:	5 mL
Date Prepared:	06/08/2010 1542				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	6.4	J	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	2.1	J	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	1.0	J	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-58279-1

Client Sample ID: **Equip Blank (Mega Monsoon)**

Lab Sample ID: 680-58279-12EB Date Sampled: 06/02/2010 1800
Client Matrix: Water Date Received: 06/04/2010 1030

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-170853 Instrument ID: MSP
Preparation: 5030B Lab File ID: p0171.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/08/2010 1542 Final Weight/Volume: 5 mL
Date Prepared: 06/08/2010 1542

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	85		75 - 120
Dibromofluoromethane	97		75 - 121
Toluene-d8 (Surr)	100		75 - 120

Client: Ashland Inc. Job Number: 680-58279-1

Client Sample ID: **Equip Blank (PP)**

Lab Sample ID: 680-58279-13EB Date Sampled: 06/02/2010 1830
Client Matrix: Water Date Received: 06/04/2010 1030

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-170853		Instrument ID:	MSP
Preparation:	5030B			Lab File ID:	p0173.d
Dilution:	1.0			Initial Weight/Volume:	5 mL
Date Analyzed:	06/08/2010 1611			Final Weight/Volume:	5 mL
Date Prepared:	06/08/2010 1611				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	7.5	J	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	2.1	J	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	1.2	J	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-58279-1

Client Sample ID: **Equip Blank (PP)**

Lab Sample ID: 680-58279-13EB Date Sampled: 06/02/2010 1830
Client Matrix: Water Date Received: 06/04/2010 1030

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-170853	Instrument ID:	MSP
Preparation:	5030B		Lab File ID:	p0173.d
Dilution:	1.0		Initial Weight/Volume:	5 mL
Date Analyzed:	06/08/2010 1611		Final Weight/Volume:	5 mL
Date Prepared:	06/08/2010 1611			

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	84		75 - 120
Dibromofluoromethane	94		75 - 121
Toluene-d8 (Surr)	102		75 - 120

Client: Ashland Inc. Job Number: 680-58279-1

Client Sample ID: **Field Blank 1**

Lab Sample ID: 680-58279-14FB Date Sampled: 06/03/2010 1630
Client Matrix: Water Date Received: 06/04/2010 1030

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-171000 Instrument ID: MSA
Preparation: 5030B Lab File ID: a0011.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/09/2010 1435 Final Weight/Volume: 5 mL
Date Prepared: 06/09/2010 1435

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	12	J	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	2.1	J	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U *	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U *	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	1.5	J	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-58279-1

Client Sample ID: **Field Blank 1**

Lab Sample ID: 680-58279-14FB Date Sampled: 06/03/2010 1630
Client Matrix: Water Date Received: 06/04/2010 1030

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-171000 Instrument ID: MSA
Preparation: 5030B Lab File ID: a0011.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/09/2010 1435 Final Weight/Volume: 5 mL
Date Prepared: 06/09/2010 1435

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	105		75 - 120
Dibromofluoromethane	105		75 - 121
Toluene-d8 (Surr)	109		75 - 120

Client: Ashland Inc. Job Number: 680-58279-1

Client Sample ID: **Trip Blank Lot 051110**

Lab Sample ID: 680-58279-15TB Date Sampled: 06/03/2010 0000
Client Matrix: Water Date Received: 06/04/2010 1030

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-171000 Instrument ID: MSA
Preparation: 5030B Lab File ID: a0013.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/09/2010 1503 Final Weight/Volume: 5 mL
Date Prepared: 06/09/2010 1503

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U *	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U *	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-58279-1

Client Sample ID: **Trip Blank Lot 051110**

Lab Sample ID: 680-58279-15TB Date Sampled: 06/03/2010 0000
Client Matrix: Water Date Received: 06/04/2010 1030

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-171000	Instrument ID:	MSA
Preparation:	5030B		Lab File ID:	a0013.d
Dilution:	1.0		Initial Weight/Volume:	5 mL
Date Analyzed:	06/09/2010 1503		Final Weight/Volume:	5 mL
Date Prepared:	06/09/2010 1503			

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	103		75 - 120
Dibromofluoromethane	107		75 - 121
Toluene-d8 (Surr)	108		75 - 120

Client: Ashland Inc. Job Number: 680-58279-1

Client Sample ID: **MW-44S**

Lab Sample ID: 680-58279-16 Date Sampled: 06/03/2010 1400
Client Matrix: Water Date Received: 06/04/2010 1030

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-171185 Instrument ID: MSO
Preparation: 5030B Lab File ID: o0065.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/10/2010 1229 Final Weight/Volume: 5 mL
Date Prepared: 06/10/2010 1229

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	48		5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	0.48	J	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	3.9		0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-58279-1

Client Sample ID: **MW-44S**

Lab Sample ID: 680-58279-16 Date Sampled: 06/03/2010 1400
Client Matrix: Water Date Received: 06/04/2010 1030

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-171185		Instrument ID:	MSO
Preparation:	5030B			Lab File ID:	o0065.d
Dilution:	1.0			Initial Weight/Volume:	5 mL
Date Analyzed:	06/10/2010 1229			Final Weight/Volume:	5 mL
Date Prepared:	06/10/2010 1229				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	96		75 - 120
Dibromofluoromethane	102		75 - 121
Toluene-d8 (Surr)	106		75 - 120

Client: Ashland Inc. Job Number: 680-58279-1

Client Sample ID: **MW-1D**

Lab Sample ID: 680-58279-17 Date Sampled: 06/03/2010 0900
Client Matrix: Water Date Received: 06/04/2010 1030

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-171185 Instrument ID: MSO
Preparation: 5030B Lab File ID: o0070.d
Dilution: 2.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/10/2010 1413 Final Weight/Volume: 5 mL
Date Prepared: 06/10/2010 1413

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	39	J	10	50
Acetonitrile	80	U	20	80
Acrolein	40	U	15	40
Acrylonitrile	40	U	14	40
Benzene	210		0.50	2.0
Bromoform	2.0	U	1.0	2.0
Bromomethane	2.0	U	1.6	2.0
2-Butanone (MEK)	20	U	2.0	20
Carbon disulfide	4.0	U	1.2	4.0
Carbon tetrachloride	2.0	U	1.0	2.0
Chlorobenzene	230		0.50	2.0
2-Chloro-1,3-butadiene	2.0	U	0.60	2.0
Chlorodibromomethane	2.0	U	0.20	2.0
Chloroethane	2.0	U	2.0	2.0
Chloroform	2.0	U	0.28	2.0
Chloromethane	2.0	U	0.66	2.0
3-Chloro-1-propene	2.0	U	0.40	2.0
cis-1,3-Dichloropropene	2.0	U	0.22	2.0
1,2-Dibromo-3-Chloropropane	2.0	U	0.88	2.0
Dibromomethane	2.0	U	0.40	2.0
Dichlorobromomethane	2.0	U	0.50	2.0
Dichlorodifluoromethane	2.0	U	0.50	2.0
1,1-Dichloroethane	2.0	U	0.50	2.0
1,2-Dichloroethane	2.0	U	0.20	2.0
1,1-Dichloroethene	2.0	U	0.22	2.0
1,2-Dichloropropane	3.0		0.26	2.0
Ethylbenzene	150		0.22	2.0
Ethylene Dibromide	2.0	U	0.50	2.0
Ethyl methacrylate	2.0	U	0.50	2.0
2-Hexanone	20	U	2.0	20
Iodomethane	10	U	2.0	10
Isobutyl alcohol	80	U	22	80
Methacrylonitrile	40	U	6.6	40
Methylene Chloride	10	U	2.0	10
Methyl methacrylate	2.0	U	0.96	2.0
4-Methyl-2-pentanone (MIBK)	20	U	2.0	20
Pentachloroethane	10	U	2.4	10
Propionitrile	40	U	9.2	40
Styrene	2.0	U	0.22	2.0
1,1,1,2-Tetrachloroethane	2.0	U	0.66	2.0
1,1,2,2-Tetrachloroethane	2.0	U	0.36	2.0
Tetrachloroethene	2.0	U	0.30	2.0
Toluene	5.4		0.66	2.0
trans-1,4-Dichloro-2-butene	4.0	U	1.0	4.0
trans-1,2-Dichloroethene	2.0	U	0.40	2.0
trans-1,3-Dichloropropene	2.0	U	0.42	2.0

Client: Ashland Inc. Job Number: 680-58279-1

Client Sample ID: **MW-1D**

Lab Sample ID: 680-58279-17 Date Sampled: 06/03/2010 0900
Client Matrix: Water Date Received: 06/04/2010 1030

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-171185	Instrument ID:	MSO
Preparation:	5030B		Lab File ID:	o0070.d
Dilution:	2.0		Initial Weight/Volume:	5 mL
Date Analyzed:	06/10/2010 1413		Final Weight/Volume:	5 mL
Date Prepared:	06/10/2010 1413			

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	2.0	U	1.0	2.0
1,1,2-Trichloroethane	2.0	U	0.26	2.0
Trichloroethene	2.0	U	0.26	2.0
Trichlorofluoromethane	2.0	U	0.50	2.0
1,2,3-Trichloropropane	2.0	U	0.82	2.0
Vinyl acetate	4.0	U	0.56	4.0
Vinyl chloride	5.5		0.36	2.0
Xylenes, Total	300		0.40	4.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	104		75 - 120
Dibromofluoromethane	90		75 - 121
Toluene-d8 (Surr)	106		75 - 120

Client: Ashland Inc. Job Number: 680-58279-1

Client Sample ID: **MW44I**

Lab Sample ID: 680-58279-2 Date Sampled: 06/03/2010 1000
Client Matrix: Water Date Received: 06/04/2010 1030

8081A_8082 Organochlorine Pesticides & PCBs (GC)

Method:	8081A_8082	Analysis Batch: 680-171114		Instrument ID:	SGM
Preparation:	3520C	Prep Batch: 680-170727		Initial Weight/Volume:	1060 mL
Dilution:	1.0			Final Weight/Volume:	10 mL
Date Analyzed:	06/09/2010 2138			Injection Volume:	2 uL
Date Prepared:	06/07/2010 1421			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Total	1.4	J	0.47	4.7

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	20		14 - 115
Tetrachloro-m-xylene	39		35 - 120

Client: Ashland Inc. Job Number: 680-58279-1

Client Sample ID: **MW44ID**

Lab Sample ID: 680-58279-3 Date Sampled: 06/03/2010 1130
Client Matrix: Water Date Received: 06/04/2010 1030

8081A_8082 Organochlorine Pesticides & PCBs (GC)

Method:	8081A_8082	Analysis Batch: 680-171114		Instrument ID:	SGM
Preparation:	3520C	Prep Batch: 680-170727		Initial Weight/Volume:	1060 mL
Dilution:	1.0			Final Weight/Volume:	10 mL
Date Analyzed:	06/09/2010 2158			Injection Volume:	2 uL
Date Prepared:	06/07/2010 1421			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Total	5.0		0.47	4.7

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	24		14 - 115
Tetrachloro-m-xylene	44		35 - 120

Client: Ashland Inc. Job Number: 680-58279-1

Client Sample ID: **MW44D**

Lab Sample ID: 680-58279-4 Date Sampled: 06/03/2010 1400
Client Matrix: Water Date Received: 06/04/2010 1030

8081A_8082 Organochlorine Pesticides & PCBs (GC)

Method:	8081A_8082	Analysis Batch: 680-171114		Instrument ID:	SGM
Preparation:	3520C	Prep Batch: 680-170727		Initial Weight/Volume:	1050 mL
Dilution:	1.0			Final Weight/Volume:	10 mL
Date Analyzed:	06/09/2010 2217			Injection Volume:	2 uL
Date Prepared:	06/07/2010 1421			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Total	1.0	J	0.48	4.8

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	40		14 - 115
Tetrachloro-m-xylene	50		35 - 120

Client: Ashland Inc. Job Number: 680-58279-1

Client Sample ID: **MW25S**

Lab Sample ID: 680-58279-7 Date Sampled: 06/03/2010 0855
Client Matrix: Water Date Received: 06/04/2010 1030

8081A_8082 Organochlorine Pesticides & PCBs (GC)

Method:	8081A_8082	Analysis Batch: 680-171114		Instrument ID:	SGM
Preparation:	3520C	Prep Batch: 680-170727		Initial Weight/Volume:	1050 mL
Dilution:	1.0			Final Weight/Volume:	10 mL
Date Analyzed:	06/09/2010 2236			Injection Volume:	2 uL
Date Prepared:	06/07/2010 1421			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Total	1.1	J	0.48	4.8

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	14		14 - 115
Tetrachloro-m-xylene	52		35 - 120

Client: Ashland Inc. Job Number: 680-58279-1

Client Sample ID: **MW25D**

Lab Sample ID: 680-58279-8 Date Sampled: 06/03/2010 0930
Client Matrix: Water Date Received: 06/04/2010 1030

8081A_8082 Organochlorine Pesticides & PCBs (GC)

Method:	8081A_8082	Analysis Batch: 680-171114		Instrument ID:	SGM
Preparation:	3520C	Prep Batch: 680-170727		Initial Weight/Volume:	1060 mL
Dilution:	1.0			Final Weight/Volume:	10 mL
Date Analyzed:	06/09/2010 2256			Injection Volume:	2 uL
Date Prepared:	06/07/2010 1421			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Total	4.7	U	0.47	4.7

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	28		14 - 115
Tetrachloro-m-xylene	54		35 - 120

Client: Ashland Inc. Job Number: 680-58279-1

Client Sample ID: **Equip Blank (Mega Monsoon)**

Lab Sample ID: 680-58279-12EB Date Sampled: 06/02/2010 1800
Client Matrix: Water Date Received: 06/04/2010 1030

8081A_8082 Organochlorine Pesticides & PCBs (GC)

Method:	8081A_8082	Analysis Batch: 680-171114		Instrument ID:	SGM
Preparation:	3520C	Prep Batch: 680-170727		Initial Weight/Volume:	1060 mL
Dilution:	1.0			Final Weight/Volume:	10 mL
Date Analyzed:	06/09/2010 2315			Injection Volume:	2 uL
Date Prepared:	06/07/2010 1421			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Total	4.7	U	0.47	4.7

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	61		14 - 115
Tetrachloro-m-xylene	79		35 - 120

Client: Ashland Inc. Job Number: 680-58279-1

Client Sample ID: **Equip Blank (PP)**

Lab Sample ID: 680-58279-13EB Date Sampled: 06/02/2010 1830
Client Matrix: Water Date Received: 06/04/2010 1030

8081A_8082 Organochlorine Pesticides & PCBs (GC)

Method:	8081A_8082	Analysis Batch: 680-171114		Instrument ID:	SGM
Preparation:	3520C	Prep Batch: 680-170727		Initial Weight/Volume:	1030 mL
Dilution:	1.0			Final Weight/Volume:	10 mL
Date Analyzed:	06/09/2010 2335			Injection Volume:	2 uL
Date Prepared:	06/07/2010 1421			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Total	4.9	U	0.49	4.9

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	43		14 - 115
Tetrachloro-m-xylene	59		35 - 120

Client: Ashland Inc. Job Number: 680-58279-1

Client Sample ID: **MW-44S**

Lab Sample ID: 680-58279-16 Date Sampled: 06/03/2010 1400
Client Matrix: Water Date Received: 06/04/2010 1030

8081A_8082 Organochlorine Pesticides & PCBs (GC)

Method:	8081A_8082	Analysis Batch: 680-171114		Instrument ID:	SGM
Preparation:	3520C	Prep Batch: 680-170727		Initial Weight/Volume:	500 mL
Dilution:	1.0			Final Weight/Volume:	5 mL
Date Analyzed:	06/09/2010 2354			Injection Volume:	2 uL
Date Prepared:	06/07/2010 1421			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Total	5.0	U	0.50	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	34		14 - 115
Tetrachloro-m-xylene	62		35 - 120

Client: Ashland Inc. Job Number: 680-58279-1

Client Sample ID: **MW44I**

Lab Sample ID: 680-58279-2 Date Sampled: 06/03/2010 1000
Client Matrix: Water Date Received: 06/04/2010 1030

8081B/8082A Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Method:	8081B/8082A	Analysis Batch: 680-171118		Instrument ID:	SGM
Preparation:	3520C	Prep Batch: 680-170727		Initial Weight/Volume:	1060 mL
Dilution:	1.0			Final Weight/Volume:	10 mL
Date Analyzed:	06/09/2010 2138			Injection Volume:	2 uL
Date Prepared:	06/07/2010 1421			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Technical	4.7	U	0.47	4.7

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	20		14 - 115
Tetrachloro-m-xylene	39		35 - 120

Client: Ashland Inc. Job Number: 680-58279-1

Client Sample ID: **MW44ID**

Lab Sample ID: 680-58279-3 Date Sampled: 06/03/2010 1130
Client Matrix: Water Date Received: 06/04/2010 1030

8081B/8082A Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Method:	8081B/8082A	Analysis Batch: 680-171118		Instrument ID:	SGM
Preparation:	3520C	Prep Batch: 680-170727		Initial Weight/Volume:	1060 mL
Dilution:	1.0			Final Weight/Volume:	10 mL
Date Analyzed:	06/09/2010 2158			Injection Volume:	2 uL
Date Prepared:	06/07/2010 1421			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Technical	4.7	U	0.47	4.7

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	24		14 - 115
Tetrachloro-m-xylene	44		35 - 120

Client: Ashland Inc. Job Number: 680-58279-1

Client Sample ID: **MW44D**

Lab Sample ID: 680-58279-4 Date Sampled: 06/03/2010 1400
Client Matrix: Water Date Received: 06/04/2010 1030

8081B/8082A Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Method:	8081B/8082A	Analysis Batch: 680-171118		Instrument ID:	SGM
Preparation:	3520C	Prep Batch: 680-170727		Initial Weight/Volume:	1050 mL
Dilution:	1.0			Final Weight/Volume:	10 mL
Date Analyzed:	06/09/2010 2217			Injection Volume:	2 uL
Date Prepared:	06/07/2010 1421			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Technical	4.8	U	0.48	4.8

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	40		14 - 115
Tetrachloro-m-xylene	50		35 - 120

Client: Ashland Inc. Job Number: 680-58279-1

Client Sample ID: **MW25S**

Lab Sample ID: 680-58279-7 Date Sampled: 06/03/2010 0855
Client Matrix: Water Date Received: 06/04/2010 1030

8081B/8082A Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Method:	8081B/8082A	Analysis Batch: 680-171118		Instrument ID:	SGM
Preparation:	3520C	Prep Batch: 680-170727		Initial Weight/Volume:	1050 mL
Dilution:	1.0			Final Weight/Volume:	10 mL
Date Analyzed:	06/09/2010 2236			Injection Volume:	2 uL
Date Prepared:	06/07/2010 1421			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Technical	4.8	U	0.48	4.8

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	14		14 - 115
Tetrachloro-m-xylene	52		35 - 120

Client: Ashland Inc. Job Number: 680-58279-1

Client Sample ID: **MW25D**

Lab Sample ID: 680-58279-8 Date Sampled: 06/03/2010 0930
Client Matrix: Water Date Received: 06/04/2010 1030

8081B/8082A Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Method:	8081B/8082A	Analysis Batch: 680-171118		Instrument ID:	SGM
Preparation:	3520C	Prep Batch: 680-170727		Initial Weight/Volume:	1060 mL
Dilution:	1.0			Final Weight/Volume:	10 mL
Date Analyzed:	06/09/2010 2256			Injection Volume:	2 uL
Date Prepared:	06/07/2010 1421			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Technical	4.7	U	0.47	4.7

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	28		14 - 115
Tetrachloro-m-xylene	54		35 - 120

Client: Ashland Inc. Job Number: 680-58279-1

Client Sample ID: **Equip Blank (Mega Monsoon)**

Lab Sample ID: 680-58279-12EB Date Sampled: 06/02/2010 1800
Client Matrix: Water Date Received: 06/04/2010 1030

8081B/8082A Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Method:	8081B/8082A	Analysis Batch: 680-171118		Instrument ID:	SGM
Preparation:	3520C	Prep Batch: 680-170727		Initial Weight/Volume:	1060 mL
Dilution:	1.0			Final Weight/Volume:	10 mL
Date Analyzed:	06/09/2010 2315			Injection Volume:	2 uL
Date Prepared:	06/07/2010 1421			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Technical	4.7	U	0.47	4.7

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	61		14 - 115
Tetrachloro-m-xylene	79		35 - 120

Client: Ashland Inc. Job Number: 680-58279-1

Client Sample ID: **Equip Blank (PP)**

Lab Sample ID: 680-58279-13EB Date Sampled: 06/02/2010 1830
Client Matrix: Water Date Received: 06/04/2010 1030

8081B/8082A Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Method:	8081B/8082A	Analysis Batch: 680-171118		Instrument ID:	SGM
Preparation:	3520C	Prep Batch: 680-170727		Initial Weight/Volume:	1030 mL
Dilution:	1.0			Final Weight/Volume:	10 mL
Date Analyzed:	06/09/2010 2335			Injection Volume:	2 uL
Date Prepared:	06/07/2010 1421			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Technical	4.9	U	0.49	4.9

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	43		14 - 115
Tetrachloro-m-xylene	59		35 - 120

Client: Ashland Inc. Job Number: 680-58279-1

Client Sample ID: **MW-44S**

Lab Sample ID: 680-58279-16 Date Sampled: 06/03/2010 1400
Client Matrix: Water Date Received: 06/04/2010 1030

8081B/8082A Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Method:	8081B/8082A	Analysis Batch: 680-171118		Instrument ID:	SGM
Preparation:	3520C	Prep Batch: 680-170727		Initial Weight/Volume:	500 mL
Dilution:	1.0			Final Weight/Volume:	5 mL
Date Analyzed:	06/09/2010 2354			Injection Volume:	2 uL
Date Prepared:	06/07/2010 1421			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Technical	5.0	U	0.50	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	34		14 - 115
Tetrachloro-m-xylene	62		35 - 120

Client: Ashland Inc. Job Number: 680-58279-1

Client Sample ID: **MW44I**

Lab Sample ID: 680-58279-2 Date Sampled: 06/03/2010 1000
Client Matrix: Water Date Received: 06/04/2010 1030

6010B Metals (ICP)-Total Recoverable

Method:	6010B	Analysis Batch: 680-171623		Instrument ID:	ICPD
Preparation:	3005A	Prep Batch: 680-171282		Lab File ID:	061510.chr
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	06/15/2010 1720			Final Weight/Volume:	50 mL
Date Prepared:	06/11/2010 1157				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	20	U	5.2	20
Arsenic	20	U	10	20
Barium	140		2.0	10
Beryllium	4.0	U	0.10	4.0
Cadmium	5.0	U	2.0	5.0
Chromium	4.6	J	2.0	10
Cobalt	10	U	1.0	10
Copper	20	U	5.0	20
Lead	10	U	3.4	10
Nickel	40	U	4.0	40
Selenium	20	U	6.4	20
Silver	10	U	0.97	10
Thallium	25	U	8.7	25
Tin	50	U	5.4	50
Vanadium	3.5	J	3.0	10
Zinc	7.2	J	6.3	20

7470A Mercury (CVAA)

Method:	7470A	Analysis Batch: 680-171505		Instrument ID:	LEEMAN1
Preparation:	7470A	Prep Batch: 680-171421		Lab File ID:	b061410.chr
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	06/14/2010 1926			Final Weight/Volume:	50 mL
Date Prepared:	06/14/2010 1106				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.091	0.20

Client: Ashland Inc. Job Number: 680-58279-1

Client Sample ID: **MW44ID**

Lab Sample ID: 680-58279-3 Date Sampled: 06/03/2010 1130
Client Matrix: Water Date Received: 06/04/2010 1030

6010B Metals (ICP)-Total Recoverable

Method:	6010B	Analysis Batch: 680-171623		Instrument ID:	ICPD
Preparation:	3005A	Prep Batch: 680-171282		Lab File ID:	061510.chr
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	06/15/2010 1725			Final Weight/Volume:	50 mL
Date Prepared:	06/11/2010 1157				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	20	U	5.2	20
Arsenic	20	U	10	20
Barium	1800		2.0	10
Beryllium	4.0	U	0.10	4.0
Cadmium	5.0	U	2.0	5.0
Chromium	47		2.0	10
Cobalt	10	U	1.0	10
Copper	20	U	5.0	20
Lead	10	U	3.4	10
Nickel	40	U	4.0	40
Selenium	20	U	6.4	20
Silver	10	U	0.97	10
Thallium	25	U	8.7	25
Tin	50	U	5.4	50
Vanadium	10	U	3.0	10
Zinc	7.1	J	6.3	20

7470A Mercury (CVAA)

Method:	7470A	Analysis Batch: 680-171505		Instrument ID:	LEEMAN1
Preparation:	7470A	Prep Batch: 680-171421		Lab File ID:	b061410.chr
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	06/14/2010 1929			Final Weight/Volume:	50 mL
Date Prepared:	06/14/2010 1106				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.091	0.20

Client: Ashland Inc. Job Number: 680-58279-1

Client Sample ID: **MW44D**

Lab Sample ID: 680-58279-4 Date Sampled: 06/03/2010 1400
Client Matrix: Water Date Received: 06/04/2010 1030

6010B Metals (ICP)-Total Recoverable

Method:	6010B	Analysis Batch: 680-171623		Instrument ID:	ICPD
Preparation:	3005A	Prep Batch: 680-171282		Lab File ID:	061510.chr
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	06/15/2010 1740			Final Weight/Volume:	50 mL
Date Prepared:	06/11/2010 1157				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	20	U	5.2	20
Arsenic	20	U	10	20
Barium	33		2.0	10
Beryllium	4.0	U	0.10	4.0
Cadmium	5.0	U	2.0	5.0
Chromium	12		2.0	10
Cobalt	10	U	1.0	10
Copper	20	U	5.0	20
Lead	10	U	3.4	10
Nickel	6.0	J	4.0	40
Selenium	20	U	6.4	20
Silver	10	U	0.97	10
Thallium	25	U	8.7	25
Tin	50	U	5.4	50
Vanadium	10	U	3.0	10
Zinc	20	U	6.3	20

7470A Mercury (CVAA)

Method:	7470A	Analysis Batch: 680-171505		Instrument ID:	LEEMAN1
Preparation:	7470A	Prep Batch: 680-171421		Lab File ID:	b061410.chr
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	06/14/2010 1932			Final Weight/Volume:	50 mL
Date Prepared:	06/14/2010 1106				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.091	0.20

Client: Ashland Inc. Job Number: 680-58279-1

Client Sample ID: **Equip Blank (Mega Monsoon)**

Lab Sample ID: 680-58279-12EB Date Sampled: 06/02/2010 1800
Client Matrix: Water Date Received: 06/04/2010 1030

6010B Metals (ICP)-Total Recoverable

Method:	6010B	Analysis Batch: 680-171623		Instrument ID:	ICPD
Preparation:	3005A	Prep Batch: 680-171282		Lab File ID:	061510.chr
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	06/15/2010 1746			Final Weight/Volume:	50 mL
Date Prepared:	06/11/2010 1157				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	20	U	5.2	20
Arsenic	20	U	10	20
Barium	10	U	2.0	10
Beryllium	4.0	U	0.10	4.0
Cadmium	5.0	U	2.0	5.0
Chromium	10	U	2.0	10
Cobalt	10	U	1.0	10
Copper	20	U	5.0	20
Lead	10	U	3.4	10
Nickel	40	U	4.0	40
Selenium	20	U	6.4	20
Silver	10	U	0.97	10
Thallium	25	U	8.7	25
Tin	50	U	5.4	50
Vanadium	10	U	3.0	10
Zinc	20	U	6.3	20

7470A Mercury (CVAA)

Method:	7470A	Analysis Batch: 680-171505		Instrument ID:	LEEMAN1
Preparation:	7470A	Prep Batch: 680-171421		Lab File ID:	b061410.chr
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	06/14/2010 1940			Final Weight/Volume:	50 mL
Date Prepared:	06/14/2010 1106				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.091	0.20

Client: Ashland Inc. Job Number: 680-58279-1

Client Sample ID: **Equip Blank (PP)**

Lab Sample ID: 680-58279-13EB Date Sampled: 06/02/2010 1830
Client Matrix: Water Date Received: 06/04/2010 1030

6010B Metals (ICP)-Total Recoverable

Method:	6010B	Analysis Batch: 680-171623		Instrument ID:	ICPD
Preparation:	3005A	Prep Batch: 680-171282		Lab File ID:	061510.chr
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	06/15/2010 1751			Final Weight/Volume:	50 mL
Date Prepared:	06/11/2010 1157				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	20	U	5.2	20
Arsenic	20	U	10	20
Barium	10	U	2.0	10
Beryllium	4.0	U	0.10	4.0
Cadmium	5.0	U	2.0	5.0
Chromium	10	U	2.0	10
Cobalt	10	U	1.0	10
Copper	20	U	5.0	20
Lead	10	U	3.4	10
Nickel	40	U	4.0	40
Selenium	20	U	6.4	20
Silver	10	U	0.97	10
Thallium	25	U	8.7	25
Tin	50	U	5.4	50
Vanadium	10	U	3.0	10
Zinc	7.1	J	6.3	20

7470A Mercury (CVAA)

Method:	7470A	Analysis Batch: 680-171505		Instrument ID:	LEEMAN1
Preparation:	7470A	Prep Batch: 680-171421		Lab File ID:	b061410.chr
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	06/14/2010 1943			Final Weight/Volume:	50 mL
Date Prepared:	06/14/2010 1106				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.091	0.20

Client: Ashland Inc. Job Number: 680-58279-1

Client Sample ID: **MW-44S**

Lab Sample ID: 680-58279-16 Date Sampled: 06/03/2010 1400
Client Matrix: Water Date Received: 06/04/2010 1030

6010B Metals (ICP)-Total Recoverable

Method:	6010B	Analysis Batch: 680-171623		Instrument ID:	ICPD
Preparation:	3005A	Prep Batch: 680-171282		Lab File ID:	061510.chr
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	06/15/2010 1756			Final Weight/Volume:	50 mL
Date Prepared:	06/11/2010 1157				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	20	U	5.2	20
Arsenic	20	U	10	20
Barium	43		2.0	10
Beryllium	4.0	U	0.10	4.0
Cadmium	5.0	U	2.0	5.0
Chromium	9.5	J	2.0	10
Cobalt	10	U	1.0	10
Copper	20	U	5.0	20
Lead	10	U	3.4	10
Nickel	40	U	4.0	40
Selenium	20	U	6.4	20
Silver	10	U	0.97	10
Thallium	25	U	8.7	25
Tin	50	U	5.4	50
Vanadium	5.5	J	3.0	10
Zinc	20	U	6.3	20

7470A Mercury (CVAA)

Method:	7470A	Analysis Batch: 680-171505		Instrument ID:	LEEMAN1
Preparation:	7470A	Prep Batch: 680-171421		Lab File ID:	b061410.chr
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	06/14/2010 1946			Final Weight/Volume:	50 mL
Date Prepared:	06/14/2010 1106				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.091	0.20

DATA REPORTING QUALIFIERS

Client: Ashland Inc. Job Number: 680-58279-1

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	*	RPD of the LCS and LCSD exceeds the control limits
GC Semi VOA		
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Metals		
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

QUALITY CONTROL RESULTS

Client: Ashland Inc. Job Number: 680-58279-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:680-170853					
LCS 680-170853/6	Lab Control Sample	T	Water	8260B	
LCSD 680-170853/7	Lab Control Sample Duplicate	T	Water	8260B	
MB 680-170853/9	Method Blank	T	Water	8260B	
680-58279-12EB	Equip Blank (Mega Monsoon)	T	Water	8260B	
680-58279-13EB	Equip Blank (PP)	T	Water	8260B	
Analysis Batch:680-171000					
LCS 680-171000/4	Lab Control Sample	T	Water	8260B	
LCSD 680-171000/5	Lab Control Sample Duplicate	T	Water	8260B	
MB 680-171000/10	Method Blank	T	Water	8260B	
680-58279-2	MW44I	T	Water	8260B	
680-58279-14FB	Field Blank 1	T	Water	8260B	
680-58279-15TB	Trip Blank Lot 051110	T	Water	8260B	
Analysis Batch:680-171003					
LCS 680-171003/5	Lab Control Sample	T	Water	8260B	
LCSD 680-171003/6	Lab Control Sample Duplicate	T	Water	8260B	
MB 680-171003/8	Method Blank	T	Water	8260B	
680-58279-8	MW25D	T	Water	8260B	
680-58279-11	MW15S	T	Water	8260B	
Analysis Batch:680-171163					
LCS 680-171163/15	Lab Control Sample	T	Water	8260B	
LCSD 680-171163/16	Lab Control Sample Duplicate	T	Water	8260B	
MB 680-171163/18	Method Blank	T	Water	8260B	
680-58279-1	MW2D	T	Water	8260B	
680-58279-4	MW44D	T	Water	8260B	
680-58279-6	MW1S	T	Water	8260B	
Analysis Batch:680-171185					
LCS 680-171185/11	Lab Control Sample	T	Water	8260B	
LCSD 680-171185/12	Lab Control Sample Duplicate	T	Water	8260B	
MB 680-171185/14	Method Blank	T	Water	8260B	
680-58279-3	MW44ID	T	Water	8260B	
680-58279-5	MW2S	T	Water	8260B	
680-58279-7	MW25S	T	Water	8260B	
680-58279-9	MW14S	T	Water	8260B	
680-58279-10	MW14D	T	Water	8260B	
680-58279-16	MW-44S	T	Water	8260B	
680-58279-17	MW-1D	T	Water	8260B	

Report Basis
T = Total

Client: Ashland Inc. Job Number: 680-58279-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 680-170727					
LCS 680-170727/20-A	Lab Control Sample	T	Water	3520C	
MB 680-170727/15-A	Method Blank	T	Water	3520C	
680-58279-2	MW44I	T	Water	3520C	
680-58279-3	MW44ID	T	Water	3520C	
680-58279-4	MW44D	T	Water	3520C	
680-58279-7	MW25S	T	Water	3520C	
680-58279-8	MW25D	T	Water	3520C	
680-58279-12EB	Equip Blank (Mega Monsoon)	T	Water	3520C	
680-58279-13EB	Equip Blank (PP)	T	Water	3520C	
680-58279-16	MW-44S	T	Water	3520C	
Analysis Batch:680-171114					
LCS 680-170727/20-A	Lab Control Sample	T	Water	8081A_8082	680-170727
MB 680-170727/15-A	Method Blank	T	Water	8081A_8082	680-170727
680-58279-2	MW44I	T	Water	8081A_8082	680-170727
680-58279-3	MW44ID	T	Water	8081A_8082	680-170727
680-58279-4	MW44D	T	Water	8081A_8082	680-170727
680-58279-7	MW25S	T	Water	8081A_8082	680-170727
680-58279-8	MW25D	T	Water	8081A_8082	680-170727
680-58279-12EB	Equip Blank (Mega Monsoon)	T	Water	8081A_8082	680-170727
680-58279-13EB	Equip Blank (PP)	T	Water	8081A_8082	680-170727
680-58279-16	MW-44S	T	Water	8081A_8082	680-170727
Analysis Batch:680-171118					
LCS 680-170727/20-A	Lab Control Sample	T	Water	8081B/8082A	680-170727
MB 680-170727/15-A	Method Blank	T	Water	8081B/8082A	680-170727
680-58279-2	MW44I	T	Water	8081B/8082A	680-170727
680-58279-3	MW44ID	T	Water	8081B/8082A	680-170727
680-58279-4	MW44D	T	Water	8081B/8082A	680-170727
680-58279-7	MW25S	T	Water	8081B/8082A	680-170727
680-58279-8	MW25D	T	Water	8081B/8082A	680-170727
680-58279-12EB	Equip Blank (Mega Monsoon)	T	Water	8081B/8082A	680-170727
680-58279-13EB	Equip Blank (PP)	T	Water	8081B/8082A	680-170727
680-58279-16	MW-44S	T	Water	8081B/8082A	680-170727

Report Basis

T = Total

Client: Ashland Inc. Job Number: 680-58279-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 680-171282					
LCS 680-171282/22-A	Lab Control Sample	R	Water	3005A	
MB 680-171282/21-A	Method Blank	R	Water	3005A	
680-58279-2	MW44I	R	Water	3005A	
680-58279-3	MW44ID	R	Water	3005A	
680-58279-4	MW44D	R	Water	3005A	
680-58279-12EB	Equip Blank (Mega Monsoon)	R	Water	3005A	
680-58279-13EB	Equip Blank (PP)	R	Water	3005A	
680-58279-16	MW-44S	R	Water	3005A	
Prep Batch: 680-171421					
LCS 680-171421/24-A	Lab Control Sample	T	Water	7470A	
MB 680-171421/23-A	Method Blank	T	Water	7470A	
680-58279-2	MW44I	T	Water	7470A	
680-58279-3	MW44ID	T	Water	7470A	
680-58279-4	MW44D	T	Water	7470A	
680-58279-12EB	Equip Blank (Mega Monsoon)	T	Water	7470A	
680-58279-13EB	Equip Blank (PP)	T	Water	7470A	
680-58279-16	MW-44S	T	Water	7470A	
680-58279-16MS	Matrix Spike	T	Water	7470A	
680-58279-16MSD	Matrix Spike Duplicate	T	Water	7470A	
Analysis Batch:680-171505					
LCS 680-171421/24-A	Lab Control Sample	T	Water	7470A	680-171421
MB 680-171421/23-A	Method Blank	T	Water	7470A	680-171421
680-58279-2	MW44I	T	Water	7470A	680-171421
680-58279-3	MW44ID	T	Water	7470A	680-171421
680-58279-4	MW44D	T	Water	7470A	680-171421
680-58279-12EB	Equip Blank (Mega Monsoon)	T	Water	7470A	680-171421
680-58279-13EB	Equip Blank (PP)	T	Water	7470A	680-171421
680-58279-16	MW-44S	T	Water	7470A	680-171421
680-58279-16MS	Matrix Spike	T	Water	7470A	680-171421
680-58279-16MSD	Matrix Spike Duplicate	T	Water	7470A	680-171421
Analysis Batch:680-171623					
LCS 680-171282/22-A	Lab Control Sample	R	Water	6010B	680-171282
MB 680-171282/21-A	Method Blank	R	Water	6010B	680-171282
680-58279-2	MW44I	R	Water	6010B	680-171282
680-58279-3	MW44ID	R	Water	6010B	680-171282
680-58279-4	MW44D	R	Water	6010B	680-171282
680-58279-12EB	Equip Blank (Mega Monsoon)	R	Water	6010B	680-171282
680-58279-13EB	Equip Blank (PP)	R	Water	6010B	680-171282
680-58279-16	MW-44S	R	Water	6010B	680-171282

Client: Ashland Inc. Job Number: 680-58279-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch

Report Basis
R = Total Recoverable
T = Total

Client: Ashland Inc. Job Number: 680-58279-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

L5i eS5: pu e7D	Client Wam4le IB	BFB %Rec	DBFM %Rec	TOL %Rec
680-58279-1	MW2D	99	92	105
680-58279-2	MW44I	109	106	109
680-58279-3	MW44ID	103	95	105
680-58279-4	MW44D	99	86	107
680-58279-5	MW2S	100	93	106
680-58279-6	MW1S	97	98	104
680-58279-7	MW25S	101	99	107
680-58279-8	MW25D	95	94	109
680-58279-9	MW14S	95	100	106
680-58279-10	MW14D	96	97	104
680-58279-11	MW15S	96	97	106
680-58279-12	Equip Blank (Mega Monsoon)	85	97	100
680-58279-13	Equip Blank (PP)	84	94	102
680-58279-14	Field Blank 1	105	105	109
680-58279-15	Trip Blank Lot 051110	103	107	108
680-58279-16	MW-44S	96	102	106
680-58279-17	MW-1D	104	90	106
MB 680-170853/9		86	99	98
MB 680-171000/10		108	100	113
MB 680-171003/8		94	91	107
MB 680-171163/18		96	99	106
MB 680-171185/14		94	98	105
LCS 680-170853/6		92	107	102
LCS 680-171000/4		113	111	108
LCS 680-171003/5		107	100	108
LCS 680-171163/15		99	99	102
LCS 680-171185/11		97	97	102
LCSD 680-170853/7		92	105	99
LCSD 680-171000/5		110	114	110

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene	75-120
DBFM = Dibromofluoromethane	75-121
TOL = Toluene-d8 (Surr)	75-120

Client: Ashland Inc. Job Number: 680-58279-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

L5i eS5: pu e7D	Client Wam4le IB	BFB %Rec	DBFM %Rec	TOL %Rec
LCSD 680-171003/6		107	103	107
LCSD 680-171163/16		99	97	102
LCSD 680-171185/12		95	94	101

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene	75-120
DBFM = Dibromofluoromethane	75-121
TOL = Toluene-d8 (Surr)	75-120

Client: Ashland Inc.

Job Number: 680-58279-1

Surrogate Recovery Report

8081A_8082_Organochlorine Pesticides & PCBs (GC)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCB1 %Rec	TCX1 %Rec
680-58279-2	MW44I	20	39
680-58279-3	MW44ID	24	44
680-58279-4	MW44D	40	50
680-58279-7	MW25S	14	52
680-58279-8	MW25D	28	54
680-58279-12	Equip Blank (Mega Monsoon)	61	79
680-58279-13	Equip Blank (PP)	43	59
680-58279-16	MW-44S	34	62
MB 680-170727/15-A		72	71
LCS 680-170727/20-A		73	68

Surrogate	Acceptance Limits
DCB = DCB Decachlorobiphenyl	14-115
TCX = Tetrachloro-m-xylene	35-120

Client: Ashland Inc. Job Number: 680-58279-1

Surrogate Recovery Report

8081B/8082A Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Client Matrix: Water

L5i eS5: pu e7D	Client Wam4le IB	WCB1 %Rec	TCX1 %Rec
680-58279-2	MW44I	20	39
680-58279-3	MW44ID	24	44
680-58279-4	MW44D	40	50
680-58279-7	MW25S	14	52
680-58279-8	MW25D	28	54
680-58279-12	Equip Blank (Mega Monsoon)	61	79
680-58279-13	Equip Blank (PP)	43	59
680-58279-16	MW-44S	34	62
MB 680-170727/15-A		64	82
LCS 680-170727/20-A		73	68

Surrogate	Acceptance Limits
DCB = DCB Decachlorobiphenyl	14-115
TCX = Tetrachloro-m-xylene	35-120

Client: Ashland Inc. Job Number: 680-58279-1

Method Blank - Batch: 680-170853

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-170853/9
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/08/2010 1211
Date Prepared: 06/08/2010 1211

Analysis Batch: 680-170853
Prep Batch: N/A
Units: ug/L

Instrument ID: MSP
Lab File ID: pq119.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0

Client: Ashland Inc.

Job Number: 680-58279-1

Method Blank - Batch: 680-170853

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-170853/9
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/08/2010 1211
Date Prepared: 06/08/2010 1211

Analysis Batch: 680-170853
Prep Batch: N/A
Units: ug/L

Instrument ID: MSP
Lab File ID: pq119.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	86	75 - 120
Dibromofluoromethane	99	75 - 121
Toluene-d8 (Surr)	98	75 - 120

Client: Ashland Inc. Job Number: 680-58279-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-170853

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-170853/6	Analysis Batch:	680-170853	Instrument ID:	MSP
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	pq111.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/08/2010 1013			Final Weight/Volume:	5 mL
Date Prepared:	06/08/2010 1013				

LCSD Lab Sample ID:	LCSD 680-170853/7	Analysis Batch:	680-170853	Instrument ID:	MSP
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	pq113.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/08/2010 1042			Final Weight/Volume:	5 mL
Date Prepared:	06/08/2010 1042				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	94	100	17 - 175	6	50		
Benzene	101	100	77 - 119	1	30		
Bromoform	98	95	62 - 133	2	30		
Bromomethane	121	132	12 - 184	8	50		
2-Butanone (MEK)	96	91	33 - 157	6	30		
Carbon disulfide	123	127	55 - 131	4	30		
Carbon tetrachloride	104	101	71 - 135	3	30		
Chlorobenzene	99	97	85 - 116	2	30		
Chlorodibromomethane	96	95	75 - 133	1	30		
Chloroethane	98	115	40 - 165	16	50		
Chloroform	115	116	82 - 120	1	30		
Chloromethane	139	137	48 - 142	1	50		
cis-1,3-Dichloropropene	105	105	76 - 126	0	30		
1,2-Dibromo-3-Chloropropane	89	82	49 - 140	8	30		
Dibromomethane	95	93	78 - 119	2	30		
Dichlorobromomethane	105	101	78 - 127	3	30		
Dichlorodifluoromethane	137	137	34 - 154	0	30		
1,1-Dichloroethane	104	104	74 - 127	0	30		
1,2-Dichloroethane	97	92	66 - 132	5	30		
1,1-Dichloroethene	104	105	62 - 141	1	30		
1,2-Dichloropropane	99	97	73 - 124	3	30		
Ethylbenzene	97	99	86 - 116	2	30		
Ethylene Dibromide	97	93	80 - 121	4	30		
2-Hexanone	91	91	34 - 161	0	30		
Methylene Chloride	107	107	70 - 125	0	30		
4-Methyl-2-pentanone (MIBK)	94	91	40 - 151	3	30		
Styrene	100	99	82 - 122	1	30		
1,1,1,2-Tetrachloroethane	93	92	81 - 128	1	30		
1,1,2,2-Tetrachloroethane	84	80	69 - 129	6	30		
Tetrachloroethene	96	94	76 - 126	2	30		
Toluene	100	99	81 - 117	1	30		
trans-1,2-Dichloroethene	103	102	72 - 131	1	30		
trans-1,3-Dichloropropene	101	98	73 - 128	3	30		
1,1,1-Trichloroethane	99	99	76 - 127	0	30		

Client: Ashland Inc. Job Number: 680-58279-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-170853

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-170853/6	Analysis Batch:	680-170853	Instrument ID:	MSP
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	pq111.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/08/2010 1013			Final Weight/Volume:	5 mL
Date Prepared:	06/08/2010 1013				

LCSD Lab Sample ID:	LCSD 680-170853/7	Analysis Batch:	680-170853	Instrument ID:	MSP
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	pq113.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/08/2010 1042			Final Weight/Volume:	5 mL
Date Prepared:	06/08/2010 1042				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,1,2-Trichloroethane	95	96	75 - 121	1	30		
Trichloroethene	105	103	84 - 115	2	30		
Trichlorofluoromethane	118	125	58 - 149	6	50		
1,2,3-Trichloropropane	92	85	70 - 130	7	30		
Vinyl acetate	155	155	10 - 217	0	30		
Vinyl chloride	139	139	59 - 144	0	50		
Xylenes, Total	98	98	84 - 118	0	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	92	92	75 - 120
Dibromofluoromethane	107	105	75 - 121
Toluene-d8 (Surr)	102	99	75 - 120

Client: Ashland Inc. Job Number: 680-58279-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 680-170853

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-170853/6	Units:	ug/L	LCSD Lab Sample ID:	LCSD 680-170853/7
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Date Analyzed:	06/08/2010 1013			Date Analyzed:	06/08/2010 1042
Date Prepared:	06/08/2010 1013			Date Prepared:	06/08/2010 1042

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Acetone	100	100	94.1	99.9
Benzene	50.0	50.0	50.6	50.2
Bromoform	50.0	50.0	48.8	47.7
Bromomethane	50.0	50.0	60.7	66.1
2-Butanone (MEK)	100	100	96.4	91.0
Carbon disulfide	50.0	50.0	61.3	63.5
Carbon tetrachloride	50.0	50.0	52.0	50.5
Chlorobenzene	50.0	50.0	49.6	48.5
Chlorodibromomethane	50.0	50.0	48.0	47.7
Chloroethane	50.0	50.0	48.9	57.3
Chloroform	50.0	50.0	57.7	58.2
Chloromethane	50.0	50.0	69.4	68.7
cis-1,3-Dichloropropene	50.0	50.0	52.5	52.4
1,2-Dibromo-3-Chloropropane	50.0	50.0	44.5	40.9
Dibromomethane	50.0	50.0	47.5	46.4
Dichlorobromomethane	50.0	50.0	52.4	50.7
Dichlorodifluoromethane	50.0	50.0	68.7	68.6
1,1-Dichloroethane	50.0	50.0	52.1	51.9
1,2-Dichloroethane	50.0	50.0	48.4	46.2
1,1-Dichloroethene	50.0	50.0	51.9	52.3
1,2-Dichloropropane	50.0	50.0	49.5	48.3
Ethylbenzene	50.0	50.0	48.6	49.5
Ethylene Dibromide	50.0	50.0	48.4	46.7
2-Hexanone	100	100	91.1	91.4
Methylene Chloride	50.0	50.0	53.7	53.7
4-Methyl-2-pentanone (MIBK)	100	100	93.7	91.3
Styrene	50.0	50.0	50.0	49.6
1,1,1,2-Tetrachloroethane	50.0	50.0	46.5	46.1
1,1,2,2-Tetrachloroethane	50.0	50.0	42.2	39.8
Tetrachloroethene	50.0	50.0	48.2	47.1
Toluene	50.0	50.0	50.1	49.7
trans-1,2-Dichloroethene	50.0	50.0	51.3	50.9
trans-1,3-Dichloropropene	50.0	50.0	50.5	49.1
1,1,1-Trichloroethane	50.0	50.0	49.5	49.5
1,1,2-Trichloroethane	50.0	50.0	47.4	47.9
Trichloroethene	50.0	50.0	52.6	51.5
Trichlorofluoromethane	50.0	50.0	59.0	62.6
1,2,3-Trichloropropane	50.0	50.0	45.8	42.6
Vinyl acetate	100	100	155	155
Vinyl chloride	50.0	50.0	69.4	69.6
Xylenes, Total	150	150	147	146

Client: Ashland Inc. Job Number: 680-58279-1

Method Blank - Batch: 680-171000

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-171000/10
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/09/2010 1147
Date Prepared: 06/09/2010 1147

Analysis Batch: 680-171000
Prep Batch: N/A
Units: ug/L

Instrument ID: MSA
Lab File ID: aq045.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0

Client: Ashland Inc.

Job Number: 680-58279-1

Method Blank - Batch: 680-171000

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-171000/10
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/09/2010 1147
Date Prepared: 06/09/2010 1147

Analysis Batch: 680-171000
Prep Batch: N/A
Units: ug/L

Instrument ID: MSA
Lab File ID: aq045.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	108	75 - 120
Dibromofluoromethane	100	75 - 121
Toluene-d8 (Surr)	113	75 - 120

Client: Ashland Inc. Job Number: 680-58279-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-171000

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 680-171000/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/09/2010 0928
Date Prepared: 06/09/2010 0928

Analysis Batch: 680-171000
Prep Batch: N/A
Units: ug/L

Instrument ID: MSA
Lab File ID: aq039.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

LCSD Lab Sample ID: LCSD 680-171000/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/09/2010 1023
Date Prepared: 06/09/2010 1023

Analysis Batch: 680-171000
Prep Batch: N/A
Units: ug/L

Instrument ID: MSA
Lab File ID: aq041.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	98	112	17 - 175	13	50		
Benzene	107	109	77 - 119	1	30		
Bromoform	112	103	62 - 133	8	30		
Bromomethane	77	114	12 - 184	38	50		
2-Butanone (MEK)	97	98	33 - 157	1	30		
Carbon disulfide	98	113	55 - 131	14	30		
Carbon tetrachloride	106	108	71 - 135	1	30		
Chlorobenzene	110	109	85 - 116	1	30		
Chlorodibromomethane	107	102	75 - 133	5	30		
Chloroethane	57	115	40 - 165	68	50		*
Chloroform	111	112	82 - 120	1	30		
Chloromethane	102	118	48 - 142	15	50		
cis-1,3-Dichloropropene	99	97	76 - 126	2	30		
1,2-Dibromo-3-Chloropropane	107	102	49 - 140	5	30		
Dibromomethane	108	107	78 - 119	2	30		
Dichlorobromomethane	96	97	78 - 127	1	30		
Dichlorodifluoromethane	55	120	34 - 154	75	30		*
1,1-Dichloroethane	91	100	74 - 127	10	30		
1,2-Dichloroethane	101	100	66 - 132	1	30		
1,1-Dichloroethene	99	114	62 - 141	14	30		
1,2-Dichloropropane	107	109	73 - 124	2	30		
Ethylbenzene	100	101	86 - 116	1	30		
Ethylene Dibromide	109	107	80 - 121	1	30		
2-Hexanone	112	101	34 - 161	10	30		
Methylene Chloride	90	107	70 - 125	18	30		
4-Methyl-2-pentanone (MIBK)	107	102	40 - 151	5	30		
Styrene	108	109	82 - 122	1	30		
1,1,1,2-Tetrachloroethane	106	103	81 - 128	3	30		
1,1,2,2-Tetrachloroethane	111	102	69 - 129	9	30		
Tetrachloroethene	103	102	76 - 126	1	30		
Toluene	104	105	81 - 117	1	30		
trans-1,2-Dichloroethene	100	102	72 - 131	2	30		
trans-1,3-Dichloropropene	106	104	73 - 128	2	30		
1,1,1-Trichloroethane	99	101	76 - 127	2	30		

Client: Ashland Inc. Job Number: 680-58279-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-171000

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-171000/4	Analysis Batch:	680-171000	Instrument ID:	MSA
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	aq039.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/09/2010 0928			Final Weight/Volume:	5 mL
Date Prepared:	06/09/2010 0928				

LCSD Lab Sample ID:	LCSD 680-171000/5	Analysis Batch:	680-171000	Instrument ID:	MSA
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	aq041.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/09/2010 1023			Final Weight/Volume:	5 mL
Date Prepared:	06/09/2010 1023				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,1,2-Trichloroethane	106	105	75 - 121	1	30		
Trichloroethene	99	99	84 - 115	0	30		
Trichlorofluoromethane	104	131	58 - 149	23	50		
1,2,3-Trichloropropane	111	102	70 - 130	8	30		
Vinyl acetate	120	115	10 - 217	4	30		
Vinyl chloride	82	122	59 - 144	39	50		
Xylenes, Total	107	108	84 - 118	1	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	113	110	75 - 120
Dibromofluoromethane	111	114	75 - 121
Toluene-d8 (Surr)	108	110	75 - 120

Client: Ashland Inc. Job Number: 680-58279-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 680-171000

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-171000/4	Units:	ug/L	LCSD Lab Sample ID:	LCSD 680-171000/5
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Date Analyzed:	06/09/2010 0928			Date Analyzed:	06/09/2010 1023
Date Prepared:	06/09/2010 0928			Date Prepared:	06/09/2010 1023

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual	
Acetone	100	100	98.0	112	
Benzene	50.0	50.0	53.7	54.4	
Bromoform	50.0	50.0	55.8	51.5	
Bromomethane	50.0	50.0	38.7	56.9	
2-Butanone (MEK)	100	100	97.4	98.0	
Carbon disulfide	50.0	50.0	49.1	56.5	
Carbon tetrachloride	50.0	50.0	53.2	53.8	
Chlorobenzene	50.0	50.0	55.2	54.5	
Chlorodibromomethane	50.0	50.0	53.4	50.9	
Chloroethane	50.0	50.0	28.4	57.4	*
Chloroform	50.0	50.0	55.4	56.1	
Chloromethane	50.0	50.0	50.9	59.1	
cis-1,3-Dichloropropene	50.0	50.0	49.5	48.5	
1,2-Dibromo-3-Chloropropane	50.0	50.0	53.4	50.9	
Dibromomethane	50.0	50.0	54.2	53.4	
Dichlorobromomethane	50.0	50.0	48.1	48.4	
Dichlorodifluoromethane	50.0	50.0	27.4	60.0	*
1,1-Dichloroethane	50.0	50.0	45.4	50.2	
1,2-Dichloroethane	50.0	50.0	50.5	50.0	
1,1-Dichloroethene	50.0	50.0	49.6	57.2	
1,2-Dichloropropane	50.0	50.0	53.4	54.3	
Ethylbenzene	50.0	50.0	50.0	50.6	
Ethylene Dibromide	50.0	50.0	54.5	53.7	
2-Hexanone	100	100	112	101	
Methylene Chloride	50.0	50.0	44.8	53.5	
4-Methyl-2-pentanone (MIBK)	100	100	107	102	
Styrene	50.0	50.0	54.2	54.7	
1,1,1,2-Tetrachloroethane	50.0	50.0	53.0	51.4	
1,1,2,2-Tetrachloroethane	50.0	50.0	55.6	50.8	
Tetrachloroethene	50.0	50.0	51.5	51.0	
Toluene	50.0	50.0	51.8	52.6	
trans-1,2-Dichloroethene	50.0	50.0	50.0	51.2	
trans-1,3-Dichloropropene	50.0	50.0	53.0	52.1	
1,1,1-Trichloroethane	50.0	50.0	49.4	50.3	
1,1,2-Trichloroethane	50.0	50.0	52.9	52.4	
Trichloroethene	50.0	50.0	49.6	49.6	
Trichlorofluoromethane	50.0	50.0	52.1	65.5	
1,2,3-Trichloropropane	50.0	50.0	55.4	50.9	
Vinyl acetate	100	100	120	115	
Vinyl chloride	50.0	50.0	41.1	61.0	
Xylenes, Total	150	150	160	161	

Client: Ashland Inc. Job Number: 680-58279-1

Method Blank - Batch: 680-171003

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-171003/8
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/09/2010 1201
Date Prepared: 06/09/2010 1201

Analysis Batch: 680-171003
Prep Batch: N/A
Units: ug/L

Instrument ID: MSA2
Lab File ID: aq046.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0

Client: Ashland Inc.

Job Number: 680-58279-1

Method Blank - Batch: 680-171003

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-171003/8
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/09/2010 1201
Date Prepared: 06/09/2010 1201

Analysis Batch: 680-171003
Prep Batch: N/A
Units: ug/L

Instrument ID: MSA2
Lab File ID: aq046.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	94	75 - 120
Dibromofluoromethane	91	75 - 121
Toluene-d8 (Surr)	107	75 - 120

Client: Ashland Inc. Job Number: 680-58279-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-171003

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 680-171003/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/09/2010 0942
Date Prepared: 06/09/2010 0942

Analysis Batch: 680-171003
Prep Batch: N/A
Units: ug/L

Instrument ID: MSA2
Lab File ID: aq040.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

LCSD Lab Sample ID: LCSD 680-171003/6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/09/2010 1037
Date Prepared: 06/09/2010 1037

Analysis Batch: 680-171003
Prep Batch: N/A
Units: ug/L

Instrument ID: MSA2
Lab File ID: aq042.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	90	78	17 - 175	14	50		
Benzene	95	98	77 - 119	3	30		
Bromoform	109	102	62 - 133	6	30		
Bromomethane	132	112	12 - 184	17	50		
2-Butanone (MEK)	96	91	33 - 157	6	30		
Carbon disulfide	86	89	55 - 131	3	30		
Carbon tetrachloride	93	95	71 - 135	2	30		
Chlorobenzene	109	112	85 - 116	2	30		
Chlorodibromomethane	97	98	75 - 133	1	30		
Chloroethane	105	102	40 - 165	3	50		
Chloroform	98	103	82 - 120	6	30		
Chloromethane	108	117	48 - 142	8	50		
cis-1,3-Dichloropropene	101	98	76 - 126	2	30		
1,2-Dibromo-3-Chloropropane	98	88	49 - 140	11	30		
Dibromomethane	105	101	78 - 119	4	30		
Dichlorobromomethane	99	98	78 - 127	1	30		
Dichlorodifluoromethane	98	108	34 - 154	10	30		
1,1-Dichloroethane	95	99	74 - 127	4	30		
1,2-Dichloroethane	100	98	66 - 132	2	30		
1,1-Dichloroethene	87	94	62 - 141	8	30		
1,2-Dichloropropane	106	104	73 - 124	2	30		
Ethylbenzene	97	101	86 - 116	3	30		
Ethylene Dibromide	107	100	80 - 121	6	30		
2-Hexanone	99	95	34 - 161	5	30		
Methylene Chloride	89	89	70 - 125	0	30		
4-Methyl-2-pentanone (MIBK)	103	92	40 - 151	11	30		
Styrene	109	110	82 - 122	1	30		
1,1,1,2-Tetrachloroethane	94	95	81 - 128	1	30		
1,1,2,2-Tetrachloroethane	108	101	69 - 129	6	30		
Tetrachloroethene	101	103	76 - 126	3	30		
Toluene	107	104	81 - 117	3	30		
trans-1,2-Dichloroethene	87	74	72 - 131	16	30		
trans-1,3-Dichloropropene	98	95	73 - 128	3	30		
1,1,1-Trichloroethane	98	101	76 - 127	3	30		

Client: Ashland Inc. Job Number: 680-58279-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-171003

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-171003/5	Analysis Batch:	680-171003	Instrument ID:	MSA2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	aq040.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/09/2010 0942			Final Weight/Volume:	5 mL
Date Prepared:	06/09/2010 0942				

LCSD Lab Sample ID:	LCSD 680-171003/6	Analysis Batch:	680-171003	Instrument ID:	MSA2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	aq042.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/09/2010 1037			Final Weight/Volume:	5 mL
Date Prepared:	06/09/2010 1037				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,1,2-Trichloroethane	100	98	75 - 121	2	30		
Trichloroethene	102	103	84 - 115	1	30		
Trichlorofluoromethane	104	110	58 - 149	6	50		
1,2,3-Trichloropropane	105	97	70 - 130	9	30		
Vinyl acetate	110	107	10 - 217	3	30		
Vinyl chloride	103	107	59 - 144	4	50		
Xylenes, Total	99	100	84 - 118	1	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	107	107	75 - 120
Dibromofluoromethane	100	103	75 - 121
Toluene-d8 (Surr)	108	107	75 - 120

Client: Ashland Inc. Job Number: 680-58279-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 680-171003

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-171003/5	Units:	ug/L	LCSD Lab Sample ID:	LCSD 680-171003/6
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Date Analyzed:	06/09/2010 0942			Date Analyzed:	06/09/2010 1037
Date Prepared:	06/09/2010 0942			Date Prepared:	06/09/2010 1037

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Acetone	100	100	89.9	78.4
Benzene	50.0	50.0	47.5	48.8
Bromoform	50.0	50.0	54.3	51.0
Bromomethane	50.0	50.0	66.0	55.8
2-Butanone (MEK)	100	100	96.1	90.7
Carbon disulfide	50.0	50.0	42.8	44.3
Carbon tetrachloride	50.0	50.0	46.3	47.4
Chlorobenzene	50.0	50.0	54.7	55.8
Chlorodibromomethane	50.0	50.0	48.3	49.0
Chloroethane	50.0	50.0	52.5	50.8
Chloroform	50.0	50.0	48.8	51.6
Chloromethane	50.0	50.0	54.1	58.5
cis-1,3-Dichloropropene	50.0	50.0	50.3	49.2
1,2-Dibromo-3-Chloropropane	50.0	50.0	49.1	43.8
Dibromomethane	50.0	50.0	52.3	50.4
Dichlorobromomethane	50.0	50.0	49.6	49.1
Dichlorodifluoromethane	50.0	50.0	48.9	54.2
1,1-Dichloroethane	50.0	50.0	47.7	49.4
1,2-Dichloroethane	50.0	50.0	49.9	48.9
1,1-Dichloroethene	50.0	50.0	43.3	46.8
1,2-Dichloropropane	50.0	50.0	53.2	51.9
Ethylbenzene	50.0	50.0	48.7	50.3
Ethylene Dibromide	50.0	50.0	53.3	50.1
2-Hexanone	100	100	99.4	94.6
Methylene Chloride	50.0	50.0	44.5	44.4
4-Methyl-2-pentanone (MIBK)	100	100	103	92.0
Styrene	50.0	50.0	54.7	55.0
1,1,1,2-Tetrachloroethane	50.0	50.0	46.8	47.5
1,1,2,2-Tetrachloroethane	50.0	50.0	54.0	50.7
Tetrachloroethene	50.0	50.0	50.3	51.6
Toluene	50.0	50.0	53.5	51.8
trans-1,2-Dichloroethene	50.0	50.0	43.3	36.9
trans-1,3-Dichloropropene	50.0	50.0	48.8	47.6
1,1,1-Trichloroethane	50.0	50.0	49.0	50.7
1,1,2-Trichloroethane	50.0	50.0	50.2	49.2
Trichloroethene	50.0	50.0	51.2	51.6
Trichlorofluoromethane	50.0	50.0	51.8	54.9
1,2,3-Trichloropropane	50.0	50.0	52.7	48.4
Vinyl acetate	100	100	110	107
Vinyl chloride	50.0	50.0	51.7	53.6
Xylenes, Total	150	150	148	151

Client: Ashland Inc.

Job Number: 680-58279-1

Client: Ashland Inc. Job Number: 680-58279-1

Method Blank - Batch: 680-171163

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-171163/18
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/09/2010 2133
Date Prepared: 06/09/2010 2133

Analysis Batch: 680-171163
Prep Batch: N/A
Units: ug/L

Instrument ID: MSO
Lab File ID: oq291.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0

Client: Ashland Inc. Job Number: 680-58279-1

Method Blank - Batch: 680-171163

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-171163/18
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/09/2010 2133
Date Prepared: 06/09/2010 2133

Analysis Batch: 680-171163
Prep Batch: N/A
Units: ug/L

Instrument ID: MSO
Lab File ID: oq291.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	96	75 - 120
Dibromofluoromethane	99	75 - 121
Toluene-d8 (Surr)	106	75 - 120

Client: Ashland Inc. Job Number: 680-58279-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-171163

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-171163/15	Analysis Batch:	680-171163	Instrument ID:	MSO
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	oq287.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/09/2010 2009			Final Weight/Volume:	5 mL
Date Prepared:	06/09/2010 2009				

LCSD Lab Sample ID:	LCSD 680-171163/16	Analysis Batch:	680-171163	Instrument ID:	MSO
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	oq288.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/09/2010 2030			Final Weight/Volume:	5 mL
Date Prepared:	06/09/2010 2030				

	% Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	133	131	17 - 175	2	50		
Benzene	99	100	77 - 119	1	30		
Bromoform	103	104	62 - 133	1	30		
Bromomethane	70	71	12 - 184	2	50		
2-Butanone (MEK)	114	109	33 - 157	5	30		
Carbon disulfide	88	86	55 - 131	2	30		
Carbon tetrachloride	107	109	71 - 135	2	30		
Chlorobenzene	94	93	85 - 116	1	30		
Chlorodibromomethane	83	83	75 - 133	1	30		
Chloroethane	104	98	40 - 165	6	50		
Chloroform	92	91	82 - 120	2	30		
Chloromethane	86	84	48 - 142	2	50		
cis-1,3-Dichloropropene	99	99	76 - 126	1	30		
1,2-Dibromo-3-Chloropropane	100	99	49 - 140	0	30		
Dibromomethane	102	101	78 - 119	1	30		
Dichlorobromomethane	97	100	78 - 127	3	30		
Dichlorodifluoromethane	91	90	34 - 154	1	30		
1,1-Dichloroethane	104	101	74 - 127	4	30		
1,2-Dichloroethane	102	103	66 - 132	1	30		
1,1-Dichloroethene	104	101	62 - 141	3	30		
1,2-Dichloropropane	99	100	73 - 124	1	30		
Ethylbenzene	99	97	86 - 116	2	30		
Ethylene Dibromide	97	98	80 - 121	1	30		
2-Hexanone	115	118	34 - 161	2	30		
Methylene Chloride	98	96	70 - 125	2	30		
4-Methyl-2-pentanone (MIBK)	112	113	40 - 151	1	30		
Styrene	101	100	82 - 122	1	30		
1,1,1,2-Tetrachloroethane	101	103	81 - 128	1	30		
1,1,2,2-Tetrachloroethane	105	105	69 - 129	0	30		
Tetrachloroethene	98	99	76 - 126	1	30		
Toluene	99	99	81 - 117	0	30		
trans-1,2-Dichloroethene	103	99	72 - 131	4	30		
trans-1,3-Dichloropropene	82	85	73 - 128	3	30		
1,1,1-Trichloroethane	103	103	76 - 127	0	30		

Client: Ashland Inc. Job Number: 680-58279-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-171163

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-171163/15	Analysis Batch:	680-171163	Instrument ID:	MSO
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	oq287.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/09/2010 2009			Final Weight/Volume:	5 mL
Date Prepared:	06/09/2010 2009				

LCSD Lab Sample ID:	LCSD 680-171163/16	Analysis Batch:	680-171163	Instrument ID:	MSO
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	oq288.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/09/2010 2030			Final Weight/Volume:	5 mL
Date Prepared:	06/09/2010 2030				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,1,2-Trichloroethane	96	98	75 - 121	2	30		
Trichloroethene	94	95	84 - 115	1	30		
Trichlorofluoromethane	114	108	58 - 149	5	50		
1,2,3-Trichloropropane	99	99	70 - 130	0	30		
Vinyl acetate	117	114	10 - 217	2	30		
Vinyl chloride	101	95	59 - 144	6	50		
Xylenes, Total	100	99	84 - 118	0	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	99	99	75 - 120
Dibromofluoromethane	99	97	75 - 121
Toluene-d8 (Surr)	102	102	75 - 120

Client: Ashland Inc. Job Number: 680-58279-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 680-171163

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-171163/15	Units:	ug/L	LCSD Lab Sample ID:	LCSD 680-171163/16
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Date Analyzed:	06/09/2010 2009			Date Analyzed:	06/09/2010 2030
Date Prepared:	06/09/2010 2009			Date Prepared:	06/09/2010 2030

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Acetone	100	100	133	131
Benzene	50.0	50.0	49.5	50.1
Bromoform	50.0	50.0	51.6	52.2
Bromomethane	50.0	50.0	34.8	35.6
2-Butanone (MEK)	100	100	114	109
Carbon disulfide	50.0	50.0	43.8	42.9
Carbon tetrachloride	50.0	50.0	53.5	54.4
Chlorobenzene	50.0	50.0	47.0	46.4
Chlorodibromomethane	50.0	50.0	41.5	41.7
Chloroethane	50.0	50.0	51.8	49.0
Chloroform	50.0	50.0	46.2	45.3
Chloromethane	50.0	50.0	42.9	42.1
cis-1,3-Dichloropropene	50.0	50.0	49.5	49.7
1,2-Dibromo-3-Chloropropane	50.0	50.0	49.8	49.6
Dibromomethane	50.0	50.0	51.0	50.3
Dichlorobromomethane	50.0	50.0	48.7	50.2
Dichlorodifluoromethane	50.0	50.0	45.4	44.8
1,1-Dichloroethane	50.0	50.0	52.2	50.3
1,2-Dichloroethane	50.0	50.0	51.0	51.4
1,1-Dichloroethene	50.0	50.0	52.1	50.4
1,2-Dichloropropane	50.0	50.0	49.4	49.9
Ethylbenzene	50.0	50.0	49.6	48.6
Ethylene Dibromide	50.0	50.0	48.4	48.9
2-Hexanone	100	100	115	118
Methylene Chloride	50.0	50.0	48.8	48.1
4-Methyl-2-pentanone (MIBK)	100	100	112	113
Styrene	50.0	50.0	50.4	50.0
1,1,1,2-Tetrachloroethane	50.0	50.0	50.7	51.4
1,1,2,2-Tetrachloroethane	50.0	50.0	52.3	52.5
Tetrachloroethene	50.0	50.0	49.1	49.6
Toluene	50.0	50.0	49.3	49.5
trans-1,2-Dichloroethene	50.0	50.0	51.4	49.5
trans-1,3-Dichloropropene	50.0	50.0	41.0	42.5
1,1,1-Trichloroethane	50.0	50.0	51.5	51.6
1,1,2-Trichloroethane	50.0	50.0	48.1	49.1
Trichloroethene	50.0	50.0	47.1	47.6
Trichlorofluoromethane	50.0	50.0	56.9	54.0
1,2,3-Trichloropropane	50.0	50.0	49.6	49.5
Vinyl acetate	100	100	117	114
Vinyl chloride	50.0	50.0	50.5	47.4
Xylenes, Total	150	150	150	149

Client: Ashland Inc. Job Number: 680-58279-1

Method Blank - Batch: 680-171185

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-171185/14
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/10/2010 1122
Date Prepared: 06/10/2010 1122

Analysis Batch: 680-171185
Prep Batch: N/A
Units: ug/L

Instrument ID: MSO
Lab File ID: oq299.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0

Client: Ashland Inc. Job Number: 680-58279-1

Method Blank - Batch: 680-171185

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-171185/14
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/10/2010 1122
Date Prepared: 06/10/2010 1122

Analysis Batch: 680-171185
Prep Batch: N/A
Units: ug/L

Instrument ID: MSO
Lab File ID: oq299.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	94	75 - 120
Dibromofluoromethane	98	75 - 121
Toluene-d8 (Surr)	105	75 - 120

Client: Ashland Inc. Job Number: 680-58279-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-171185

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 680-171185/11
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/10/2010 0959
Date Prepared: 06/10/2010 0959

Analysis Batch: 680-171185
Prep Batch: N/A
Units: ug/L

Instrument ID: MSO
Lab File ID: oq295.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

LCSD Lab Sample ID: LCSD 680-171185/12
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/10/2010 1019
Date Prepared: 06/10/2010 1019

Analysis Batch: 680-171185
Prep Batch: N/A
Units: ug/L

Instrument ID: MSO
Lab File ID: oq296.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	99	104	17 - 175	5	50		
Benzene	101	102	77 - 119	1	30		
Bromoform	109	108	62 - 133	1	30		
Bromomethane	100	101	12 - 184	1	50		
2-Butanone (MEK)	94	90	33 - 157	4	30		
Carbon disulfide	94	93	55 - 131	1	30		
Carbon tetrachloride	107	107	71 - 135	0	30		
Chlorobenzene	94	93	85 - 116	0	30		
Chlorodibromomethane	83	81	75 - 133	2	30		
Chloroethane	120	110	40 - 165	8	50		
Chloroform	98	97	82 - 120	1	30		
Chloromethane	100	99	48 - 142	1	50		
cis-1,3-Dichloropropene	103	100	76 - 126	3	30		
1,2-Dibromo-3-Chloropropane	97	99	49 - 140	2	30		
Dibromomethane	101	98	78 - 119	2	30		
Dichlorobromomethane	106	105	78 - 127	1	30		
Dichlorodifluoromethane	99	97	34 - 154	2	30		
1,1-Dichloroethane	104	101	74 - 127	3	30		
1,2-Dichloroethane	103	104	66 - 132	1	30		
1,1-Dichloroethene	96	94	62 - 141	2	30		
1,2-Dichloropropane	101	98	73 - 124	3	30		
Ethylbenzene	100	99	86 - 116	1	30		
Ethylene Dibromide	96	95	80 - 121	1	30		
2-Hexanone	96	97	34 - 161	1	30		
Methylene Chloride	96	93	70 - 125	3	30		
4-Methyl-2-pentanone (MIBK)	102	103	40 - 151	0	30		
Styrene	98	98	82 - 122	1	30		
1,1,1,2-Tetrachloroethane	105	102	81 - 128	3	30		
1,1,2,2-Tetrachloroethane	96	94	69 - 129	2	30		
Tetrachloroethene	95	94	76 - 126	1	30		
Toluene	102	101	81 - 117	1	30		
trans-1,2-Dichloroethene	95	94	72 - 131	0	30		
trans-1,3-Dichloropropene	85	83	73 - 128	2	30		
1,1,1-Trichloroethane	103	103	76 - 127	1	30		

Client: Ashland Inc. Job Number: 680-58279-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-171185

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-171185/11	Analysis Batch:	680-171185	Instrument ID:	MSO
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	oq295.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/10/2010 0959			Final Weight/Volume:	5 mL
Date Prepared:	06/10/2010 0959				

LCSD Lab Sample ID:	LCSD 680-171185/12	Analysis Batch:	680-171185	Instrument ID:	MSO
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	oq296.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/10/2010 1019			Final Weight/Volume:	5 mL
Date Prepared:	06/10/2010 1019				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,1,2-Trichloroethane	96	97	75 - 121	0	30		
Trichloroethene	98	96	84 - 115	2	30		
Trichlorofluoromethane	124	120	58 - 149	3	50		
1,2,3-Trichloropropane	95	94	70 - 130	1	30		
Vinyl acetate	152	148	10 - 217	3	30		
Vinyl chloride	106	106	59 - 144	0	50		
Xylenes, Total	98	97	84 - 118	1	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	97	95	75 - 120
Dibromofluoromethane	97	94	75 - 121
Toluene-d8 (Surr)	102	101	75 - 120

Client: Ashland Inc. Job Number: 680-58279-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 680-171185

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-171185/11	Units:	ug/L	LCSD Lab Sample ID:	LCSD 680-171185/12
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Date Analyzed:	06/10/2010 0959			Date Analyzed:	06/10/2010 1019
Date Prepared:	06/10/2010 0959			Date Prepared:	06/10/2010 1019

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Acetone	100	100	99.3	104
Benzene	50.0	50.0	50.5	50.8
Bromoform	50.0	50.0	54.6	53.8
Bromomethane	50.0	50.0	49.9	50.3
2-Butanone (MEK)	100	100	94.0	89.9
Carbon disulfide	50.0	50.0	47.1	46.5
Carbon tetrachloride	50.0	50.0	53.7	53.5
Chlorobenzene	50.0	50.0	46.8	46.7
Chlorodibromomethane	50.0	50.0	41.5	40.6
Chloroethane	50.0	50.0	60.0	55.2
Chloroform	50.0	50.0	49.2	48.7
Chloromethane	50.0	50.0	50.0	49.3
cis-1,3-Dichloropropene	50.0	50.0	51.3	49.8
1,2-Dibromo-3-Chloropropane	50.0	50.0	48.7	49.7
Dibromomethane	50.0	50.0	50.3	49.1
Dichlorobromomethane	50.0	50.0	52.9	52.6
Dichlorodifluoromethane	50.0	50.0	49.5	48.7
1,1-Dichloroethane	50.0	50.0	52.0	50.4
1,2-Dichloroethane	50.0	50.0	51.5	51.8
1,1-Dichloroethene	50.0	50.0	47.9	47.2
1,2-Dichloropropane	50.0	50.0	50.7	49.0
Ethylbenzene	50.0	50.0	50.0	49.3
Ethylene Dibromide	50.0	50.0	48.0	47.5
2-Hexanone	100	100	96.2	96.8
Methylene Chloride	50.0	50.0	48.2	46.7
4-Methyl-2-pentanone (MIBK)	100	100	102	103
Styrene	50.0	50.0	49.2	48.8
1,1,1,2-Tetrachloroethane	50.0	50.0	52.3	50.8
1,1,2,2-Tetrachloroethane	50.0	50.0	48.0	47.2
Tetrachloroethene	50.0	50.0	47.6	46.9
Toluene	50.0	50.0	51.0	50.5
trans-1,2-Dichloroethene	50.0	50.0	47.3	47.2
trans-1,3-Dichloropropene	50.0	50.0	42.6	41.6
1,1,1-Trichloroethane	50.0	50.0	51.7	51.4
1,1,2-Trichloroethane	50.0	50.0	48.2	48.3
Trichloroethene	50.0	50.0	49.0	48.2
Trichlorofluoromethane	50.0	50.0	62.0	60.0
1,2,3-Trichloropropane	50.0	50.0	47.4	46.8
Vinyl acetate	100	100	152	148
Vinyl chloride	50.0	50.0	53.2	53.2
Xylenes, Total	150	150	147	146

Method Blank - Batch: 680-170727

Method: 8081A_8082
Preparation: 3520C

Lab Sample ID: MB 680-170727/15-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/09/2010 1745
Date Prepared: 06/07/2010 1421

Analysis Batch: 680-171114
Prep Batch: 680-170727
Units: ug/L

Instrument ID: SGM
Lab File ID: mf08088.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
Toxaphene, Total	5.0	U	0.50	5.0

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	72	14 - 115
Tetrachloro-m-xylene	71	35 - 120

Lab Control Sample - Batch: 680-170727

Method: 8081A_8082
Preparation: 3520C

Lab Sample ID: LCS 680-170727/20-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/09/2010 1922
Date Prepared: 06/07/2010 1421

Analysis Batch: 680-171114
Prep Batch: 680-170727
Units: ug/L

Instrument ID: SGM
Lab File ID: mf08093.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Toxaphene, Total	10.0	6.74	67	30 - 120	

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	73	14 - 115
Tetrachloro-m-xylene	68	35 - 120

Method Blank - Batch: 680-170727

Method: 8081B/8082A
Preparation: 3520C

Lab Sample ID: MB 680-170727/15-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/09/2010 1745
Date Prepared: 06/07/2010 1421

Analysis Batch: 680-171118
Prep Batch: 680-170727
Units: ug/L

Instrument ID: SGM
Lab File ID: mf08088.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
Toxaphene, Technical	5.0	U	0.50	5.0

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	64	14 - 115
Tetrachloro-m-xylene	82	35 - 120

Lab Control Sample - Batch: 680-170727

Method: 8081B/8082A
Preparation: 3520C

Lab Sample ID: LCS 680-170727/20-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/09/2010 1922
Date Prepared: 06/07/2010 1421

Analysis Batch: 680-171118
Prep Batch: 680-170727
Units: ug/L

Instrument ID: SGM
Lab File ID: mf08093.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Toxaphene, Technical	10.0	8.08	81	30 - 120	

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	73	14 - 115
Tetrachloro-m-xylene	68	35 - 120

Client: Ashland Inc. Job Number: 680-58279-1

Method Blank - Batch: 680-171282

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID: MB 680-171282/21-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/15/2010 1543
Date Prepared: 06/11/2010 1157

Analysis Batch: 680-171623
Prep Batch: 680-171282
Units: ug/L

Instrument ID: ICPD
Lab File ID: 061510.chr
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Antimony	20	U	5.2	20
Arsenic	20	U	10	20
Barium	10	U	2.0	10
Beryllium	4.0	U	0.10	4.0
Cadmium	5.0	U	2.0	5.0
Chromium	10	U	2.0	10
Cobalt	10	U	1.0	10
Copper	20	U	5.0	20
Lead	10	U	3.4	10
Nickel	40	U	4.0	40
Selenium	20	U	6.4	20
Silver	10	U	0.97	10
Thallium	25	U	8.7	25
Tin	50	U	5.4	50
Vanadium	10	U	3.0	10
Zinc	20	U	6.3	20

Client: Ashland Inc.

Job Number: 680-58279-1

Lab Control Sample - Batch: 680-171282

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID: LCS 680-171282/22-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/15/2010 1548
Date Prepared: 06/11/2010 1157

Analysis Batch: 680-171623
Prep Batch: 680-171282
Units: ug/L

Instrument ID: ICPD
Lab File ID: 061510.chr
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Antimony	500	500	100	75 - 125	
Arsenic	2000	1980	99	75 - 125	
Barium	2000	2000	100	75 - 125	
Beryllium	50.0	50.0	100	75 - 125	
Cadmium	50.0	50.9	102	75 - 125	
Chromium	200	200	100	75 - 125	
Cobalt	500	496	99	75 - 125	
Copper	250	242	97	75 - 125	
Lead	500	504	101	75 - 125	
Nickel	500	490	98	75 - 125	
Selenium	2000	2050	102	75 - 125	
Silver	50.0	48.7	97	75 - 125	
Thallium	2000	2070	104	75 - 125	
Tin	1000	954	95	75 - 125	
Vanadium	500	483	97	75 - 125	
Zinc	500	502	100	75 - 125	

Method Blank - Batch: 680-171421

Method: 7470A
Preparation: 7470A

Lab Sample ID:	MB 680-171421/23-A	Analysis Batch:	680-171505	Instrument ID:	LEEMAN1
Client Matrix:	Water	Prep Batch:	680-171421	Lab File ID:	b061410.chr
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	50 mL
Date Analyzed:	06/14/2010 1834			Final Weight/Volume:	50 mL
Date Prepared:	06/14/2010 1106				

Analyte	Result	Qual	MDL	RL
Mercury	0.20	U	0.091	0.20

Lab Control Sample - Batch: 680-171421

Method: 7470A
Preparation: 7470A

Lab Sample ID:	LCS 680-171421/24-A	Analysis Batch:	680-171505	Instrument ID:	LEEMAN1
Client Matrix:	Water	Prep Batch:	680-171421	Lab File ID:	b061410.chr
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	50 mL
Date Analyzed:	06/14/2010 1837			Final Weight/Volume:	50 mL
Date Prepared:	06/14/2010 1106				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	2.50	2.45	98	80 - 120	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-171421

Method: 7470A
Preparation: 7470A

MS Lab Sample ID:	680-58279-16	Analysis Batch:	680-171505	Instrument ID:	LEEMAN1
Client Matrix:	Water	Prep Batch:	680-171421	Lab File ID:	b061410.chr
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	06/14/2010 1949			Final Weight/Volume:	50 mL
Date Prepared:	06/14/2010 1106				

MSD Lab Sample ID:	680-58279-16	Analysis Batch:	680-171505	Instrument ID:	LEEMAN1
Client Matrix:	Water	Prep Batch:	680-171421	Lab File ID:	b061410.chr
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	06/14/2010 1952			Final Weight/Volume:	50 mL
Date Prepared:	06/14/2010 1106				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury	113	109	80 - 120	4	20		

Client: Ashland Inc.

Job Number: 680-58279-1

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 680-171421

Method: 7470A
Preparation: 7470A

MS Lab Sample ID:	680-58279-16	Units: ug/L	MSD Lab Sample ID:	680-58279-16	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Date Analyzed:	06/14/2010 1949		Date Analyzed:	06/14/2010 1952	
Date Prepared:	06/14/2010 1106		Date Prepared:	06/14/2010 1106	

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Mercury	0.20	U	1.00	1.00	1.13	1.09

Client: Ashland Inc. Job Number: 680-58279-1

Laboratory Chronicle

Lab ID: 680-58279-1 **Client ID: MW2D**

Sample Date/Time: 06/03/2010 07:50 Received Date/Time: 06/04/2010 10:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58279-B-1		680-171163		06/10/2010 01:28	5	TAL SAV	WJC
A:8260B	680-58279-B-1		680-171163		06/10/2010 01:28	5	TAL SAV	WJC

Lab ID: 680-58279-2 **Client ID: MW44I**

Sample Date/Time: 06/03/2010 10:00 Received Date/Time: 06/04/2010 10:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58279-D-2		680-171000		06/09/2010 16:28	1	TAL SAV	JW
A:8260B	680-58279-D-2		680-171000		06/09/2010 16:28	1	TAL SAV	JW
P:3520C	680-58279-A-2-A		680-171114	680-170727	06/07/2010 14:21	1	TAL SAV	RBS
A:8081A_8082	680-58279-A-2-A		680-171114	680-170727	06/09/2010 21:38	1	TAL SAV	JK
P:3520C	680-58279-A-2-A		680-171118	680-170727	06/07/2010 14:21	1	TAL SAV	RBS
A:8081B/8082A	680-58279-A-2-A		680-171118	680-170727	06/09/2010 21:38	1	TAL SAV	JK
P:3005A	680-58279-C-2-A		680-171623	680-171282	06/11/2010 11:57	1	TAL SAV	RA
A:6010B	680-58279-C-2-A		680-171623	680-171282	06/15/2010 17:20	1	TAL SAV	BCB
P:7470A	680-58279-A-2-B		680-171505	680-171421	06/14/2010 11:06	1	TAL SAV	DH
A:7470A	680-58279-A-2-B		680-171505	680-171421	06/14/2010 19:26	1	TAL SAV	CE

Lab ID: 680-58279-3 **Client ID: MW44ID**

Sample Date/Time: 06/03/2010 11:30 Received Date/Time: 06/04/2010 10:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58279-F-3		680-171185		06/10/2010 13:31	5	TAL SAV	RB
A:8260B	680-58279-F-3		680-171185		06/10/2010 13:31	5	TAL SAV	RB
P:3520C	680-58279-B-3-A		680-171114	680-170727	06/07/2010 14:21	1	TAL SAV	RBS
A:8081A_8082	680-58279-B-3-A		680-171114	680-170727	06/09/2010 21:58	1	TAL SAV	JK
P:3520C	680-58279-B-3-A		680-171118	680-170727	06/07/2010 14:21	1	TAL SAV	RBS
A:8081B/8082A	680-58279-B-3-A		680-171118	680-170727	06/09/2010 21:58	1	TAL SAV	JK
P:3005A	680-58279-C-3-A		680-171623	680-171282	06/11/2010 11:57	1	TAL SAV	RA
A:6010B	680-58279-C-3-A		680-171623	680-171282	06/15/2010 17:25	1	TAL SAV	BCB
P:7470A	680-58279-A-3-A		680-171505	680-171421	06/14/2010 11:06	1	TAL SAV	DH
A:7470A	680-58279-A-3-A		680-171505	680-171421	06/14/2010 19:29	1	TAL SAV	CE

Client: Ashland Inc. Job Number: 680-58279-1

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Lab ID: 680-58279-4 **Client ID: MW44D**

Sample Date/Time: 06/03/2010 14:00 Received Date/Time: 06/04/2010 10:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58279-E-4		680-171163		06/10/2010 01:48	2	TAL SAV	WJC
A:8260B	680-58279-E-4		680-171163		06/10/2010 01:48	2	TAL SAV	WJC
P:3520C	680-58279-A-4-A		680-171114	680-170727	06/07/2010 14:21	1	TAL SAV	RBS
A:8081A_8082	680-58279-A-4-A		680-171114	680-170727	06/09/2010 22:17	1	TAL SAV	JK
P:3520C	680-58279-A-4-A		680-171118	680-170727	06/07/2010 14:21	1	TAL SAV	RBS
A:8081B/8082A	680-58279-A-4-A		680-171118	680-170727	06/09/2010 22:17	1	TAL SAV	JK
P:3005A	680-58279-C-4-A		680-171623	680-171282	06/11/2010 11:57	1	TAL SAV	RA
A:6010B	680-58279-C-4-A		680-171623	680-171282	06/15/2010 17:40	1	TAL SAV	BCB
P:7470A	680-58279-A-4-B		680-171505	680-171421	06/14/2010 11:06	1	TAL SAV	DH
A:7470A	680-58279-A-4-B		680-171505	680-171421	06/14/2010 19:32	1	TAL SAV	CE

Lab ID: 680-58279-5 **Client ID: MW2S**

Sample Date/Time: 06/03/2010 07:45 Received Date/Time: 06/04/2010 10:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58279-B-5		680-171185		06/10/2010 13:52	5	TAL SAV	RB
A:8260B	680-58279-B-5		680-171185		06/10/2010 13:52	5	TAL SAV	RB

Lab ID: 680-58279-6 **Client ID: MW1S**

Sample Date/Time: 06/03/2010 08:20 Received Date/Time: 06/04/2010 10:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58279-A-6		680-171163		06/10/2010 03:32	1	TAL SAV	WJC
A:8260B	680-58279-A-6		680-171163		06/10/2010 03:32	1	TAL SAV	WJC

Lab ID: 680-58279-7 **Client ID: MW25S**

Sample Date/Time: 06/03/2010 08:55 Received Date/Time: 06/04/2010 10:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58279-D-7		680-171185		06/10/2010 12:50	1	TAL SAV	RB
A:8260B	680-58279-D-7		680-171185		06/10/2010 12:50	1	TAL SAV	RB
P:3520C	680-58279-B-7-A		680-171114	680-170727	06/07/2010 14:21	1	TAL SAV	RBS
A:8081A_8082	680-58279-B-7-A		680-171114	680-170727	06/09/2010 22:36	1	TAL SAV	JK
P:3520C	680-58279-B-7-A		680-171118	680-170727	06/07/2010 14:21	1	TAL SAV	RBS
A:8081B/8082A	680-58279-B-7-A		680-171118	680-170727	06/09/2010 22:36	1	TAL SAV	JK

Client: Ashland Inc. Job Number: 680-58279-1

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Lab ID: 680-58279-8 **Client ID:** MW25D

Sample Date/Time: 06/03/2010 09:30 Received Date/Time: 06/04/2010 10:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58279-C-8		680-171003		06/09/2010 16:42	1	TAL SAV	JW
A:8260B	680-58279-C-8		680-171003		06/09/2010 16:42	1	TAL SAV	JW
P:3520C	680-58279-A-8-A		680-171114	680-170727	06/07/2010 14:21	1	TAL SAV	RBS
A:8081A_8082	680-58279-A-8-A		680-171114	680-170727	06/09/2010 22:56	1	TAL SAV	JK
P:3520C	680-58279-A-8-A		680-171118	680-170727	06/07/2010 14:21	1	TAL SAV	RBS
A:8081B/8082A	680-58279-A-8-A		680-171118	680-170727	06/09/2010 22:56	1	TAL SAV	JK

Lab ID: 680-58279-9 **Client ID:** MW14S

Sample Date/Time: 06/03/2010 11:00 Received Date/Time: 06/04/2010 10:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58279-D-9		680-171185		06/10/2010 11:47	1	TAL SAV	RB
A:8260B	680-58279-D-9		680-171185		06/10/2010 11:47	1	TAL SAV	RB

Lab ID: 680-58279-10 **Client ID:** MW14D

Sample Date/Time: 06/03/2010 11:50 Received Date/Time: 06/04/2010 10:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58279-C-10		680-171185		06/10/2010 12:08	1	TAL SAV	RB
A:8260B	680-58279-C-10		680-171185		06/10/2010 12:08	1	TAL SAV	RB

Lab ID: 680-58279-11 **Client ID:** MW15S

Sample Date/Time: 06/03/2010 17:20 Received Date/Time: 06/04/2010 10:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58279-A-11		680-171003		06/09/2010 19:33	1	TAL SAV	JW
A:8260B	680-58279-A-11		680-171003		06/09/2010 19:33	1	TAL SAV	JW

Client: Ashland Inc. Job Number: 680-58279-1

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Lab ID: 680-58279-12 **Client ID: Equip Blank (Mega Monsoon)**

Sample Date/Time: 06/02/2010 18:00 Received Date/Time: 06/04/2010 10:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58279-D-12		680-170853		06/08/2010 15:42	1	TAL SAV	CL
A:8260B	680-58279-D-12		680-170853		06/08/2010 15:42	1	TAL SAV	CL
P:3520C	680-58279-B-12-A		680-171114	680-170727	06/07/2010 14:21	1	TAL SAV	RBS
A:8081A_8082	680-58279-B-12-A		680-171114	680-170727	06/09/2010 23:15	1	TAL SAV	JK
P:3520C	680-58279-B-12-A		680-171118	680-170727	06/07/2010 14:21	1	TAL SAV	RBS
A:8081B/8082A	680-58279-B-12-A		680-171118	680-170727	06/09/2010 23:15	1	TAL SAV	JK
P:3005A	680-58279-C-12-A		680-171623	680-171282	06/11/2010 11:57	1	TAL SAV	RA
A:6010B	680-58279-C-12-A		680-171623	680-171282	06/15/2010 17:46	1	TAL SAV	BCB
P:7470A	680-58279-A-12-A		680-171505	680-171421	06/14/2010 11:06	1	TAL SAV	DH
A:7470A	680-58279-A-12-A		680-171505	680-171421	06/14/2010 19:40	1	TAL SAV	CE

Lab ID: 680-58279-13 **Client ID: Equip Blank (PP)**

Sample Date/Time: 06/02/2010 18:30 Received Date/Time: 06/04/2010 10:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58279-D-13		680-170853		06/08/2010 16:11	1	TAL SAV	CL
A:8260B	680-58279-D-13		680-170853		06/08/2010 16:11	1	TAL SAV	CL
P:3520C	680-58279-A-13-A		680-171114	680-170727	06/07/2010 14:21	1	TAL SAV	RBS
A:8081A_8082	680-58279-A-13-A		680-171114	680-170727	06/09/2010 23:35	1	TAL SAV	JK
P:3520C	680-58279-A-13-A		680-171118	680-170727	06/07/2010 14:21	1	TAL SAV	RBS
A:8081B/8082A	680-58279-A-13-A		680-171118	680-170727	06/09/2010 23:35	1	TAL SAV	JK
P:3005A	680-58279-C-13-A		680-171623	680-171282	06/11/2010 11:57	1	TAL SAV	RA
A:6010B	680-58279-C-13-A		680-171623	680-171282	06/15/2010 17:51	1	TAL SAV	BCB
P:7470A	680-58279-A-13-B		680-171505	680-171421	06/14/2010 11:06	1	TAL SAV	DH
A:7470A	680-58279-A-13-B		680-171505	680-171421	06/14/2010 19:43	1	TAL SAV	CE

Lab ID: 680-58279-14 **Client ID: Field Blank 1**

Sample Date/Time: 06/03/2010 16:30 Received Date/Time: 06/04/2010 10:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58279-A-14		680-171000		06/09/2010 14:35	1	TAL SAV	JW
A:8260B	680-58279-A-14		680-171000		06/09/2010 14:35	1	TAL SAV	JW

Lab ID: 680-58279-15 **Client ID: Trip Blank Lot 051110**

Sample Date/Time: 06/03/2010 00:00 Received Date/Time: 06/04/2010 10:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58279-A-15		680-171000		06/09/2010 15:03	1	TAL SAV	JW
A:8260B	680-58279-A-15		680-171000		06/09/2010 15:03	1	TAL SAV	JW

Client: Ashland Inc. Job Number: 680-58279-1

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Lab ID: 680-58279-16 **Client ID: MW-44S**

Sample Date/Time: 06/03/2010 14:00 Received Date/Time: 06/04/2010 10:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58279-A-16		680-171185		06/10/2010 12:29	1	TAL SAV	RB
A:8260B	680-58279-A-16		680-171185		06/10/2010 12:29	1	TAL SAV	RB
P:3520C	680-58279-B-16-A		680-171114	680-170727	06/07/2010 14:21	1	TAL SAV	RBS
A:8081A_8082	680-58279-B-16-A		680-171114	680-170727	06/09/2010 23:54	1	TAL SAV	JK
P:3520C	680-58279-B-16-A		680-171118	680-170727	06/07/2010 14:21	1	TAL SAV	RBS
A:8081B/8082A	680-58279-B-16-A		680-171118	680-170727	06/09/2010 23:54	1	TAL SAV	JK
P:3005A	680-58279-C-16-B		680-171623	680-171282	06/11/2010 11:57	1	TAL SAV	RA
A:6010B	680-58279-C-16-B		680-171623	680-171282	06/15/2010 17:56	1	TAL SAV	BCB
P:7470A	680-58279-A-16-A		680-171505	680-171421	06/14/2010 11:06	1	TAL SAV	DH
A:7470A	680-58279-A-16-A		680-171505	680-171421	06/14/2010 19:46	1	TAL SAV	CE

Lab ID: 680-58279-16 MS **Client ID: MW-44S**

Sample Date/Time: 06/03/2010 14:00 Received Date/Time: 06/04/2010 10:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	680-58279-A-16-B MS		680-171505	680-171421	06/14/2010 11:06	1	TAL SAV	DH
A:7470A	680-58279-A-16-B MS		680-171505	680-171421	06/14/2010 19:49	1	TAL SAV	CE

Lab ID: 680-58279-16 MSD **Client ID: MW-44S**

Sample Date/Time: 06/03/2010 14:00 Received Date/Time: 06/04/2010 10:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	680-58279-A-16-C MSD		680-171505	680-171421	06/14/2010 11:06	1	TAL SAV	DH
A:7470A	680-58279-A-16-C MSD		680-171505	680-171421	06/14/2010 19:52	1	TAL SAV	CE

Lab ID: 680-58279-17 **Client ID: MW-1D**

Sample Date/Time: 06/03/2010 09:00 Received Date/Time: 06/04/2010 10:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58279-A-17		680-171185		06/10/2010 14:13	2	TAL SAV	RB
A:8260B	680-58279-A-17		680-171185		06/10/2010 14:13	2	TAL SAV	RB

Client: Ashland Inc. Job Number: 680-58279-1

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Lab ID: MB **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	MB 680-170853/9		680-170853		06/08/2010 12:11	1	TAL SAV	CL
A:8260B	MB 680-170853/9		680-170853		06/08/2010 12:11	1	TAL SAV	CL
P:5030B	MB 680-171000/10		680-171000		06/09/2010 11:47	1	TAL SAV	JW
A:8260B	MB 680-171000/10		680-171000		06/09/2010 11:47	1	TAL SAV	JW
P:5030B	MB 680-171003/8		680-171003		06/09/2010 12:01	1	TAL SAV	JW
A:8260B	MB 680-171003/8		680-171003		06/09/2010 12:01	1	TAL SAV	JW
P:5030B	MB 680-171163/18		680-171163		06/09/2010 21:33	1	TAL SAV	WJC
A:8260B	MB 680-171163/18		680-171163		06/09/2010 21:33	1	TAL SAV	WJC
P:5030B	MB 680-171185/14		680-171185		06/10/2010 11:22	1	TAL SAV	RB
A:8260B	MB 680-171185/14		680-171185		06/10/2010 11:22	1	TAL SAV	RB
P:3520C	MB 680-170727/15-A		680-171114	680-170727	06/07/2010 14:21	1	TAL SAV	RBS
A:8081A_8082	MB 680-170727/15-A		680-171114	680-170727	06/09/2010 17:45	1	TAL SAV	JK
P:3520C	MB 680-170727/15-A		680-171118	680-170727	06/07/2010 14:21	1	TAL SAV	RBS
A:8081B/8082A	MB 680-170727/15-A		680-171118	680-170727	06/09/2010 17:45	1	TAL SAV	JK
P:3005A	MB 680-171282/21-A		680-171623	680-171282	06/11/2010 11:57	1	TAL SAV	RA
A:6010B	MB 680-171282/21-A		680-171623	680-171282	06/15/2010 15:43	1	TAL SAV	BCB
P:7470A	MB 680-171421/23-A		680-171505	680-171421	06/14/2010 11:06	1	TAL SAV	DH
A:7470A	MB 680-171421/23-A		680-171505	680-171421	06/14/2010 18:34	1	TAL SAV	CE

Lab ID: LCS **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCS 680-170853/6		680-170853		06/08/2010 10:13	1	TAL SAV	CL
A:8260B	LCS 680-170853/6		680-170853		06/08/2010 10:13	1	TAL SAV	CL
P:5030B	LCS 680-171000/4		680-171000		06/09/2010 09:28	1	TAL SAV	JW
A:8260B	LCS 680-171000/4		680-171000		06/09/2010 09:28	1	TAL SAV	JW
P:5030B	LCS 680-171003/5		680-171003		06/09/2010 09:42	1	TAL SAV	JW
A:8260B	LCS 680-171003/5		680-171003		06/09/2010 09:42	1	TAL SAV	JW
P:5030B	LCS 680-171163/15		680-171163		06/09/2010 20:09	1	TAL SAV	WJC
A:8260B	LCS 680-171163/15		680-171163		06/09/2010 20:09	1	TAL SAV	WJC
P:5030B	LCS 680-171185/11		680-171185		06/10/2010 09:59	1	TAL SAV	RB
A:8260B	LCS 680-171185/11		680-171185		06/10/2010 09:59	1	TAL SAV	RB
P:3520C	LCS 680-170727/20-A		680-171114	680-170727	06/07/2010 14:21	1	TAL SAV	RBS
A:8081A_8082	LCS 680-170727/20-A		680-171114	680-170727	06/09/2010 19:22	1	TAL SAV	JK
P:3520C	LCS 680-170727/20-A		680-171118	680-170727	06/07/2010 14:21	1	TAL SAV	RBS
A:8081B/8082A	LCS 680-170727/20-A		680-171118	680-170727	06/09/2010 19:22	1	TAL SAV	JK
P:3005A	LCS 680-171282/22-A		680-171623	680-171282	06/11/2010 11:57	1	TAL SAV	RA
A:6010B	LCS 680-171282/22-A		680-171623	680-171282	06/15/2010 15:48	1	TAL SAV	BCB
P:7470A	LCS 680-171421/24-A		680-171505	680-171421	06/14/2010 11:06	1	TAL SAV	DH
A:7470A	LCS 680-171421/24-A		680-171505	680-171421	06/14/2010 18:37	1	TAL SAV	CE

Client: Ashland Inc. Job Number: 680-58279-1

Laboratory Chronicle

Lab ID: LCSD **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCSD 680-170853/7		680-170853		06/08/2010 10:42	1	TAL SAV	CL
A:8260B	LCSD 680-170853/7		680-170853		06/08/2010 10:42	1	TAL SAV	CL
P:5030B	LCSD 680-171000/5		680-171000		06/09/2010 10:23	1	TAL SAV	JW
A:8260B	LCSD 680-171000/5		680-171000		06/09/2010 10:23	1	TAL SAV	JW
P:5030B	LCSD 680-171003/6		680-171003		06/09/2010 10:37	1	TAL SAV	JW
A:8260B	LCSD 680-171003/6		680-171003		06/09/2010 10:37	1	TAL SAV	JW
P:5030B	LCSD 680-171163/16		680-171163		06/09/2010 20:30	1	TAL SAV	WJC
A:8260B	LCSD 680-171163/16		680-171163		06/09/2010 20:30	1	TAL SAV	WJC
P:5030B	LCSD 680-171185/12		680-171185		06/10/2010 10:19	1	TAL SAV	RB
A:8260B	LCSD 680-171185/12		680-171185		06/10/2010 10:19	1	TAL SAV	RB

Lab References:
TAL SAV = TestAmerica Savannah

Serial Number 031427

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Phone: 8034222129
Fax: Ryan McLain

PROJECT REFERENCE: Asland Brunswick
PROJECT NO.: J09848509
PROJECT LOCATION (STATE): GA
TAL (LAB) PROJECT MANAGER: Lidia Gilizia
P.O. NUMBER: 450136047
CONTRACT NO.:
CLIENT (SITE) PM: Tim Hassett
CLIENT PHONE:
CLIENT FAX:
CLIENT NAME: Ashland Hercules
CLIENT E-MAIL:
CLIENT ADDRESS: 2508 Cook St Brunswick GA
COMPANY CONTRACTING THIS WORK (if applicable):

PAGE 1 OF 2
STANDARD REPORT DELIVERY: X
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE)
DATE DUE
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

REQUIRED ANALYSIS: VOC's; Total & technical Toxaphene; Metals
PRESERVATIVE: NaOH (Metals)

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	VOC's	Total & technical Toxaphene	Metals	REMARKS
6/3/10	750	MW2D	G	X				3			
	1600	MW44I						3	2	1	
	1130	MW44ID						3	2	1	
	1400	MW44D						3	2	1	
	0745	MW2S						3			
	0820	MW1S						3			
	0855	MW25S						3	2		
	0930	MW25D						3	2		
	1100	MW14S						3			
	1150	MW14D						3			
	1400	MW12S						3			
6/3/10	1720	MW15S						3			

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	6/3/10	920						
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**
Alex [signature]	06/04/10	0920						

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
George Conner [signature]	6/4/10	1030	YES ○ NO ○		680-58279	2.0/1.6/1.3

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TAL8240-680 (12

Serial Number 031429

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE: Ashland Brunswick	PROJECT NO.: J09849509	PROJECT LOCATION (STATE): GA	PAGE: 2 OF 2
TAL (LAB) PROJECT MANAGER: Lidia Gil-Zsi	P.O. NUMBER: 4501306047	CONTRACT NO.	STANDARD REPORT DELIVERY: X
CLIENT (SITE) PM: Tim Hassett	CLIENT PHONE	CLIENT FAX	DATE DUE:
CLIENT NAME: Ashland-Hercules	CLIENT E-MAIL		EXPEDITED REPORT DELIVERY (SURCHARGE): ○
CLIENT ADDRESS: 2508 Brunswick			DATE DUE:
COMPANY CONTRACTING THIS WORK (if applicable)			NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: VOC's	REQUIRED ANALYSIS: Total & Technical Toxaphene Metals	PRESERVATIVE	NUMBER OF CONTAINERS SUBMITTED	REMARKS
6/2/10	1800	Equip Blank (Mesa Monsoon)	G	X				3	2	1		
6/2/10	1830	Equip Blank (PA)	G	X				3	2	1		
6/3/10	1630	Field Blank 1	G	X				3				
6/3/10		Trip Blank Lot 05-1110	G	X				2				

Page 118 of 198

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	6/4/10	920						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
	6/4/10	0920						

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES ○ NO ○	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
	6/4/10	1030			680-58279	

TAL8240-680 (1207)

Login Sample Receipt Check List

Client: Ashland Inc.

Job Number: 680-58279-1

Login Number: 58279

List Source: TestAmerica Savannah

Creator: Conner, Keaton

List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	Rec'd 3 coolers on ice.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.0, 1.6, 1.3 C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	False	ID & Volume discrepancies, confirmed with client by PM (see narr).
Samples are received within Holding Time.	True	
Sample containers have legible labels.	False	MW44D - one L rec'd with time only, no other info.
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	MS/MSD not requested (no additional volume provided).
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified	True	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 680-58386-1

Job Description: Ashland Brunswick RFI GW June 2010

For:
Ashland Inc.
500 Hercules Road
Wilmington, DE 19894

Attention: Timothy Hassett

Approved for release.
Lidya Gulizia
Project Manager I
6/23/2010 5:35 PM

Lidya Gulizia
Project Manager I
lidya.gulizia@testamericainc.com
06/23/2010

cc: Kelley Baker
Mr. Leroy Bishop
Mr. Dennis Brunner
Ryan Cate
Mr. Tony Mancini
Ms. Charlene Rivard

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

Savannah Certifications and ID #s: A2LA: 0399.01; AL: 41450; ARDEQ: 88-0692; ARDOH; AZ: AZ0741; CA: 03217CA; CO; CT: PH0161; DE; FL: E87052; GA: 803; Guam; HI; IL: 200022; IN; IA: 353; KS: E-10322; KY EPPC: 90084; KY UST; LA DEQ: 30690; LA DHH: LA080008; ME: 2008022; MD: 250; MA: M-GA006; MI: 9925; MS; NFESC: 249; NV: GA00006; NJ: GA769; NM; NY: 10842; NC DWQ: 269; NC DHHS: 13701; PA: 68-00474; PR: GA00006; RI: LAO00244; SC: 98001001; TN: TN0296; TX: T104704185; USEPA: GA00006; VT: VT-87052; VA: 00302; WA; WV DEP: 094; WV DHHR: 9950 C; WI DNR: 999819810; WY/EPAR8: 8TMS-Q

TestAmerica Laboratories, Inc.
TestAmerica Savannah 5102 LaRoche Avenue, Savannah, GA 31404
Tel (912) 354-7858 Fax (912) 352-0165 www.testamericainc.com

ACCREDITED IN ACCORDANCE WITH nelac

Job Narrative
680-58386-1

Receipt
Method(s) 8260B: The container label for the following sample(s) did not match the information listed on the Chain-of-Custody (COC): FB(MW24D) (680-58386-3). The container labels list FB(MW24). The COC lists FB(MW24D).

All other samples were received in good condition within temperature requirements.

GC/MS VOA
Method(s) 8260B: The field blank associated with these samples contained a detection above the method detection limit (MDL) for the following analyte: 2-butanone.

No other analytical or quality issues were noted.

GC Semi VOA
Method(s) 8081A_8082: Two surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample(s) contained an allowable number of surrogate compounds outside limits: MW45I (680-58386-7), MW46I (680-58386-6). These results have been reported and qualified.

Method(s) 8081B/8082A: This method incorporates the use of second column confirmation. Corrective action for unacceptable percent recovery is not taken for surrogate or spike compounds unless the results from both columns are outside criteria. Any results which fall outside criteria are qualified and reported.

No other analytical or quality issues were noted.

Metals
No analytical or quality issues were noted.

Comments
No additional comments.

METHOD SUMMARY

Client: Ashland Inc. Job Number: 680-58386-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL SAV	SW846 8260B	
Purge and Trap	TAL SAV		SW846 5030B
Organochlorine Pesticides & PCBs (GC)	TAL SAV	SW846 8081A_8082	
Liquid-Liquid Extraction (Continuous)	TAL SAV		SW846 3520C
Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography	TAL SAV	SW846 8081B/8082A	
Liquid-Liquid Extraction (Continuous)	TAL SAV		SW846 3520C
Metals (ICP)	TAL SAV	SW846 6010B	
Prephrhnloi , TorhCRel overhbCe or DlAAoCvea MerhCA	TAL SAV		SW846 3005A
Mercury (CVAA)	TAL SAV	SW846 7470A	
Preparation, Mercury	TAL SAV		SW846 7470A

Lab References:

TAL SAV = TestAmerica Savannah

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Ashland Inc. Job Number: 680-58386-1

Method	Analyst	Analyst ID
SW846 8260B	Bearden, Robert	RB
SW846 8081A_8082	Kellar, Joshua	JK
SW846 8081B/8082A	Kellar, Joshua	JK
SW846 6010B	Bland, Brian	BCB
SW846 7470A	Eaton, Cliff	CE

SAMPLE SUMMARY

Client: Ashland Inc. Job Number: 680-58386-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-58386-1EB	EB(4)	Water	06/07/2010 1730	06/09/2010 0919
680-58386-2EB	EB(5)	Water	06/07/2010 1800	06/09/2010 0919
680-58386-3FB	FB(MW24D)	Water	06/07/2010 1700	06/09/2010 0919
680-58386-4FB	FB(MW44)	Water	06/07/2010 1639	06/09/2010 0919
680-58386-5FB	FB(MW48)	Water	06/07/2010 1600	06/09/2010 0919
680-58386-6	MW46I	Water	06/08/2010 0930	06/09/2010 0919
680-58386-7	MW45I	Water	06/08/2010 1030	06/09/2010 0919
680-58386-8TB	051110 Trip Blank	Water	06/08/2010 0000	06/09/2010 0919
680-58386-9	MW34	Water	06/08/2010 1230	06/09/2010 0919
680-58386-10	MW35D	Water	06/08/2010 1525	06/09/2010 0919
680-58386-11	MW31D	Water	06/08/2010 1330	06/09/2010 0919
680-58386-12	MW28D	Water	06/08/2010 1620	06/09/2010 0919

SAMPLE RESULTS

Client: Ashland Inc. Job Number: 680-58386-1

Client Sample ID: **EB(4)**

Lab Sample ID: 680-58386-1EB Date Sampled: 06/07/2010 1730
Client Matrix: Water Date Received: 06/09/2010 0919

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-171498 Instrument ID: MSO2
Preparation: 5030B Lab File ID: o0012.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/14/2010 1443 Final Weight/Volume: 5 mL
Date Prepared: 06/14/2010 1443

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-58386-1

Client Sample ID: **EB(4)**

Lab Sample ID: 680-58386-1EB Date Sampled: 06/07/2010 1730
Client Matrix: Water Date Received: 06/09/2010 0919

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-171498 Instrument ID: MSO2
Preparation: 5030B Lab File ID: o0012.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/14/2010 1443 Final Weight/Volume: 5 mL
Date Prepared: 06/14/2010 1443

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	93		75 - 120
Dibromofluoromethane	96		75 - 121
Toluene-d8 (Surr)	101		75 - 120

Client: Ashland Inc. Job Number: 680-58386-1

Client Sample ID: **EB(5)**

Lab Sample ID: 680-58386-2EB Date Sampled: 06/07/2010 1800
Client Matrix: Water Date Received: 06/09/2010 0919

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-171498 Instrument ID: MSO2
Preparation: 5030B Lab File ID: o0014.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/14/2010 1512 Final Weight/Volume: 5 mL
Date Prepared: 06/14/2010 1512

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-58386-1

Client Sample ID: **EB(5)**

Lab Sample ID: 680-58386-2EB Date Sampled: 06/07/2010 1800
Client Matrix: Water Date Received: 06/09/2010 0919

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-171498 Instrument ID: MSO2
Preparation: 5030B Lab File ID: o0014.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/14/2010 1512 Final Weight/Volume: 5 mL
Date Prepared: 06/14/2010 1512

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	93		75 - 120
Dibromofluoromethane	98		75 - 121
Toluene-d8 (Surr)	99		75 - 120

Client: Ashland Inc. Job Number: 680-58386-1

Client Sample ID: **FB(MW24D)**

Lab Sample ID: 680-58386-3FB Date Sampled: 06/07/2010 1700
Client Matrix: Water Date Received: 06/09/2010 0919

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-171498 Instrument ID: MSO2
Preparation: 5030B Lab File ID: o0016.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/14/2010 1541 Final Weight/Volume: 5 mL
Date Prepared: 06/14/2010 1541

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	1.2	J	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-58386-1

Client Sample ID: **FB(MW24D)**

Lab Sample ID: 680-58386-3FB Date Sampled: 06/07/2010 1700
Client Matrix: Water Date Received: 06/09/2010 0919

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-171498 Instrument ID: MSO2
Preparation: 5030B Lab File ID: o0016.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/14/2010 1541 Final Weight/Volume: 5 mL
Date Prepared: 06/14/2010 1541

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	93		75 - 120
Dibromofluoromethane	98		75 - 121
Toluene-d8 (Surr)	99		75 - 120

Client: Ashland Inc. Job Number: 680-58386-1

Client Sample ID: **FB(MW44)**

Lab Sample ID: 680-58386-4FB Date Sampled: 06/07/2010 1639
Client Matrix: Water Date Received: 06/09/2010 0919

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-171498 Instrument ID: MSO2
Preparation: 5030B Lab File ID: o0018.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/14/2010 1611 Final Weight/Volume: 5 mL
Date Prepared: 06/14/2010 1611

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	1.4	J	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-58386-1

Client Sample ID: **FB(MW44)**

Lab Sample ID: 680-58386-4FB Date Sampled: 06/07/2010 1639
Client Matrix: Water Date Received: 06/09/2010 0919

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-171498 Instrument ID: MSO2
Preparation: 5030B Lab File ID: o0018.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/14/2010 1611 Final Weight/Volume: 5 mL
Date Prepared: 06/14/2010 1611

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	93		75 - 120
Dibromofluoromethane	98		75 - 121
Toluene-d8 (Surr)	101		75 - 120

Client: Ashland Inc. Job Number: 680-58386-1

Client Sample ID: **FB(MW48)**

Lab Sample ID: 680-58386-5FB Date Sampled: 06/07/2010 1600
Client Matrix: Water Date Received: 06/09/2010 0919

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-171498 Instrument ID: MSO2
Preparation: 5030B Lab File ID: o0020.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/14/2010 1641 Final Weight/Volume: 5 mL
Date Prepared: 06/14/2010 1641

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	1.4	J	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-58386-1

Client Sample ID: **FB(MW48)**

Lab Sample ID: 680-58386-5FB Date Sampled: 06/07/2010 1600
Client Matrix: Water Date Received: 06/09/2010 0919

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-171498 Instrument ID: MSO2
Preparation: 5030B Lab File ID: o0020.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/14/2010 1641 Final Weight/Volume: 5 mL
Date Prepared: 06/14/2010 1641

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	94		75 - 120
Dibromofluoromethane	98		75 - 121
Toluene-d8 (Surr)	100		75 - 120

Client: Ashland Inc. Job Number: 680-58386-1

Client Sample ID: **MW46I**

Lab Sample ID: 680-58386-6 Date Sampled: 06/08/2010 0930
Client Matrix: Water Date Received: 06/09/2010 0919

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-171611 Instrument ID: MSO
Preparation: 5030B Lab File ID: o0049.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/15/2010 1325 Final Weight/Volume: 5 mL
Date Prepared: 06/15/2010 1325

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	38		5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	5.0		0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	3.1		0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.6		0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	0.24	J	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-58386-1

Client Sample ID: **MW46I**

Lab Sample ID: 680-58386-6 Date Sampled: 06/08/2010 0930
Client Matrix: Water Date Received: 06/09/2010 0919

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-171611 Instrument ID: MSO
Preparation: 5030B Lab File ID: o0049.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/15/2010 1325 Final Weight/Volume: 5 mL
Date Prepared: 06/15/2010 1325

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	1.6	J	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	96		75 - 120
Dibromofluoromethane	101		75 - 121
Toluene-d8 (Surr)	101		75 - 120

Client: Ashland Inc. Job Number: 680-58386-1

Client Sample ID: **MW45I**

Lab Sample ID: 680-58386-7 Date Sampled: 06/08/2010 1030
Client Matrix: Water Date Received: 06/09/2010 0919

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-171498 Instrument ID: MSO2
Preparation: 5030B Lab File ID: o0032.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/14/2010 1936 Final Weight/Volume: 5 mL
Date Prepared: 06/14/2010 1936

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	0.19	J	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-58386-1

Client Sample ID: **MW45I**

Lab Sample ID: 680-58386-7 Date Sampled: 06/08/2010 1030
Client Matrix: Water Date Received: 06/09/2010 0919

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-171498 Instrument ID: MSO2
Preparation: 5030B Lab File ID: o0032.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/14/2010 1936 Final Weight/Volume: 5 mL
Date Prepared: 06/14/2010 1936

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	95		75 - 120
Dibromofluoromethane	96		75 - 121
Toluene-d8 (Surr)	99		75 - 120

Client: Ashland Inc. Job Number: 680-58386-1

Client Sample ID: **051110 Trip Blank**

Lab Sample ID: 680-58386-8TB Date Sampled: 06/08/2010 0000
Client Matrix: Water Date Received: 06/09/2010 0919

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-171498	Instrument ID:	MSO2
Preparation:	5030B		Lab File ID:	o0022.d
Dilution:	1.0		Initial Weight/Volume:	5 mL
Date Analyzed:	06/14/2010 1710		Final Weight/Volume:	5 mL
Date Prepared:	06/14/2010 1710			

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-58386-1

Client Sample ID: **051110 Trip Blank**

Lab Sample ID: 680-58386-8TB Date Sampled: 06/08/2010 0000
Client Matrix: Water Date Received: 06/09/2010 0919

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-171498	Instrument ID:	MSO2
Preparation:	5030B		Lab File ID:	o0022.d
Dilution:	1.0		Initial Weight/Volume:	5 mL
Date Analyzed:	06/14/2010 1710		Final Weight/Volume:	5 mL
Date Prepared:	06/14/2010 1710			

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	95		75 - 120
Dibromofluoromethane	96		75 - 121
Toluene-d8 (Surr)	101		75 - 120

Client: Ashland Inc. Job Number: 680-58386-1

Client Sample ID: **MW34**

Lab Sample ID: 680-58386-9 Date Sampled: 06/08/2010 1230
Client Matrix: Water Date Received: 06/09/2010 0919

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-171498 Instrument ID: MSO2
Preparation: 5030B Lab File ID: o0034.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/14/2010 2005 Final Weight/Volume: 5 mL
Date Prepared: 06/14/2010 2005

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	0.11	J	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-58386-1

Client Sample ID: **MW34**

Lab Sample ID: 680-58386-9 Date Sampled: 06/08/2010 1230
Client Matrix: Water Date Received: 06/09/2010 0919

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-171498	Instrument ID:	MSO2
Preparation:	5030B		Lab File ID:	o0034.d
Dilution:	1.0		Initial Weight/Volume:	5 mL
Date Analyzed:	06/14/2010 2005		Final Weight/Volume:	5 mL
Date Prepared:	06/14/2010 2005			

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	95		75 - 120
Dibromofluoromethane	95		75 - 121
Toluene-d8 (Surr)	101		75 - 120

Client: Ashland Inc. Job Number: 680-58386-1

Client Sample ID: **MW35D**

Lab Sample ID: 680-58386-10 Date Sampled: 06/08/2010 1525
Client Matrix: Water Date Received: 06/09/2010 0919

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-171498 Instrument ID: MSO2
Preparation: 5030B Lab File ID: o0036.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/14/2010 2034 Final Weight/Volume: 5 mL
Date Prepared: 06/14/2010 2034

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-58386-1

Client Sample ID: **MW35D**

Lab Sample ID: 680-58386-10 Date Sampled: 06/08/2010 1525
Client Matrix: Water Date Received: 06/09/2010 0919

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-171498 Instrument ID: MSO2
Preparation: 5030B Lab File ID: o0036.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/14/2010 2034 Final Weight/Volume: 5 mL
Date Prepared: 06/14/2010 2034

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	93		75 - 120
Dibromofluoromethane	98		75 - 121
Toluene-d8 (Surr)	102		75 - 120

Client: Ashland Inc. Job Number: 680-58386-1

Client Sample ID: **MW31D**

Lab Sample ID: 680-58386-11 Date Sampled: 06/08/2010 1330
Client Matrix: Water Date Received: 06/09/2010 0919

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-171498 Instrument ID: MSO2
Preparation: 5030B Lab File ID: o0038.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/14/2010 2104 Final Weight/Volume: 5 mL
Date Prepared: 06/14/2010 2104

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.6		0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	2.2		0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.8		0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0

Client: Ashland Inc. Job Number: 680-58386-1

Client Sample ID: **MW31D**

Lab Sample ID: 680-58386-11 Date Sampled: 06/08/2010 1330
Client Matrix: Water Date Received: 06/09/2010 0919

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-171498 Instrument ID: MSO2
Preparation: 5030B Lab File ID: o0038.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 06/14/2010 2104 Final Weight/Volume: 5 mL
Date Prepared: 06/14/2010 2104

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	95		75 - 120
Dibromofluoromethane	97		75 - 121
Toluene-d8 (Surr)	100		75 - 120

Client: Ashland Inc. Job Number: 680-58386-1

Client Sample ID: **MW28D**

Lab Sample ID: 680-58386-12 Date Sampled: 06/08/2010 1620
Client Matrix: Water Date Received: 06/09/2010 0919

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-171499 Instrument ID: MSO
Preparation: 5030B Lab File ID: o0037.d
Dilution: 20 Initial Weight/Volume: 5 mL
Date Analyzed: 06/14/2010 2049 Final Weight/Volume: 5 mL
Date Prepared: 06/14/2010 2049

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	500	U	100	500
Acetonitrile	800	U	200	800
Acrolein	400	U	150	400
Acrylonitrile	400	U	140	400
Benzene	1200		5.0	20
Bromoform	20	U	10	20
Bromomethane	20	U	16	20
2-Butanone (MEK)	200	U	20	200
Carbon disulfide	40	U	12	40
Carbon tetrachloride	20	U	10	20
Chlorobenzene	2000		5.0	20
2-Chloro-1,3-butadiene	20	U	6.0	20
Chlorodibromomethane	20	U	2.0	20
Chloroethane	20	U	20	20
Chloroform	21000	E	2.8	20
Chloromethane	20	U	6.6	20
3-Chloro-1-propene	20	U	4.0	20
cis-1,3-Dichloropropene	20	U	2.2	20
1,2-Dibromo-3-Chloropropane	20	U	8.8	20
Dibromomethane	20	U	4.0	20
Dichlorobromomethane	20	U	5.0	20
Dichlorodifluoromethane	20	U	5.0	20
1,1-Dichloroethane	20	U	5.0	20
1,2-Dichloroethane	20	U	2.0	20
1,1-Dichloroethene	20	U	2.2	20
1,2-Dichloropropane	20	U	2.6	20
Ethylbenzene	8.4	J	2.2	20
Ethylene Dibromide	20	U	5.0	20
Ethyl methacrylate	20	U	5.0	20
2-Hexanone	200	U	20	200
Iodomethane	100	U	20	100
Isobutyl alcohol	800	U	220	800
Methacrylonitrile	400	U	66	400
Methylene Chloride	3600		20	100
Methyl methacrylate	20	U	9.6	20
4-Methyl-2-pentanone (MIBK)	200	U	20	200
Pentachloroethane	100	U	24	100
Propionitrile	400	U	92	400
Styrene	20	U	2.2	20
1,1,1,2-Tetrachloroethane	20	U	6.6	20
1,1,2,2-Tetrachloroethane	20	U	3.6	20
Tetrachloroethene	15	J	3.0	20
Toluene	88		6.6	20
trans-1,4-Dichloro-2-butene	40	U	10	40
trans-1,2-Dichloroethene	20	U	4.0	20
trans-1,3-Dichloropropene	20	U	4.2	20

Client: Ashland Inc. Job Number: 680-58386-1

Client Sample ID: **MW28D**

Lab Sample ID: 680-58386-12 Date Sampled: 06/08/2010 1620
Client Matrix: Water Date Received: 06/09/2010 0919

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-171499 Instrument ID: MSO
Preparation: 5030B Lab File ID: o0037.d
Dilution: 20 Initial Weight/Volume: 5 mL
Date Analyzed: 06/14/2010 2049 Final Weight/Volume: 5 mL
Date Prepared: 06/14/2010 2049

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	20	U	10	20
1,1,2-Trichloroethane	20	U	2.6	20
Trichloroethene	20	U	2.6	20
Trichlorofluoromethane	20	U	5.0	20
1,2,3-Trichloropropane	20	U	8.2	20
Vinyl acetate	40	U	5.6	40
Vinyl chloride	7.2	J	3.6	20
Xylenes, Total	37	J	4.0	40

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	97		75 - 120
Dibromofluoromethane	93		75 - 121
Toluene-d8 (Surr)	104		75 - 120

Client: Ashland Inc. Job Number: 680-58386-1

Client Sample ID: **MW28D**

Lab Sample ID: 680-58386-12 Date Sampled: 06/08/2010 1620
Client Matrix: Water Date Received: 06/09/2010 0919

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-171611		Instrument ID:	MSO
Preparation:	5030B			Lab File ID:	o0051.d
Dilution:	200			Initial Weight/Volume:	5 mL
Date Analyzed:	06/15/2010 1354	Run Type: DL		Final Weight/Volume:	5 mL
Date Prepared:	06/15/2010 1354				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	5000	U	1000	5000
Acetonitrile	8000	U	2000	8000
Acrolein	4000	U	1500	4000
Acrylonitrile	4000	U	1400	4000
Benzene	1100	D	50	200
Bromoform	200	U	100	200
Bromomethane	200	U	160	200
2-Butanone (MEK)	2000	U	200	2000
Carbon disulfide	400	U	120	400
Carbon tetrachloride	200	U	100	200
Chlorobenzene	1800	D	50	200
2-Chloro-1,3-butadiene	200	U	60	200
Chlorodibromomethane	200	U	20	200
Chloroethane	200	U	200	200
Chloroform	15000	D	28	200
Chloromethane	200	U	66	200
3-Chloro-1-propene	200	U	40	200
cis-1,3-Dichloropropene	200	U	22	200
1,2-Dibromo-3-Chloropropane	200	U	88	200
Dibromomethane	200	U	40	200
Dichlorobromomethane	200	U	50	200
Dichlorodifluoromethane	200	U	50	200
1,1-Dichloroethane	200	U	50	200
1,2-Dichloroethane	200	U	20	200
1,1-Dichloroethene	200	U	22	200
1,2-Dichloropropane	200	U	26	200
Ethylbenzene	200	U	22	200
Ethylene Dibromide	200	U	50	200
Ethyl methacrylate	200	U	50	200
2-Hexanone	2000	U	200	2000
Iodomethane	1000	U	200	1000
Isobutyl alcohol	8000	U	2200	8000
Methacrylonitrile	4000	U	660	4000
Methylene Chloride	9200	D	200	1000
Methyl methacrylate	200	U	96	200
4-Methyl-2-pentanone (MIBK)	2000	U	200	2000
Pentachloroethane	1000	U	240	1000
Propionitrile	4000	U	920	4000
Styrene	200	U	22	200
1,1,1,2-Tetrachloroethane	200	U	66	200
1,1,2,2-Tetrachloroethane	200	U	36	200
Tetrachloroethene	200	U	30	200
Toluene	110	J D	66	200
trans-1,4-Dichloro-2-butene	400	U	100	400
trans-1,2-Dichloroethene	200	U	40	200
trans-1,3-Dichloropropene	200	U	42	200

Client: Ashland Inc. Job Number: 680-58386-1

Client Sample ID: **MW28D**

Lab Sample ID: 680-58386-12 Date Sampled: 06/08/2010 1620
Client Matrix: Water Date Received: 06/09/2010 0919

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-171611		Instrument ID:	MSO
Preparation:	5030B			Lab File ID:	o0051.d
Dilution:	200			Initial Weight/Volume:	5 mL
Date Analyzed:	06/15/2010 1354	Run Type: DL		Final Weight/Volume:	5 mL
Date Prepared:	06/15/2010 1354				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	200	U	100	200
1,1,2-Trichloroethane	200	U	26	200
Trichloroethene	200	U	26	200
Trichlorofluoromethane	200	U	50	200
1,2,3-Trichloropropane	200	U	82	200
Vinyl acetate	400	U	56	400
Vinyl chloride	200	U	36	200
Xylenes, Total	400	U	40	400

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	97		75 - 120
Dibromofluoromethane	99		75 - 121
Toluene-d8 (Surr)	102		75 - 120

Client: Ashland Inc. Job Number: 680-58386-1

Client Sample ID: **EB(4)**

Lab Sample ID: 680-58386-1EB Date Sampled: 06/07/2010 1730
Client Matrix: Water Date Received: 06/09/2010 0919

8081A_8082 Organochlorine Pesticides & PCBs (GC)

Method:	8081A_8082	Analysis Batch: 680-171403		Instrument ID:	SGM
Preparation:	3520C	Prep Batch: 680-171149		Initial Weight/Volume:	1060 mL
Dilution:	1.0			Final Weight/Volume:	10 mL
Date Analyzed:	06/12/2010 0510			Injection Volume:	2 uL
Date Prepared:	06/10/2010 1425			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Total	1.8	J	0.47	4.7

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	42		14 - 115
Tetrachloro-m-xylene	69		35 - 120

Client: Ashland Inc. Job Number: 680-58386-1

Client Sample ID: **EB(5)**

Lab Sample ID: 680-58386-2EB Date Sampled: 06/07/2010 1800
Client Matrix: Water Date Received: 06/09/2010 0919

8081A_8082 Organochlorine Pesticides & PCBs (GC)

Method:	8081A_8082	Analysis Batch: 680-171403		Instrument ID:	SGM
Preparation:	3520C	Prep Batch: 680-171149		Initial Weight/Volume:	1030 mL
Dilution:	1.0			Final Weight/Volume:	10 mL
Date Analyzed:	06/12/2010 0529			Injection Volume:	2 uL
Date Prepared:	06/10/2010 1425			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Total	2.1	J	0.49	4.9

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	72		14 - 115
Tetrachloro-m-xylene	87		35 - 120

Client: Ashland Inc. Job Number: 680-58386-1

Client Sample ID: **MW46I**

Lab Sample ID: 680-58386-6 Date Sampled: 06/08/2010 0930
Client Matrix: Water Date Received: 06/09/2010 0919

8081A_8082 Organochlorine Pesticides & PCBs (GC)

Method:	8081A_8082	Analysis Batch: 680-171403		Instrument ID:	SGM
Preparation:	3520C	Prep Batch: 680-171149		Initial Weight/Volume:	1060 mL
Dilution:	1.0			Final Weight/Volume:	10 mL
Date Analyzed:	06/12/2010 0549			Injection Volume:	2 uL
Date Prepared:	06/10/2010 1425			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Total	1.5	J	0.47	4.7

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	11	X	14 - 115
Tetrachloro-m-xylene	110		35 - 120

Client: Ashland Inc. Job Number: 680-58386-1

Client Sample ID: **MW45I**

Lab Sample ID: 680-58386-7 Date Sampled: 06/08/2010 1030
Client Matrix: Water Date Received: 06/09/2010 0919

8081A_8082 Organochlorine Pesticides & PCBs (GC)

Method:	8081A_8082	Analysis Batch: 680-171403		Instrument ID:	SGM
Preparation:	3520C	Prep Batch: 680-171149		Initial Weight/Volume:	1030 mL
Dilution:	1.0			Final Weight/Volume:	10 mL
Date Analyzed:	06/12/2010 0608			Injection Volume:	2 uL
Date Prepared:	06/10/2010 1425			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Total	4.9	U	0.49	4.9

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	37		14 - 115
Tetrachloro-m-xylene	381	E X	35 - 120

Client: Ashland Inc. Job Number: 680-58386-1

Client Sample ID: **MW35D**

Lab Sample ID: 680-58386-10 Date Sampled: 06/08/2010 1525
Client Matrix: Water Date Received: 06/09/2010 0919

8081A_8082 Organochlorine Pesticides & PCBs (GC)

Method:	8081A_8082	Analysis Batch: 680-171403		Instrument ID:	SGM
Preparation:	3520C	Prep Batch: 680-171149		Initial Weight/Volume:	500 mL
Dilution:	1.0			Final Weight/Volume:	5 mL
Date Analyzed:	06/12/2010 0627			Injection Volume:	2 uL
Date Prepared:	06/10/2010 1425			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Total	5.0	U	0.50	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	34		14 - 115
Tetrachloro-m-xylene	74		35 - 120

Client: Ashland Inc. Job Number: 680-58386-1

Client Sample ID: **EB(4)**

Lab Sample ID: 680-58386-1EB Date Sampled: 06/07/2010 1730
Client Matrix: Water Date Received: 06/09/2010 0919

8081B/8082A Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Method:	8081B/8082A	Analysis Batch: 680-171402		Instrument ID:	SGM
Preparation:	3520C	Prep Batch: 680-171149		Initial Weight/Volume:	1060 mL
Dilution:	1.0			Final Weight/Volume:	10 mL
Date Analyzed:	06/12/2010 0510			Injection Volume:	2 uL
Date Prepared:	06/10/2010 1425			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Technical	4.7	U	0.47	4.7

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	34		14 - 115
Tetrachloro-m-xylene	60		35 - 120

Client: Ashland Inc. Job Number: 680-58386-1

Client Sample ID: **EB(4)**

Lab Sample ID: 680-58386-1EB Date Sampled: 06/07/2010 1730
Client Matrix: Water Date Received: 06/09/2010 0919

8081B/8082A Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Method:	8081B/8082A	Analysis Batch: 680-171402		Instrument ID:	SGM
Preparation:	3520C	Prep Batch: 680-171149		Initial Weight/Volume:	1060 mL
Dilution:	1.0			Final Weight/Volume:	10 mL
Date Analyzed:	06/12/2010 0510			Injection Volume:	2 uL
Date Prepared:	06/10/2010 1425			Result Type:	SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	30		14 - 115
Tetrachloro-m-xylene	48		35 - 120

Client: Ashland Inc. Job Number: 680-58386-1

Client Sample ID: **EB(5)**

Lab Sample ID: 680-58386-2EB Date Sampled: 06/07/2010 1800
Client Matrix: Water Date Received: 06/09/2010 0919

8081B/8082A Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Method:	8081B/8082A	Analysis Batch: 680-171402		Instrument ID:	SGM
Preparation:	3520C	Prep Batch: 680-171149		Initial Weight/Volume:	1030 mL
Dilution:	1.0			Final Weight/Volume:	10 mL
Date Analyzed:	06/12/2010 0529			Injection Volume:	2 uL
Date Prepared:	06/10/2010 1425			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Technical	4.9	U	0.49	4.9

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	47		14 - 115
Tetrachloro-m-xylene	64		35 - 120

Client: Ashland Inc. Job Number: 680-58386-1

Client Sample ID: **EB(5)**

Lab Sample ID: 680-58386-2EB Date Sampled: 06/07/2010 1800
Client Matrix: Water Date Received: 06/09/2010 0919

8081B/8082A Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Method:	8081B/8082A	Analysis Batch: 680-171402		Instrument ID:	SGM
Preparation:	3520C	Prep Batch: 680-171149		Initial Weight/Volume:	1030 mL
Dilution:	1.0			Final Weight/Volume:	10 mL
Date Analyzed:	06/12/2010 0529			Injection Volume:	2 uL
Date Prepared:	06/10/2010 1425			Result Type:	SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	47		14 - 115
Tetrachloro-m-xylene	63		35 - 120

Client: Ashland Inc. Job Number: 680-58386-1

Client Sample ID: **MW46I**

Lab Sample ID: 680-58386-6 Date Sampled: 06/08/2010 0930
Client Matrix: Water Date Received: 06/09/2010 0919

8081B/8082A Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Method:	8081B/8082A	Analysis Batch: 680-171402		Instrument ID:	SGM
Preparation:	3520C	Prep Batch: 680-171149		Initial Weight/Volume:	1060 mL
Dilution:	1.0			Final Weight/Volume:	10 mL
Date Analyzed:	06/12/2010 0549			Injection Volume:	2 uL
Date Prepared:	06/10/2010 1425			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Technical	4.7	U	0.47	4.7

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	15		14 - 115
Tetrachloro-m-xylene	97	p	35 - 120

Client: Ashland Inc. Job Number: 680-58386-1

Client Sample ID: **MW46I**

Lab Sample ID: 680-58386-6 Date Sampled: 06/08/2010 0930
Client Matrix: Water Date Received: 06/09/2010 0919

8081B/8082A Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Method:	8081B/8082A	Analysis Batch: 680-171402		Instrument ID:	SGM
Preparation:	3520C	Prep Batch: 680-171149		Initial Weight/Volume:	1060 mL
Dilution:	1.0			Final Weight/Volume:	10 mL
Date Analyzed:	06/12/2010 0549			Injection Volume:	2 uL
Date Prepared:	06/10/2010 1425			Result Type:	SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	11	X	14 - 115
Tetrachloro-m-xylene	205	X	35 - 120

Client: Ashland Inc. Job Number: 680-58386-1

Client Sample ID: **MW45I**

Lab Sample ID: 680-58386-7 Date Sampled: 06/08/2010 1030
Client Matrix: Water Date Received: 06/09/2010 0919

8081B/8082A Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Method:	8081B/8082A	Analysis Batch: 680-171402		Instrument ID:	SGM
Preparation:	3520C	Prep Batch: 680-171149		Initial Weight/Volume:	1030 mL
Dilution:	1.0			Final Weight/Volume:	10 mL
Date Analyzed:	06/12/2010 0608			Injection Volume:	2 uL
Date Prepared:	06/10/2010 1425			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Technical	4.9	U	0.49	4.9

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	37		14 - 115
Tetrachloro-m-xylene	80	p	35 - 120

Client: Ashland Inc. Job Number: 680-58386-1

Client Sample ID: **MW45I**

Lab Sample ID: 680-58386-7 Date Sampled: 06/08/2010 1030
Client Matrix: Water Date Received: 06/09/2010 0919

8081B/8082A Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Method:	8081B/8082A	Analysis Batch: 680-171402		Instrument ID:	SGM
Preparation:	3520C	Prep Batch: 680-171149		Initial Weight/Volume:	1030 mL
Dilution:	1.0			Final Weight/Volume:	10 mL
Date Analyzed:	06/12/2010 0608			Injection Volume:	2 uL
Date Prepared:	06/10/2010 1425			Result Type:	SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	30		14 - 115
Tetrachloro-m-xylene	381	E X	35 - 120

Client: Ashland Inc. Job Number: 680-58386-1

Client Sample ID: **MW35D**

Lab Sample ID: 680-58386-10 Date Sampled: 06/08/2010 1525
Client Matrix: Water Date Received: 06/09/2010 0919

8081B/8082A Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Method:	8081B/8082A	Analysis Batch: 680-171402		Instrument ID:	SGM
Preparation:	3520C	Prep Batch: 680-171149		Initial Weight/Volume:	500 mL
Dilution:	1.0			Final Weight/Volume:	5 mL
Date Analyzed:	06/12/2010 0627			Injection Volume:	2 uL
Date Prepared:	06/10/2010 1425			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Technical	5.0	U	0.50	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	24		14 - 115
Tetrachloro-m-xylene	52		35 - 120

Client: Ashland Inc. Job Number: 680-58386-1

Client Sample ID: **MW35D**

Lab Sample ID: 680-58386-10 Date Sampled: 06/08/2010 1525
Client Matrix: Water Date Received: 06/09/2010 0919

8081B/8082A Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Method:	8081B/8082A	Analysis Batch: 680-171402		Instrument ID:	SGM
Preparation:	3520C	Prep Batch: 680-171149		Initial Weight/Volume:	500 mL
Dilution:	1.0			Final Weight/Volume:	5 mL
Date Analyzed:	06/12/2010 0627			Injection Volume:	2 uL
Date Prepared:	06/10/2010 1425			Result Type:	SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	22		14 - 115
Tetrachloro-m-xylene	46		35 - 120

Client: Ashland Inc. Job Number: 680-58386-1

Client Sample ID: **EB(4)**

Lab Sample ID: 680-58386-1EB Date Sampled: 06/07/2010 1730
Client Matrix: Water Date Received: 06/09/2010 0919

6010B Metals (ICP)-Total Recoverable

Method:	6010B	Analysis Batch: 680-171623		Instrument ID:	ICPD
Preparation:	3005A	Prep Batch: 680-171282		Lab File ID:	061510.chr
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	06/15/2010 1801			Final Weight/Volume:	50 mL
Date Prepared:	06/11/2010 1157				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	20	U	5.2	20
Arsenic	20	U	10	20
Barium	13		2.0	10
Beryllium	4.0	U	0.10	4.0
Cadmium	5.0	U	2.0	5.0
Chromium	10	U	2.0	10
Cobalt	10	U	1.0	10
Copper	20	U	5.0	20
Lead	10	U	3.4	10
Nickel	40	U	4.0	40
Selenium	20	U	6.4	20
Silver	10	U	0.97	10
Thallium	25	U	8.7	25
Tin	50	U	5.4	50
Vanadium	10	U	3.0	10
Zinc	20	U	6.3	20

7470A Mercury (CVAA)

Method:	7470A	Analysis Batch: 680-172022		Instrument ID:	LEEMAN1
Preparation:	7470A	Prep Batch: 680-171597		Lab File ID:	b061810.chr
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	06/18/2010 1607			Final Weight/Volume:	50 mL
Date Prepared:	06/15/2010 1526				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.091	0.20

Client: Ashland Inc. Job Number: 680-58386-1

Client Sample ID: **EB(5)**

Lab Sample ID: 680-58386-2EB Date Sampled: 06/07/2010 1800
Client Matrix: Water Date Received: 06/09/2010 0919

6010B Metals (ICP)-Total Recoverable

Method:	6010B	Analysis Batch: 680-171623		Instrument ID:	ICPD
Preparation:	3005A	Prep Batch: 680-171282		Lab File ID:	061510.chr
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	06/15/2010 1810			Final Weight/Volume:	50 mL
Date Prepared:	06/11/2010 1157				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	20	U	5.2	20
Arsenic	20	U	10	20
Barium	13		2.0	10
Beryllium	4.0	U	0.10	4.0
Cadmium	5.0	U	2.0	5.0
Chromium	10	U	2.0	10
Cobalt	10	U	1.0	10
Copper	20	U	5.0	20
Lead	10	U	3.4	10
Nickel	40	U	4.0	40
Selenium	20	U	6.4	20
Silver	10	U	0.97	10
Thallium	25	U	8.7	25
Tin	50	U	5.4	50
Vanadium	10	U	3.0	10
Zinc	6.8	J	6.3	20

7470A Mercury (CVAA)

Method:	7470A	Analysis Batch: 680-172022		Instrument ID:	LEEMAN1
Preparation:	7470A	Prep Batch: 680-171597		Lab File ID:	b061810.chr
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	06/18/2010 1609			Final Weight/Volume:	50 mL
Date Prepared:	06/15/2010 1526				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.091	0.20

Client: Ashland Inc. Job Number: 680-58386-1

Client Sample ID: **MW46I**

Lab Sample ID: 680-58386-6 Date Sampled: 06/08/2010 0930
Client Matrix: Water Date Received: 06/09/2010 0919

6010B Metals (ICP)-Total Recoverable

Method:	6010B	Analysis Batch: 680-171623		Instrument ID:	ICPD
Preparation:	3005A	Prep Batch: 680-171282		Lab File ID:	061510.chr
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	06/15/2010 1816			Final Weight/Volume:	50 mL
Date Prepared:	06/11/2010 1157				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	20	U	5.2	20
Arsenic	20	U	10	20
Barium	100		2.0	10
Beryllium	3.4	J	0.10	4.0
Cadmium	5.0	U	2.0	5.0
Chromium	96		2.0	10
Cobalt	1.5	J	1.0	10
Copper	20	U	5.0	20
Lead	10	U	3.4	10
Nickel	9.6	J	4.0	40
Selenium	20	U	6.4	20
Silver	10	U	0.97	10
Thallium	25	U	8.7	25
Tin	50	U	5.4	50
Vanadium	59		3.0	10
Zinc	19	J	6.3	20

7470A Mercury (CVAA)

Method:	7470A	Analysis Batch: 680-172022		Instrument ID:	LEEMAN1
Preparation:	7470A	Prep Batch: 680-171597		Lab File ID:	b061810.chr
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	06/18/2010 1619			Final Weight/Volume:	50 mL
Date Prepared:	06/15/2010 1526				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.091	0.20

Client: Ashland Inc. Job Number: 680-58386-1

Client Sample ID: **MW45I**

Lab Sample ID: 680-58386-7 Date Sampled: 06/08/2010 1030
Client Matrix: Water Date Received: 06/09/2010 0919

6010B Metals (ICP)-Total Recoverable

Method:	6010B	Analysis Batch: 680-171623		Instrument ID:	ICPD
Preparation:	3005A	Prep Batch: 680-171282		Lab File ID:	061510.chr
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	06/15/2010 1821			Final Weight/Volume:	50 mL
Date Prepared:	06/11/2010 1157				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	20	U	5.2	20
Arsenic	20	U	10	20
Barium	53		2.0	10
Beryllium	0.75	J	0.10	4.0
Cadmium	5.0	U	2.0	5.0
Chromium	23		2.0	10
Cobalt	10	U	1.0	10
Copper	20	U	5.0	20
Lead	10	U	3.4	10
Nickel	40	U	4.0	40
Selenium	20	U	6.4	20
Silver	10	U	0.97	10
Thallium	25	U	8.7	25
Tin	50	U	5.4	50
Vanadium	6.7	J	3.0	10
Zinc	7.4	J	6.3	20

7470A Mercury (CVAA)

Method:	7470A	Analysis Batch: 680-172022		Instrument ID:	LEEMAN1
Preparation:	7470A	Prep Batch: 680-171597		Lab File ID:	b061810.chr
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	06/18/2010 1622			Final Weight/Volume:	50 mL
Date Prepared:	06/15/2010 1526				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.091	0.20

DATA REPORTING QUALIFIERS

Client: Ashland Inc. Job Number: 680-58386-1

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Indicates the analyte was analyzed for but not detected.
	E	Result exceeded calibration range.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
GC Semi VOA		
	U	Indicates the analyte was analyzed for but not detected.
	E	Result exceeded calibration range.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	X	Surrogate is outside control limits
	p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
Metals		
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

QUALITY CONTROL RESULTS

Client: Ashland Inc. Job Number: 680-58386-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:680-171498					
LCS 680-171498/4	Lab Control Sample	T	Water	8260B	
LCSD 680-171498/5	Lab Control Sample Duplicate	T	Water	8260B	
MB 680-171498/11	Method Blank	T	Water	8260B	
680-58386-1EB	EB(4)	T	Water	8260B	
680-58386-2EB	EB(5)	T	Water	8260B	
680-58386-3FB	FB(MW24D)	T	Water	8260B	
680-58386-4FB	FB(MW44)	T	Water	8260B	
680-58386-5FB	FB(MW48)	T	Water	8260B	
680-58386-7	MW45I	T	Water	8260B	
680-58386-8TB	051110 Trip Blank	T	Water	8260B	
680-58386-9	MW34	T	Water	8260B	
680-58386-10	MW35D	T	Water	8260B	
680-58386-11	MW31D	T	Water	8260B	
Analysis Batch:680-171499					
LCS 680-171499/6	Lab Control Sample	T	Water	8260B	
LCSD 680-171499/7	Lab Control Sample Duplicate	T	Water	8260B	
MB 680-171499/9	Method Blank	T	Water	8260B	
680-58386-12	MW28D	T	Water	8260B	
Analysis Batch:680-171611					
LCS 680-171611/5	Lab Control Sample	T	Water	8260B	
LCSD 680-171611/6	Lab Control Sample Duplicate	T	Water	8260B	
MB 680-171611/8	Method Blank	T	Water	8260B	
680-58386-6	MW46I	T	Water	8260B	
680-58386-12DL	MW28D	T	Water	8260B	

Report Basis
T = Total

Client: Ashland Inc. Job Number: 680-58386-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 680-171149					
LCS 680-171149/25-A	Lab Control Sample	T	Water	3520C	
LCSD 680-171149/26-A	Lab Control Sample Duplicate	T	Water	3520C	
MB 680-171149/16-A	Method Blank	T	Water	3520C	
680-58386-1EB	EB(4)	T	Water	3520C	
680-58386-2EB	EB(5)	T	Water	3520C	
680-58386-6	MW46I	T	Water	3520C	
680-58386-7	MW45I	T	Water	3520C	
680-58386-10	MW35D	T	Water	3520C	
680-58386-10MS	Matrix Spike	T	Water	3520C	
680-58386-10MSD	Matrix Spike Duplicate	T	Water	3520C	
Analysis Batch:680-171402					
LCS 680-171149/25-A	Lab Control Sample	T	Water	8081B/8082A	680-171149
LCSD 680-171149/26-A	Lab Control Sample Duplicate	T	Water	8081B/8082A	680-171149
MB 680-171149/16-A	Method Blank	T	Water	8081B/8082A	680-171149
680-58386-1EB	EB(4)	T	Water	8081B/8082A	680-171149
680-58386-2EB	EB(5)	T	Water	8081B/8082A	680-171149
680-58386-6	MW46I	T	Water	8081B/8082A	680-171149
680-58386-7	MW45I	T	Water	8081B/8082A	680-171149
680-58386-10	MW35D	T	Water	8081B/8082A	680-171149
680-58386-10MS	Matrix Spike	T	Water	8081B/8082A	680-171149
680-58386-10MSD	Matrix Spike Duplicate	T	Water	8081B/8082A	680-171149
Analysis Batch:680-171403					
LCS 680-171149/25-A	Lab Control Sample	T	Water	8081A_8082	680-171149
LCSD 680-171149/26-A	Lab Control Sample Duplicate	T	Water	8081A_8082	680-171149
MB 680-171149/16-A	Method Blank	T	Water	8081A_8082	680-171149
680-58386-1EB	EB(4)	T	Water	8081A_8082	680-171149
680-58386-2EB	EB(5)	T	Water	8081A_8082	680-171149
680-58386-6	MW46I	T	Water	8081A_8082	680-171149
680-58386-7	MW45I	T	Water	8081A_8082	680-171149
680-58386-10	MW35D	T	Water	8081A_8082	680-171149
680-58386-10MS	Matrix Spike	T	Water	8081A_8082	680-171149
680-58386-10MSD	Matrix Spike Duplicate	T	Water	8081A_8082	680-171149

Report Basis

T = Total

Client: Ashland Inc. Job Number: 680-58386-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 680-171282					
LCS 680-171282/22-A	Lab Control Sample	R	Water	3005A	
MB 680-171282/21-A	Method Blank	R	Water	3005A	
680-58386-1EB	EB(4)	R	Water	3005A	
680-58386-2EB	EB(5)	R	Water	3005A	
680-58386-6	MW46I	R	Water	3005A	
680-58386-7	MW45I	R	Water	3005A	
Prep Batch: 680-171597					
LCS 680-171597/22-A	Lab Control Sample	T	Water	7470A	
MB 680-171597/21-A	Method Blank	T	Water	7470A	
680-58386-1EB	EB(4)	T	Water	7470A	
680-58386-2EB	EB(5)	T	Water	7470A	
680-58386-6	MW46I	T	Water	7470A	
680-58386-7	MW45I	T	Water	7470A	
Analysis Batch:680-171623					
LCS 680-171282/22-A	Lab Control Sample	R	Water	6010B	680-171282
MB 680-171282/21-A	Method Blank	R	Water	6010B	680-171282
680-58386-1EB	EB(4)	R	Water	6010B	680-171282
680-58386-2EB	EB(5)	R	Water	6010B	680-171282
680-58386-6	MW46I	R	Water	6010B	680-171282
680-58386-7	MW45I	R	Water	6010B	680-171282
Analysis Batch:680-172022					
LCS 680-171597/22-A	Lab Control Sample	T	Water	7470A	680-171597
MB 680-171597/21-A	Method Blank	T	Water	7470A	680-171597
680-58386-1EB	EB(4)	T	Water	7470A	680-171597
680-58386-2EB	EB(5)	T	Water	7470A	680-171597
680-58386-6	MW46I	T	Water	7470A	680-171597
680-58386-7	MW45I	T	Water	7470A	680-171597

Report Basis
R = Total Recoverable
T = Total

Client: Ashland Inc. Job Number: 680-58386-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	BFB %Rec	DBFM %Rec	TOL %Rec
680-58386-1	EB(4)	93	L6	101
680-58386-2	EB(5)	93	98	99
680-58386-3	FB(MW24D)	93	98	99
680-58386-4	FB(MW44)	93	98	101
680-58386-5	FB(MW48)	94	98	100
680-58386-6	MW46I	96	101	101
680-58386-7	MW45I	95	96	99
680-58386-8	051110 Trip Blank	95	96	101
680-58386-9	MW34	95	95	101
680-58386-10	MW35D	93	98	102
680-58386-11	MW31D	95	97	100
680-58386-12	MW28D	97	93	104
680-58386-12 DL	MW28D DL	97	99	102
MB 680-171498/11		94	97	100
MB 680-171499/9		98	100	103
MB 680-171611/8		95	103	104
LCS 680-171498/4		99	101	96
LCS 680-171499/6		101	105	99
LCS 680-171611/5		97	103	101
LCSD 680-171498/5		99	101	97
LCSD 680-171499/7		102	103	100
LCSD 680-171611/6		98	102	98

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene	75-120
DBFM = Dibromofluoromethane	75-121
TOL = Toluene-d8 (Surr)	75-120

Client: Ashland Inc.

Job Number: 680-58386-1

Surrogate Recovery Report

8081A_8082_Organochlorine Pesticides & PCBs (GC)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCB1 %Rec	TCX1 %Rec
680-58386-1	EB(4)	42	69
680-58386-2	EB(5)	72	87
680-58386-6	MW46I	11X	110
680-58386-7	MW45I	37	381E X
680-58386-10	MW35D	34	74
MB 680-171149/16-A		58	66
LCS 680-171149/25-A		62	71
LCSD 680-171149/26-A		66	66
680-58386-10 MS	MW35D MS	35	59
680-58386-10 MSD	MW35D MSD	40	71

Surrogate	Acceptance Limits
DCB = DCB Decachlorobiphenyl	14-115
TCX = Tetrachloro-m-xylene	35-120

Client: Ashland Inc. Job Number: 680-58386-1

Surrogate Recovery Report

8081B/8082A Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCB1 %Rec	MoW2 %Rec	TCX1 %Rec	TCX2 %Rec
680-58386-1	EB(4)	34	30	60	48
680-58386-2	EB(5)	47	47	64	63
680-58386-6	MW46I	11X	15	97p	205X
680-58386-7	MW45I	37	30	381E X	80p
680-58386-10	MW35D	24	22	52	46
MB 680-171149/16-A		62	56	76	76
LCS 680-171149/25-A		61	62	70	77
LCSD 680-171149/26-A		64	59	67	67
680-58386-10 MS	MW35D MS	30	25	46	55
680-58386-10 MSD	MW35D MSD	31	21p	50	47

Surrogate	Acceptance Limits
DCB = DCB Decachlorobiphenyl	14-115
TCX = Tetrachloro-m-xylene	35-120

Client: Ashland Inc. Job Number: 680-58386-1

Method Blank - Batch: 680-171498

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-171498/11
Client Matrix: W0mA
Dilution: 1.0
Date Analyzed: 06/14/2010 1413
Date Prepared: 06/14/2010 1413

Analysis Batch: 680-171498
Prep Batch: N/A
Units: ug/L

Instrument ID: MSO2
Lab File ID: oq032.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0

Client: Ashland Inc.

Job Number: 680-58386-1

Method Blank - Batch: 680-171498

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-171498/11
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/14/2010 1413
Date Prepared: 06/14/2010 1413

Analysis Batch: 680-171498
Prep Batch: N/A
Units: ug/L

Instrument ID: MSO2
Lab File ID: oq032.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	94	75 - 120
Dibromofluoromethane	97	75 - 121
Toluene-d8 (Surr)	100	75 - 120

Client: Ashland Inc. Job Number: 680-58386-1

Lab Control Sample/
Lab Control SamPle DuPlicate Recovery RePort - Batch: 680-171498

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 680-171498/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/14/2010 1216
Date Prepared: 06/14/2010 1216

Analysis Batch: 680-171498
Prep Batch: N/A
Units: ug/L

Instrument ID: MSO2
Lab File ID: oq024.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

LCSD Lab Sample ID: LCSD 680-171498/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/14/2010 1245
Date Prepared: 06/14/2010 1245

Analysis Batch: 680-171498
Prep Batch: N/A
Units: ug/L

Instrument ID: MSO2
Lab File ID: oq026.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	109	111	17 - 175	2	50		
Benzene	99	100	77 - 119	1	30		
Bromoform	103	103	62 - 133	0	30		
Bromomethane	85	86	12 - 184	1	50		
2-Butanone (MEK)	105	106	33 - 157	1	30		
Carbon disulfide	105	103	55 - 131	2	30		
Carbon tetrachloride	102	101	71 - 135	2	30		
Chlorobenzene	96	97	85 - 116	1	30		
Chlorodibromomethane	104	104	75 - 133	1	30		
Chloroethane	86	82	40 - 165	5	50		
Chloroform	101	101	82 - 120	0	30		
Chloromethane	79	80	48 - 142	1	50		
cis-1,3-Dichloropropene	102	102	76 - 126	1	30		
1,2-Dibromo-3-Chloropropane	111	113	49 - 140	2	30		
Dibromomethane	98	96	78 - 119	1	30		
Dichlorobromomethane	100	100	78 - 127	0	30		
Dichlorodifluoromethane	101	101	34 - 154	0	30		
1,1-Dichloroethane	102	103	74 - 127	0	30		
1,2-Dichloroethane	95	98	66 - 132	4	30		
1,1-Dichloroethene	106	103	62 - 141	2	30		
1,2-Dichloropropane	98	100	73 - 124	2	30		
Ethylbenzene	101	99	86 - 116	2	30		
Ethylene Dibromide	100	103	80 - 121	2	30		
2-Hexanone	109	111	34 - 161	2	30		
Methylene Chloride	100	100	70 - 125	0	30		
4-Methyl-2-pentanone (MIBK)	102	104	40 - 151	2	30		
Styrene	99	99	82 - 122	0	30		
1,1,1,2-Tetrachloroethane	99	99	81 - 128	1	30		
1,1,2,2-Tetrachloroethane	101	99	69 - 129	2	30		
Tetrachloroethene	99	98	76 - 126	2	30		
Toluene	101	101	81 - 117	1	30		
trans-1,2-Dichloroethene	100	99	72 - 131	1	30		
trans-1,3-Dichloropropene	107	107	73 - 128	0	30		
1,1,1-Trichloroethane	103	102	76 - 127	1	30		

Client: Ashland Inc. Job Number: 680-58386-1

Lab Control Sample/
Lab Control SamPle DuPlicate Recovery RePort - Batch: 680-171498

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-171498/4	Analysis Batch:	680-171498	Instrument ID:	MSO2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	oq024.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/14/2010 1216			Final Weight/Volume:	5 mL
Date Prepared:	06/14/2010 1216				

LCSD Lab Sample ID:	LCSD 680-171498/5	Analysis Batch:	680-171498	Instrument ID:	MSO2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	oq026.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/14/2010 1245			Final Weight/Volume:	5 mL
Date Prepared:	06/14/2010 1245				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,1,2-Trichloroethane	96	97	75 - 121	2	30		
Trichloroethene	98	98	84 - 115	0	30		
Trichlorofluoromethane	88	84	58 - 149	5	50		
1,2,3-Trichloropropane	104	103	70 - 130	1	30		
Vinyl acetate	110	109	10 - 217	0	30		
Vinyl chloride	91	88	59 - 144	4	50		
Xylenes, Total	100	98	84 - 118	2	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	99	99	75 - 120
Dibromofluoromethane	101	101	75 - 121
Toluene-d8 (Surr)	96	97	75 - 120

Client: Ashland Inc. Job Number: 680-58386-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 680-171498

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-171498/4	Units:	ug/L	LCSD Lab Sample ID:	LCSD 680-171498/5
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Date Analyzed:	06/14/2010 1216			Date Analyzed:	06/14/2010 1245
Date Prepared:	06/14/2010 1216			Date Prepared:	06/14/2010 1245

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Acetone	100	100	109	111
Benzene	50.0	50.0	49.5	49.9
Bromoform	50.0	50.0	51.7	51.7
Bromomethane	50.0	50.0	42.5	42.8
2-Butanone (MEK)	100	100	105	106
Carbon disulfide	50.0	50.0	52.3	51.3
Carbon tetrachloride	50.0	50.0	51.1	50.3
Chlorobenzene	50.0	50.0	47.8	48.3
Chlorodibromomethane	50.0	50.0	52.1	51.8
Chloroethane	50.0	50.0	43.2	40.9
Chloroform	50.0	50.0	50.4	50.5
Chloromethane	50.0	50.0	39.5	39.8
cis-1,3-Dichloropropene	50.0	50.0	51.1	50.8
1,2-Dibromo-3-Chloropropane	50.0	50.0	55.3	56.4
Dibromomethane	50.0	50.0	48.9	48.1
Dichlorobromomethane	50.0	50.0	50.2	50.2
Dichlorodifluoromethane	50.0	50.0	50.6	50.4
1,1-Dichloroethane	50.0	50.0	51.2	51.4
1,2-Dichloroethane	50.0	50.0	47.3	49.1
1,1-Dichloroethene	50.0	50.0	52.9	51.7
1,2-Dichloropropane	50.0	50.0	49.1	50.1
Ethylbenzene	50.0	50.0	50.7	49.6
Ethylene Dibromide	50.0	50.0	50.2	51.3
2-Hexanone	100	100	109	111
Methylene Chloride	50.0	50.0	50.0	50.0
4-Methyl-2-pentanone (MIBK)	100	100	102	104
Styrene	50.0	50.0	49.7	49.6
1,1,1,2-Tetrachloroethane	50.0	50.0	49.7	49.4
1,1,2,2-Tetrachloroethane	50.0	50.0	50.3	49.5
Tetrachloroethene	50.0	50.0	49.6	48.8
Toluene	50.0	50.0	50.3	50.6
trans-1,2-Dichloroethene	50.0	50.0	49.9	49.4
trans-1,3-Dichloropropene	50.0	50.0	53.5	53.5
1,1,1-Trichloroethane	50.0	50.0	51.3	50.8
1,1,2-Trichloroethane	50.0	50.0	48.0	48.7
Trichloroethene	50.0	50.0	48.8	48.9
Trichlorofluoromethane	50.0	50.0	44.1	42.1
1,2,3-Trichloropropane	50.0	50.0	52.2	51.4
Vinyl acetate	100	100	110	109
Vinyl chloride	50.0	50.0	45.6	44.1
Xylenes, Total	150	150	150	147

Client: Ashland Inc. Job Number: 680-58386-1

Method Blank - Batch: 680-171499

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-171499/9
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/14/2010 1359
Date Prepared: 06/14/2010 1359

Analysis Batch: 680-171499
Prep Batch: N/A
Units: ug/L

Instrument ID: MSO
Lab File ID: oq031.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0

Client: Ashland Inc.

Job Number: 680-58386-1

Method Blank - Batch: 680-171499

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-171499/9
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/14/2010 1359
Date Prepared: 06/14/2010 1359

Analysis Batch: 680-171499
Prep Batch: N/A
Units: ug/L

Instrument ID: MSO
Lab File ID: oq031.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	98	75 - 120
Dibromofluoromethane	100	75 - 121
Toluene-d8 (Surr)	103	75 - 120

Client: Ashland Inc. Job Number: 680-58386-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-171499

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 680-171499/6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/14/2010 1201
Date Prepared: 06/14/2010 1201

Analysis Batch: 680-171499
Prep Batch: N/A
Units: ug/L

Instrument ID: MSO
Lab File ID: oq023.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

LCSD Lab Sample ID: LCSD 680-171499/7
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/14/2010 1231
Date Prepared: 06/14/2010 1231

Analysis Batch: 680-171499
Prep Batch: N/A
Units: ug/L

Instrument ID: MSO
Lab File ID: oq025.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	121	119	17 - 175	1	50		
Benzene	100	100	77 - 119	0	30		
Bromoform	107	109	62 - 133	1	30		
Bromomethane	76	79	12 - 184	3	50		
2-Butanone (MEK)	106	107	33 - 157	1	30		
Carbon disulfide	109	107	55 - 131	2	30		
Carbon tetrachloride	105	104	71 - 135	1	30		
Chlorobenzene	98	99	85 - 116	1	30		
Chlorodibromomethane	101	106	75 - 133	5	30		
Chloroethane	125	118	40 - 165	6	50		
Chloroform	102	100	82 - 120	2	30		
Chloromethane	87	85	48 - 142	2	50		
cis-1,3-Dichloropropene	107	105	76 - 126	2	30		
1,2-Dibromo-3-Chloropropane	112	113	49 - 140	1	30		
Dibromomethane	100	100	78 - 119	0	30		
Dichlorobromomethane	102	102	78 - 127	0	30		
Dichlorodifluoromethane	109	107	34 - 154	2	30		
1,1-Dichloroethane	104	105	74 - 127	1	30		
1,2-Dichloroethane	99	96	66 - 132	3	30		
1,1-Dichloroethene	108	108	62 - 141	1	30		
1,2-Dichloropropane	102	101	73 - 124	1	30		
Ethylbenzene	101	103	86 - 116	2	30		
Ethylene Dibromide	104	103	80 - 121	1	30		
2-Hexanone	113	111	34 - 161	1	30		
Methylene Chloride	107	107	70 - 125	0	30		
4-Methyl-2-pentanone (MIBK)	110	108	40 - 151	2	30		
Styrene	100	103	82 - 122	3	30		
1,1,1,2-Tetrachloroethane	102	105	81 - 128	3	30		
1,1,2,2-Tetrachloroethane	101	101	69 - 129	0	30		
Tetrachloroethene	100	100	76 - 126	1	30		
Toluene	100	101	81 - 117	1	30		
trans-1,2-Dichloroethene	102	100	72 - 131	2	30		
trans-1,3-Dichloropropene	106	105	73 - 128	1	30		
1,1,1-Trichloroethane	105	104	76 - 127	1	30		

Client: Ashland Inc. Job Number: 680-58386-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-171499

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-171499/6	Analysis Batch:	680-171499	Instrument ID:	MSO
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	oq023.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/14/2010 1201			Final Weight/Volume:	5 mL
Date Prepared:	06/14/2010 1201				

LCSD Lab Sample ID:	LCSD 680-171499/7	Analysis Batch:	680-171499	Instrument ID:	MSO
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	oq025.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/14/2010 1231			Final Weight/Volume:	5 mL
Date Prepared:	06/14/2010 1231				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,1,2-Trichloroethane	99	98	75 - 121	0	30		
Trichloroethene	99	100	84 - 115	1	30		
Trichlorofluoromethane	91	89	58 - 149	2	50		
1,2,3-Trichloropropane	103	105	70 - 130	2	30		
Vinyl acetate	112	109	10 - 217	3	30		
Vinyl chloride	89	88	59 - 144	1	50		
Xylenes, Total	101	102	84 - 118	2	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	101	102	75 - 120
Dibromofluoromethane	105	103	75 - 121
Toluene-d8 (Surr)	99	100	75 - 120

Client: Ashland Inc. Job Number: 680-58386-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 680-171499

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-171499/6	Units:	ug/L	LCSD Lab Sample ID:	LCSD 680-171499/7
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Date Analyzed:	06/14/2010 1201			Date Analyzed:	06/14/2010 1231
Date Prepared:	06/14/2010 1201			Date Prepared:	06/14/2010 1231

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Acetone	100	100	121	119
Benzene	50.0	50.0	49.9	49.9
Bromoform	50.0	50.0	53.6	54.3
Bromomethane	50.0	50.0	38.2	39.3
2-Butanone (MEK)	100	100	106	107
Carbon disulfide	50.0	50.0	54.7	53.6
Carbon tetrachloride	50.0	50.0	52.7	52.2
Chlorobenzene	50.0	50.0	48.8	49.5
Chlorodibromomethane	50.0	50.0	50.3	52.9
Chloroethane	50.0	50.0	62.7	59.2
Chloroform	50.0	50.0	51.0	50.2
Chloromethane	50.0	50.0	43.4	42.7
cis-1,3-Dichloropropene	50.0	50.0	53.5	52.7
1,2-Dibromo-3-Chloropropane	50.0	50.0	55.8	56.4
Dibromomethane	50.0	50.0	50.1	50.1
Dichlorobromomethane	50.0	50.0	51.1	51.2
Dichlorodifluoromethane	50.0	50.0	54.6	53.6
1,1-Dichloroethane	50.0	50.0	51.9	52.3
1,2-Dichloroethane	50.0	50.0	49.4	48.0
1,1-Dichloroethene	50.0	50.0	54.2	53.8
1,2-Dichloropropane	50.0	50.0	51.0	50.7
Ethylbenzene	50.0	50.0	50.5	51.7
Ethylene Dibromide	50.0	50.0	52.0	51.4
2-Hexanone	100	100	113	111
Methylene Chloride	50.0	50.0	53.5	53.6
4-Methyl-2-pentanone (MIBK)	100	100	110	108
Styrene	50.0	50.0	50.0	51.3
1,1,1,2-Tetrachloroethane	50.0	50.0	51.0	52.5
1,1,2,2-Tetrachloroethane	50.0	50.0	50.7	50.5
Tetrachloroethene	50.0	50.0	49.9	50.2
Toluene	50.0	50.0	49.8	50.4
trans-1,2-Dichloroethene	50.0	50.0	50.8	50.0
trans-1,3-Dichloropropene	50.0	50.0	52.8	52.6
1,1,1-Trichloroethane	50.0	50.0	52.7	52.2
1,1,2-Trichloroethane	50.0	50.0	49.4	49.2
Trichloroethene	50.0	50.0	49.6	50.1
Trichlorofluoromethane	50.0	50.0	45.4	44.6
1,2,3-Trichloropropane	50.0	50.0	51.4	52.5
Vinyl acetate	100	100	112	109
Vinyl chloride	50.0	50.0	44.6	44.0
Xylenes, Total	150	150	151	154

Client: Ashland Inc. Job Number: 680-58386-1

Method Blank - Batch: 680-171611

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-171611/8
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/15/2010 1130
Date Prepared: 06/15/2010 1130

Analysis Batch: 680-171611
Prep Batch: N/A
Units: ug/L

Instrument ID: MSO
Lab File ID: oq045.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0

Client: Ashland Inc.

Job Number: 680-58386-1

Method Blank - Batch: 680-171611

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-171611/8
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/15/2010 1130
Date Prepared: 06/15/2010 1130

Analysis Batch: 680-171611
Prep Batch: N/A
Units: ug/L

Instrument ID: MSO
Lab File ID: oq045.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	95	75 - 120
Dibromofluoromethane	103	75 - 121
Toluene-d8 (Surr)	104	75 - 120

Client: Ashland Inc. Job Number: 680-58386-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-171611

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 680-171611/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/15/2010 0935
Date Prepared: 06/15/2010 0935

Analysis Batch: 680-171611
Prep Batch: N/A
Units: ug/L

Instrument ID: MSO
Lab File ID: oq037.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

LCSD Lab Sample ID: LCSD 680-171611/6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/15/2010 1004
Date Prepared: 06/15/2010 1004

Analysis Batch: 680-171611
Prep Batch: N/A
Units: ug/L

Instrument ID: MSO
Lab File ID: oq039.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	94	95	17 - 175	1	50		
Benzene	100	98	77 - 119	2	30		
Bromoform	100	101	62 - 133	1	30		
Bromomethane	110	83	12 - 184	27	50		
2-Butanone (MEK)	86	87	33 - 157	1	30		
Carbon disulfide	109	107	55 - 131	2	30		
Carbon tetrachloride	108	104	71 - 135	3	30		
Chlorobenzene	94	95	85 - 116	1	30		
Chlorodibromomethane	100	101	75 - 133	1	30		
Chloroethane	144	109	40 - 165	27	50		
Chloroform	104	103	82 - 120	1	30		
Chloromethane	94	91	48 - 142	3	50		
cis-1,3-Dichloropropene	106	105	76 - 126	1	30		
1,2-Dibromo-3-Chloropropane	92	92	49 - 140	1	30		
Dibromomethane	96	97	78 - 119	1	30		
Dichlorobromomethane	103	102	78 - 127	2	30		
Dichlorodifluoromethane	108	101	34 - 154	7	30		
1,1-Dichloroethane	106	103	74 - 127	3	30		
1,2-Dichloroethane	96	95	66 - 132	1	30		
1,1-Dichloroethene	110	110	62 - 141	0	30		
1,2-Dichloropropane	102	99	73 - 124	3	30		
Ethylbenzene	99	100	86 - 116	1	30		
Ethylene Dibromide	97	98	80 - 121	1	30		
2-Hexanone	88	91	34 - 161	3	30		
Methylene Chloride	108	109	70 - 125	1	30		
4-Methyl-2-pentanone (MIBK)	90	90	40 - 151	0	30		
Styrene	100	100	82 - 122	1	30		
1,1,1,2-Tetrachloroethane	101	103	81 - 128	2	30		
1,1,2,2-Tetrachloroethane	90	90	69 - 129	1	30		
Tetrachloroethene	95	96	76 - 126	1	30		
Toluene	102	99	81 - 117	3	30		
trans-1,2-Dichloroethene	103	99	72 - 131	3	30		
trans-1,3-Dichloropropene	105	103	73 - 128	3	30		
1,1,1-Trichloroethane	105	103	76 - 127	2	30		

Client: Ashland Inc. Job Number: 680-58386-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-171611

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-171611/5	Analysis Batch:	680-171611	Instrument ID:	MSO
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	oq037.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/15/2010 0935			Final Weight/Volume:	5 mL
Date Prepared:	06/15/2010 0935				

LCSD Lab Sample ID:	LCSD 680-171611/6	Analysis Batch:	680-171611	Instrument ID:	MSO
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	oq039.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/15/2010 1004			Final Weight/Volume:	5 mL
Date Prepared:	06/15/2010 1004				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,1,2-Trichloroethane	98	93	75 - 121	5	30		
Trichloroethene	99	97	84 - 115	3	30		
Trichlorofluoromethane	96	91	58 - 149	5	50		
1,2,3-Trichloropropane	88	90	70 - 130	3	30		
Vinyl acetate	109	107	10 - 217	1	30		
Vinyl chloride	92	87	59 - 144	5	50		
Xylenes, Total	99	100	84 - 118	1	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	97	98	75 - 120
Dibromofluoromethane	103	102	75 - 121
Toluene-d8 (Surr)	101	98	75 - 120

Client: Ashland Inc. Job Number: 680-58386-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 680-171611

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-171611/5	Units:	ug/L	LCSD Lab Sample ID:	LCSD 680-171611/6
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Date Analyzed:	06/15/2010 0935			Date Analyzed:	06/15/2010 1004
Date Prepared:	06/15/2010 0935			Date Prepared:	06/15/2010 1004

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Acetone	100	100	94.0	95.2
Benzene	50.0	50.0	50.0	49.2
Bromoform	50.0	50.0	49.9	50.5
Bromomethane	50.0	50.0	54.8	41.6
2-Butanone (MEK)	100	100	86.2	86.8
Carbon disulfide	50.0	50.0	54.6	53.5
Carbon tetrachloride	50.0	50.0	53.9	52.1
Chlorobenzene	50.0	50.0	47.0	47.6
Chlorodibromomethane	50.0	50.0	50.1	50.7
Chloroethane	50.0	50.0	71.9	54.6
Chloroform	50.0	50.0	51.8	51.4
Chloromethane	50.0	50.0	46.8	45.6
cis-1,3-Dichloropropene	50.0	50.0	53.2	52.6
1,2-Dibromo-3-Chloropropane	50.0	50.0	46.1	45.9
Dibromomethane	50.0	50.0	47.8	48.4
Dichlorobromomethane	50.0	50.0	51.7	50.9
Dichlorodifluoromethane	50.0	50.0	54.0	50.5
1,1-Dichloroethane	50.0	50.0	53.1	51.3
1,2-Dichloroethane	50.0	50.0	48.2	47.6
1,1-Dichloroethene	50.0	50.0	54.8	54.8
1,2-Dichloropropane	50.0	50.0	51.1	49.3
Ethylbenzene	50.0	50.0	49.7	49.9
Ethylene Dibromide	50.0	50.0	48.3	48.8
2-Hexanone	100	100	87.8	90.5
Methylene Chloride	50.0	50.0	53.8	54.4
4-Methyl-2-pentanone (MIBK)	100	100	90.3	90.1
Styrene	50.0	50.0	49.8	50.1
1,1,1,2-Tetrachloroethane	50.0	50.0	50.4	51.5
1,1,2,2-Tetrachloroethane	50.0	50.0	44.8	45.2
Tetrachloroethene	50.0	50.0	47.6	48.2
Toluene	50.0	50.0	50.9	49.3
trans-1,2-Dichloroethene	50.0	50.0	51.3	49.6
trans-1,3-Dichloropropene	50.0	50.0	52.7	51.4
1,1,1-Trichloroethane	50.0	50.0	52.6	51.5
1,1,2-Trichloroethane	50.0	50.0	48.8	46.6
Trichloroethene	50.0	50.0	49.6	48.4
Trichlorofluoromethane	50.0	50.0	47.8	45.5
1,2,3-Trichloropropane	50.0	50.0	43.8	45.2
Vinyl acetate	100	100	109	107
Vinyl chloride	50.0	50.0	46.1	43.7
Xylenes, Total	150	150	149	150

Method Blank - Batch: 680-171149

Method: 8081A_8082
Preparation: 3520C

Lab Sample ID: MB 680-171149/16-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/12/2010 0314
Date Prepared: 06/10/2010 1425

Analysis Batch: 680-171403
Prep Batch: 680-171149
Units: ug/L

Instrument ID: SGM
Lab File ID: mf11033.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
Toxaphene, Total	5.0	U	0.50	5.0

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	58	14 - 115
Tetrachloro-m-xylene	66	35 - 120

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-171149

Method: 8081A_8082
Preparation: 3520C

LCS Lab Sample ID: LCS 680-171149/25-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/12/2010 0412
Date Prepared: 06/10/2010 1425

Analysis Batch: 680-171403
Prep Batch: 680-171149
Units: ug/L

Instrument ID: SGM
Lab File ID: mf11036.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/12/2010 0431
Date Prepared: 06/10/2010 1425

Analysis Batch: 680-171403
Prep Batch: 680-171149
Units: ug/L

Instrument ID: SGM
Lab File ID: mf11037.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	% Rec. LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Toxaphene, Total	68	74	30 - 120	8	40		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
DCB Decachlorobiphenyl	62	66	14 - 115
Tetrachloro-m-xylene	71	66	35 - 120

Client: Ashland Inc. Job Number: 680-58386-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 680-171149

Method: 8081A_8082
Preparation: 3520C

LCS Lab Sample ID:	LCS 680-171149/25-A	Units:	ug/L	LCSD Lab Sample ID:	LCSD 680-171149/26-A
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Date Analyzed:	06/12/2010 0412			Date Analyzed:	06/12/2010 0431
Date Prepared:	06/10/2010 1425			Date Prepared:	06/10/2010 1425

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Toxaphene, Total	10.0	10.0	6.79	7.40

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-171149

Method: 8081A_8082
Preparation: 3520C

MS Lab Sample ID:	680-58386-10	Analysis Batch:	680-171403	Instrument ID:	SGM
Client Matrix:	Water	Prep Batch:	680-171149	Lab File ID:	mf11059.d
Dilution:	1.0			Initial Weight/Volume:	500 mL
Date Analyzed:	06/12/2010 1137			Final Weight/Volume:	5 mL
Date Prepared:	06/10/2010 1425			Injection Volume:	2 uL
				Column ID:	PRIMARY

MSD Lab Sample ID:	680-58386-10	Analysis Batch:	680-171403	Instrument ID:	SGM
Client Matrix:	Water	Prep Batch:	680-171149	Lab File ID:	mf11060.d
Dilution:	1.0			Initial Weight/Volume:	500 mL
Date Analyzed:	06/12/2010 1156			Final Weight/Volume:	5 mL
Date Prepared:	06/10/2010 1425			Injection Volume:	2 uL
				Column ID:	PRIMARY

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Toxaphene, Total	57	76	30 - 120	28	40		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
DCB Decachlorobiphenyl	35	40	14 - 115
Tetrachloro-m-xylene	59	71	35 - 120

Client: Ashland Inc. Job Number: 680-58386-1

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 680-171149

Method: 8081A_8082
Preparation: 3520C

MS Lab Sample ID:	680-58386-10	Units: ug/L	MSD Lab Sample ID:	680-58386-10	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Date Analyzed:	06/12/2010 1137		Date Analyzed:	06/12/2010 1156	
Date Prepared:	06/10/2010 1425		Date Prepared:	06/10/2010 1425	

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Toxaphene, Total	5.0	U	10.0	10.0	5.74	7.59

Method Blank - Batch: 680-171149

Method: 8081B/8082A
Preparation: 3520C

Lab Sample ID: MB 680-171149/16-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/12/2010 0314
Date Prepared: 06/10/2010 1425

Analysis Batch: 680-171402
Prep Batch: 680-171149
Units: ug/L

Instrument ID: SGM
Lab File ID: mf11033.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
Toxaphene, Technical	5.0	U	0.50	5.0

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	62	14 - 115
Tetrachloro-m-xylene	76	35 - 120

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	56	14 - 115
Tetrachloro-m-xylene	76	35 - 120

Lab Control Sample - Batch: 680-171149

Method: 8081B/8082A
Preparation: 3520C

Lab Sample ID: LCS 680-171149/25-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/12/2010 0412
Date Prepared: 06/10/2010 1425

Analysis Batch: 680-171402
Prep Batch: 680-171149
Units: ug/L

Instrument ID: SGM
Lab File ID: mf11036.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Toxaphene, Technical	10.0	8.98	90	30 - 120	

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	62	14 - 115
Tetrachloro-m-xylene	77	35 - 120

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	61	14 - 115
Tetrachloro-m-xylene	70	35 - 120

Client: Ashland Inc. Job Number: 680-58386-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-171149

Method: 8081B/8082A
Preparation: 3520C

MS Lab Sample ID:	680-58386-10	Analysis Batch: 680-171402	Instrument ID: SGM
Client Matrix:	Water	Prep Batch: 680-171149	Lab File ID: mf11059.d
Dilution:	1.0		Initial Weight/Volume: 500 mL
Date Analyzed:	06/12/2010 1137		Final Weight/Volume: 5 mL
Date Prepared:	06/10/2010 1425		Injection Volume: 2 uL
			Column ID: PRIMARY

MSD Lab Sample ID:	680-58386-10	Analysis Batch: 680-171402	Instrument ID: SGM
Client Matrix:	Water	Prep Batch: 680-171149	Lab File ID: mf11060.d
Dilution:	1.0		Initial Weight/Volume: 500 mL
Date Analyzed:	06/12/2010 1156		Final Weight/Volume: 5 mL
Date Prepared:	06/10/2010 1425		Injection Volume: 2 uL
			Column ID: PRIMARY

	% Rec.					
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Toxaphene, Technical	55	53	30 - 120	3	40		

Surrogate	MS % Rec	MSD % Rec		Acceptance Limits
DCB Decachlorobiphenyl	30	21	p	14 - 115
Tetrachloro-m-xylene	55	50		35 - 120

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
DCB Decachlorobiphenyl	25	31	14 - 115
Tetrachloro-m-xylene	46	47	35 - 120

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 680-171149

Method: 8081B/8082A
Preparation: 3520C

MS Lab Sample ID:	680-58386-10	Units: ug/L	MSD Lab Sample ID: 680-58386-10
Client Matrix:	Water		Client Matrix: Water
Dilution:	1.0		Dilution: 1.0
Date Analyzed:	06/12/2010 1137		Date Analyzed: 06/12/2010 1156
Date Prepared:	06/10/2010 1425		Date Prepared: 06/10/2010 1425

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Toxaphene, Technical	5.0	U	10.0	10.0	5.50	5.31

Client: Ashland Inc.

Job Number: 680-58386-1

Method Blank - Batch: 680-171282

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID: MB 680-171282/21-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/15/2010 1543
Date Prepared: 06/11/2010 1157

Analysis Batch: 680-171623
Prep Batch: 680-171282
Units: ug/L

Instrument ID: ICPD
Lab File ID: 061510.chr
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Antimony	20	U	5.2	20
Arsenic	20	U	10	20
Barium	10	U	2.0	10
Beryllium	4.0	U	0.10	4.0
Cadmium	5.0	U	2.0	5.0
Chromium	10	U	2.0	10
Cobalt	10	U	1.0	10
Copper	20	U	5.0	20
Lead	10	U	3.4	10
Nickel	40	U	4.0	40
Selenium	20	U	6.4	20
Silver	10	U	0.97	10
Thallium	25	U	8.7	25
Tin	50	U	5.4	50
Vanadium	10	U	3.0	10
Zinc	20	U	6.3	20

Client: Ashland Inc.

Job Number: 680-58386-1

Lab Control Sample - Batch: 680-171282

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID: LCS 680-171282/22-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/15/2010 1548
Date Prepared: 06/11/2010 1157

Analysis Batch: 680-171623
Prep Batch: 680-171282
Units: ug/L

Instrument ID: ICPD
Lab File ID: 061510.chr
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Antimony	500	500	100	75 - 125	
Arsenic	2000	1980	99	75 - 125	
Barium	2000	2000	100	75 - 125	
Beryllium	50.0	50.0	100	75 - 125	
Cadmium	50.0	50.9	102	75 - 125	
Chromium	200	200	100	75 - 125	
Cobalt	500	496	99	75 - 125	
Copper	250	242	97	75 - 125	
Lead	500	504	101	75 - 125	
Nickel	500	490	98	75 - 125	
Selenium	2000	2050	102	75 - 125	
Silver	50.0	48.7	97	75 - 125	
Thallium	2000	2070	104	75 - 125	
Tin	1000	954	95	75 - 125	
Vanadium	500	483	97	75 - 125	
Zinc	500	502	100	75 - 125	

Client: Ashland Inc. Job Number: 680-58386-1

Method Blank - Batch: 680-171597

Method: 7470A
Preparation: 7470A

Lab Sample ID:	MB 680-171597/21-A	Analysis Batch:	680-172022	Instrument ID:	LEEMAN1
Client Matrix:	Water	Prep Batch:	680-171597	Lab File ID:	b061810.chr
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	50 mL
Date Analyzed:	06/18/2010 1518			Final Weight/Volume:	50 mL
Date Prepared:	06/15/2010 1526				

Analyte	Result	Qual	MDL	RL
Mercury	0.20	U	0.091	0.20

Lab Control Sample - Batch: 680-171597

Method: 7470A
Preparation: 7470A

Lab Sample ID:	LCS 680-171597/22-A	Analysis Batch:	680-172022	Instrument ID:	LEEMAN1
Client Matrix:	Water	Prep Batch:	680-171597	Lab File ID:	b061810.chr
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	50 mL
Date Analyzed:	06/18/2010 1521			Final Weight/Volume:	50 mL
Date Prepared:	06/15/2010 1526				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	2.50	2.26	90	80 - 120	

Client: Ashland Inc. Job Number: 680-58386-1

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Lab ID: 680-58386-1 **Client ID: EB(4)**

Sample Date/Time: 06/07/2010 17:30 Received Date/Time: 06/09/2010 09:19

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58386-D-1		680-171498		06/14/2010 14:43	1	TAL SAV	RB
A:8260B	680-58386-D-1		680-171498		06/14/2010 14:43	1	TAL SAV	RB
P:3520C	680-58386-A-1-A		680-171403	680-171149	06/10/2010 14:25	1	TAL SAV	RBS
A:8081A_8082	680-58386-A-1-A		680-171403	680-171149	06/12/2010 05:10	1	TAL SAV	JK
P:3520C	680-58386-A-1-A		680-171402	680-171149	06/10/2010 14:25	1	TAL SAV	RBS
A:8081B/8082A	680-58386-A-1-A		680-171402	680-171149	06/12/2010 05:10	1	TAL SAV	JK
P:3005A	680-58386-C-1-A		680-171623	680-171282	06/11/2010 11:57	1	TAL SAV	RA
A:6010B	680-58386-C-1-A		680-171623	680-171282	06/15/2010 18:01	1	TAL SAV	BCB
P:7470A	680-58386-A-1-B		680-172022	680-171597	06/15/2010 15:26	1	TAL SAV	DH
A:7470A	680-58386-A-1-B		680-172022	680-171597	06/18/2010 16:07	1	TAL SAV	CE

Lab ID: 680-58386-2 **Client ID: EB(5)**

Sample Date/Time: 06/07/2010 18:00 Received Date/Time: 06/09/2010 09:19

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58386-D-2		680-171498		06/14/2010 15:12	1	TAL SAV	RB
A:8260B	680-58386-D-2		680-171498		06/14/2010 15:12	1	TAL SAV	RB
P:3520C	680-58386-A-2-A		680-171403	680-171149	06/10/2010 14:25	1	TAL SAV	RBS
A:8081A_8082	680-58386-A-2-A		680-171403	680-171149	06/12/2010 05:29	1	TAL SAV	JK
P:3520C	680-58386-A-2-A		680-171402	680-171149	06/10/2010 14:25	1	TAL SAV	RBS
A:8081B/8082A	680-58386-A-2-A		680-171402	680-171149	06/12/2010 05:29	1	TAL SAV	JK
P:3005A	680-58386-C-2-A		680-171623	680-171282	06/11/2010 11:57	1	TAL SAV	RA
A:6010B	680-58386-C-2-A		680-171623	680-171282	06/15/2010 18:10	1	TAL SAV	BCB
P:7470A	680-58386-A-2-B		680-172022	680-171597	06/15/2010 15:26	1	TAL SAV	DH
A:7470A	680-58386-A-2-B		680-172022	680-171597	06/18/2010 16:09	1	TAL SAV	CE

Lab ID: 680-58386-3 **Client ID: FB(MW24D)**

Sample Date/Time: 06/07/2010 17:00 Received Date/Time: 06/09/2010 09:19

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58386-A-3		680-171498		06/14/2010 15:41	1	TAL SAV	RB
A:8260B	680-58386-A-3		680-171498		06/14/2010 15:41	1	TAL SAV	RB

Lab ID: 680-58386-4 **Client ID: FB(MW44)**

Sample Date/Time: 06/07/2010 16:39 Received Date/Time: 06/09/2010 09:19

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58386-A-4		680-171498		06/14/2010 16:11	1	TAL SAV	RB
A:8260B	680-58386-A-4		680-171498		06/14/2010 16:11	1	TAL SAV	RB

Client: Ashland Inc. Job Number: 680-58386-1

Laboratory Chronicle

Lab ID: 680-58386-5 **Client ID: FB(MW48)**

Sample Date/Time: 06/07/2010 16:00 Received Date/Time: 06/09/2010 09:19

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58386-A-5		680-171498		06/14/2010 16:41	1	TAL SAV	RB
A:8260B	680-58386-A-5		680-171498		06/14/2010 16:41	1	TAL SAV	RB

Lab ID: 680-58386-6 **Client ID: MW46I**

Sample Date/Time: 06/08/2010 09:30 Received Date/Time: 06/09/2010 09:19

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58386-D-6		680-171611		06/15/2010 13:25	1	TAL SAV	RB
A:8260B	680-58386-D-6		680-171611		06/15/2010 13:25	1	TAL SAV	RB
P:3520C	680-58386-A-6-A		680-171403	680-171149	06/10/2010 14:25	1	TAL SAV	RBS
A:8081A_8082	680-58386-A-6-A		680-171403	680-171149	06/12/2010 05:49	1	TAL SAV	JK
P:3520C	680-58386-A-6-A		680-171402	680-171149	06/10/2010 14:25	1	TAL SAV	RBS
A:8081B/8082A	680-58386-A-6-A		680-171402	680-171149	06/12/2010 05:49	1	TAL SAV	JK
P:3005A	680-58386-C-6-A		680-171623	680-171282	06/11/2010 11:57	1	TAL SAV	RA
A:6010B	680-58386-C-6-A		680-171623	680-171282	06/15/2010 18:16	1	TAL SAV	BCB
P:7470A	680-58386-A-6-B		680-172022	680-171597	06/15/2010 15:26	1	TAL SAV	DH
A:7470A	680-58386-A-6-B		680-172022	680-171597	06/18/2010 16:19	1	TAL SAV	CE

Lab ID: 680-58386-7 **Client ID: MW45I**

Sample Date/Time: 06/08/2010 10:30 Received Date/Time: 06/09/2010 09:19

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58386-D-7		680-171498		06/14/2010 19:36	1	TAL SAV	RB
A:8260B	680-58386-D-7		680-171498		06/14/2010 19:36	1	TAL SAV	RB
P:3520C	680-58386-B-7-A		680-171403	680-171149	06/10/2010 14:25	1	TAL SAV	RBS
A:8081A_8082	680-58386-B-7-A		680-171403	680-171149	06/12/2010 06:08	1	TAL SAV	JK
P:3520C	680-58386-B-7-A		680-171402	680-171149	06/10/2010 14:25	1	TAL SAV	RBS
A:8081B/8082A	680-58386-B-7-A		680-171402	680-171149	06/12/2010 06:08	1	TAL SAV	JK
P:3005A	680-58386-C-7-A		680-171623	680-171282	06/11/2010 11:57	1	TAL SAV	RA
A:6010B	680-58386-C-7-A		680-171623	680-171282	06/15/2010 18:21	1	TAL SAV	BCB
P:7470A	680-58386-A-7-A		680-172022	680-171597	06/15/2010 15:26	1	TAL SAV	DH
A:7470A	680-58386-A-7-A		680-172022	680-171597	06/18/2010 16:22	1	TAL SAV	CE

Lab ID: 680-58386-8 **Client ID: 051110 Trip Blank**

Sample Date/Time: 06/08/2010 00:00 Received Date/Time: 06/09/2010 09:19

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58386-A-8		680-171498		06/14/2010 17:10	1	TAL SAV	RB
A:8260B	680-58386-A-8		680-171498		06/14/2010 17:10	1	TAL SAV	RB

Client: Ashland Inc. Job Number: 680-58386-1

Laboratory Chronicle

Lab ID: 680-58386-9 **Client ID: MW34**

Sample Date/Time: 06/08/2010 12:30 Received Date/Time: 06/09/2010 09:19

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58386-B-9		680-171498		06/14/2010 20:05	1	TAL SAV	RB
A:8260B	680-58386-B-9		680-171498		06/14/2010 20:05	1	TAL SAV	RB

Lab ID: 680-58386-10 **Client ID: MW35D**

Sample Date/Time: 06/08/2010 15:25 Received Date/Time: 06/09/2010 09:19

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58386-D-10		680-171498		06/14/2010 20:34	1	TAL SAV	RB
A:8260B	680-58386-D-10		680-171498		06/14/2010 20:34	1	TAL SAV	RB
P:3520C	680-58386-B-10-A		680-171403	680-171149	06/10/2010 14:25	1	TAL SAV	RBS
A:8081A_8082	680-58386-B-10-A		680-171403	680-171149	06/12/2010 06:27	1	TAL SAV	JK
P:3520C	680-58386-B-10-A		680-171402	680-171149	06/10/2010 14:25	1	TAL SAV	RBS
A:8081B/8082A	680-58386-B-10-A		680-171402	680-171149	06/12/2010 06:27	1	TAL SAV	JK

Lab ID: 680-58386-10 MS **Client ID: MW35D**

Sample Date/Time: 06/08/2010 15:25 Received Date/Time: 06/09/2010 09:19

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3520C	680-58386-A-10-A MS		680-171403	680-171149	06/10/2010 14:25	1	TAL SAV	RBS
A:8081A_8082	680-58386-A-10-A MS		680-171403	680-171149	06/12/2010 11:37	1	TAL SAV	JK
P:3520C	680-58386-A-10-A MS		680-171402	680-171149	06/10/2010 14:25	1	TAL SAV	RBS
A:8081B/8082A	680-58386-A-10-A MS		680-171402	680-171149	06/12/2010 11:37	1	TAL SAV	JK

Lab ID: 680-58386-10 MSD **Client ID: MW35D**

Sample Date/Time: 06/08/2010 15:25 Received Date/Time: 06/09/2010 09:19

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3520C	680-58386-A-10-B MSD		680-171403	680-171149	06/10/2010 14:25	1	TAL SAV	RBS
A:8081A_8082	680-58386-A-10-B MSD		680-171403	680-171149	06/12/2010 11:56	1	TAL SAV	JK
P:3520C	680-58386-A-10-B MSD		680-171402	680-171149	06/10/2010 14:25	1	TAL SAV	RBS
A:8081B/8082A	680-58386-A-10-B MSD		680-171402	680-171149	06/12/2010 11:56	1	TAL SAV	JK

Client: Ashland Inc. Job Number: 680-58386-1

Laboratory Chronicle

Lab ID: 680-58386-11 **Client ID: MW31D**

Sample Date/Time: 06/08/2010 13:30 Received Date/Time: 06/09/2010 09:19

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58386-A-11		680-171498		06/14/2010 21:04	1	TAL SAV	RB
A:8260B	680-58386-A-11		680-171498		06/14/2010 21:04	1	TAL SAV	RB

Lab ID: 680-58386-12 **Client ID: MW28D**

Sample Date/Time: 06/08/2010 16:20 Received Date/Time: 06/09/2010 09:19

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58386-B-12		680-171499		06/14/2010 20:49	20	TAL SAV	RB
A:8260B	680-58386-B-12		680-171499		06/14/2010 20:49	20	TAL SAV	RB
P:5030B	680-58386-B-12	DL	680-171611		06/15/2010 13:54	200	TAL SAV	RB
A:8260B	680-58386-B-12	DL	680-171611		06/15/2010 13:54	200	TAL SAV	RB

Lab ID: MB **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	MB 680-171499/9		680-171499		06/14/2010 13:59	1	TAL SAV	RB
A:8260B	MB 680-171499/9		680-171499		06/14/2010 13:59	1	TAL SAV	RB
P:5030B	MB 680-171498/11		680-171498		06/14/2010 14:13	1	TAL SAV	RB
A:8260B	MB 680-171498/11		680-171498		06/14/2010 14:13	1	TAL SAV	RB
P:5030B	MB 680-171611/8		680-171611		06/15/2010 11:30	1	TAL SAV	RB
A:8260B	MB 680-171611/8		680-171611		06/15/2010 11:30	1	TAL SAV	RB
P:3520C	MB 680-171149/16-A		680-171403	680-171149	06/10/2010 14:25	1	TAL SAV	RBS
A:8081A_8082	MB 680-171149/16-A		680-171403	680-171149	06/12/2010 03:14	1	TAL SAV	JK
P:3520C	MB 680-171149/16-A		680-171402	680-171149	06/10/2010 14:25	1	TAL SAV	RBS
A:8081B/8082A	MB 680-171149/16-A		680-171402	680-171149	06/12/2010 03:14	1	TAL SAV	JK
P:3005A	MB 680-171282/21-A		680-171623	680-171282	06/11/2010 11:57	1	TAL SAV	RA
A:6010B	MB 680-171282/21-A		680-171623	680-171282	06/15/2010 15:43	1	TAL SAV	BCB
P:7470A	MB 680-171597/21-A		680-172022	680-171597	06/15/2010 15:26	1	TAL SAV	DH
A:7470A	MB 680-171597/21-A		680-172022	680-171597	06/18/2010 15:18	1	TAL SAV	CE

Client: Ashland Inc. Job Number: 680-58386-1

Laboratory Chronicle

Lab ID: LCS **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCS 680-171499/6		680-171499		06/14/2010 12:01	1	TAL SAV	RB
A:8260B	LCS 680-171499/6		680-171499		06/14/2010 12:01	1	TAL SAV	RB
P:5030B	LCS 680-171498/4		680-171498		06/14/2010 12:16	1	TAL SAV	RB
A:8260B	LCS 680-171498/4		680-171498		06/14/2010 12:16	1	TAL SAV	RB
P:5030B	LCS 680-171611/5		680-171611		06/15/2010 09:35	1	TAL SAV	RB
A:8260B	LCS 680-171611/5		680-171611		06/15/2010 09:35	1	TAL SAV	RB
P:3520C	LCS 680-171149/25-A		680-171403	680-171149	06/10/2010 14:25	1	TAL SAV	RBS
A:8081A_8082	LCS 680-171149/25-A		680-171403	680-171149	06/12/2010 04:12	1	TAL SAV	JK
P:3520C	LCS 680-171149/25-A		680-171402	680-171149	06/10/2010 14:25	1	TAL SAV	RBS
A:8081B/8082A	LCS 680-171149/25-A		680-171402	680-171149	06/12/2010 04:12	1	TAL SAV	JK
P:3005A	LCS 680-171282/22-A		680-171623	680-171282	06/11/2010 11:57	1	TAL SAV	RA
A:6010B	LCS 680-171282/22-A		680-171623	680-171282	06/15/2010 15:48	1	TAL SAV	BCB
P:7470A	LCS 680-171597/22-A		680-172022	680-171597	06/15/2010 15:26	1	TAL SAV	DH
A:7470A	LCS 680-171597/22-A		680-172022	680-171597	06/18/2010 15:21	1	TAL SAV	CE

Lab ID: LCSD **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCSD 680-171499/7		680-171499		06/14/2010 12:31	1	TAL SAV	RB
A:8260B	LCSD 680-171499/7		680-171499		06/14/2010 12:31	1	TAL SAV	RB
P:5030B	LCSD 680-171498/5		680-171498		06/14/2010 12:45	1	TAL SAV	RB
A:8260B	LCSD 680-171498/5		680-171498		06/14/2010 12:45	1	TAL SAV	RB
P:5030B	LCSD 680-171611/6		680-171611		06/15/2010 10:04	1	TAL SAV	RB
A:8260B	LCSD 680-171611/6		680-171611		06/15/2010 10:04	1	TAL SAV	RB
P:3520C	LCSD 680-171149/26-A		680-171403	680-171149	06/10/2010 14:25	1	TAL SAV	RBS
A:8081A_8082	LCSD 680-171149/26-A		680-171403	680-171149	06/12/2010 04:31	1	TAL SAV	JK
P:3520C	LCSD 680-171149/26-A		680-171402	680-171149	06/10/2010 14:25	1	TAL SAV	RBS
A:8081B/8082A	LCSD 680-171149/26-A		680-171402	680-171149	06/12/2010 04:31	1	TAL SAV	JK

Lab References:
TAL SAV = TestAmerica Savannah

Serial Number 031431

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

○ TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

○ Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE: Ashland Brunswick RI	PROJECT NO.: J09B4509	PROJECT LOCATION (STATE):	PAGE: 1 OF 2
TAL (LAB) PROJECT MANAGER: Lidia Gil Lizia	P.O. NUMBER: 4501306047	CONTRACT NO.	STANDARD REPORT DELIVERY: X
CLIENT (SITE) PM: Tim Hassett	CLIENT PHONE	CLIENT FAX	DATE DUE:
CLIENT NAME: Ashland Brunswick	CLIENT E-MAIL		EXPEDITED REPORT DELIVERY (SURCHARGE): ○
CLIENT ADDRESS: 2508 Bloom ST			DATE DUE:
COMPANY CONTRACTING THIS WORK (if applicable)			NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: VOCs	Total & Technical Target Analytes Metals								NUMBER OF CONTAINERS SUBMITTED								REMARKS
		PRESERVATIVE						No																	
6/7/10	1730	~~Equip Blank~~ EB(4)	G	X				3	2	1															
6/7/10	1800	EB(5)						3	2	1															
6/7/10	1700	FB(MW2 ~~HD~~)						3																	
6/7/10	~~1630~~ 1639	FB(MW44)						3																	
6/7/10	1600	FB(MW48)						3																	
6/8/10	930	MW46I	G	X				3	2	1															
6/8/10	1030	MW45I						3	2	1															
6/8/10		051110 trip Blank																							
6/8/10	1230	MW34						3																	
6/8/10	1535	MW35D						3	2																
6/8/10	1330	MW31D						3																	
	1620	MW28D	G	X																					

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
BDS	6/8/10	1700						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
Joseph Conner	6/9/10	0919	YES ○ NO ○		680-58386	3.1°C

TAL 8240 680 (1007)

Login Sample Receipt Check List

Client: Ashland Inc.

Job Number: 680-58386-1

Login Number: 58386

List Source: TestAmerica Savannah

Creator: Conner, Keaton

List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.1 C
COC is present.	True	
C2 C is filled out in ink and legible.	True	
C2 C is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	False	-6 and -7 only 1 liter label has ID--times matched to COC
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	MS/MSD not requested (no additional volume provided).
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	N/A	
Sample Preservation Verified	True	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 680-58415-1

Job Description: Ashland Brunswick RFI GW June 2010

For:
Ashland Inc.
500 Hercules Road
Wilmington, DE 19894

Attention: Timothy Hassett

Approved for release.
Lidya Gulizia
Project Manager I
6/23/2010 5:40 PM

Lidya Gulizia
Project Manager I
lidya.gulizia@testamericainc.com
06/23/2010

cc: Kelley Baker
Mr. Leroy Bishop
Mr. Dennis Brunner
Ryan Cate
Mr. Tony Mancini
Ms. Charlene Rivard

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

Savannah Certifications and ID #s: A2LA: 0399.01; AL: 41450; ARDEQ: 88-0692; ARDOH; AZ: AZ0741; CA: 03217CA; CO; CT: PH0161; DE; FL: E87052; GA: 803; Guam; HI; IL: 200022; IN; IA: 353; KS: E-10322; KY EPPC: 90084; KY UST; LA DEQ: 30690; LA DHH: LA080008; ME: 2008022; MD: 250; MA: M-GA006; MI: 9925; MS; NFESC: 249; NV: GA00006; NJ: GA769; NM; NY: 10842; NC DWQ: 269; NC DHHS: 13701; PA: 68-00474; PR: GA00006; RI: LAO00244; SC: 98001001; TN: TN0296; TX: T104704185; USEPA: GA00006; VT: VT-87052; VA: 00302; WA; WV DEP: 094; WV DHHR: 9950 C; WI DNR: 999819810; WY/EPAR8: 8TMS-Q

TestAmerica Laboratories, Inc.
TestAmerica Savannah 5102 LaRoche Avenue, Savannah, GA 31404
Tel (912) 354-7858 Fax (912) 352-0165 www.testamericainc.com

ACCREDITED IN ACCORDANCE WITH nelac

Receipt
All samples were received in good condition within temperature requirements.

GC/MS VOA
No analytical or quality issues were noted.

VOA Prep
No analytical or quality issues were noted.

Comments
No additional comments.

METHOD SUMMARY

Client: Ashland Inc. Job Number: 680-58415-1

Description	Lab Location	Method	Preparation Method
Matrix Wcs Se			
Volatile Organic Compounds (GC/MS)	TAL SAV	SW846 8260B	
Purge and Trap	TAL SAV		SW846 5030B

Lab References:

TAL SAV = TestAmerica Savannah

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Ashland Inc. Job Number: 680-58415-1

Method	Analyst	Analyst ID
SW846 8260B	Bearden, Robert	RB

SAMPLE SUMMARY

Client: Ashland Inc. Job Number: 680-58415-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-58415-1	MW15D	Water	06/08/2010 1300	06/10/2010 0810

SAMPLE RESULTS

Client: Ashland Inc. Job Number: 680-58415-1

Client Sample ID: **MW15D**

Lab Sample ID: 680-58415-1 Date Sampled: 06/08/2010 1300
Client Matrix: Water Date Received: 06/10/2010 0830

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-171613 Instrument ID: MSO2
Preparation: 5030B Lab File ID: o0058.d
Dilution: 50 Initial Weight/Volume: 5 mL
Date Analyzed: 06/15/2010 1700 Final Weight/Volume: 5 mL
Date Prepared: 06/15/2010 1700

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	310	J	250	1200
Acetonitrile	2000	U	500	2000
Acrolein	1000	U	370	1000
Acrylonitrile	1000	U	360	1000
Benzene	3000		12	50
Bromoform	50	U	25	50
Bromomethane	50	U	40	50
2-Butanone (MEK)	500	U	50	500
Carbon disulfide	100	U	30	100
Carbon tetrachloride	50	U	25	50
Chlorobenzene	1600		12	50
2-Chloro-1,3-butadiene	50	U	15	50
Chlorodibromomethane	50	U	5.0	50
Chloroethane	50	U	50	50
Chloroform	2500		7.0	50
Chloromethane	50	U	16	50
3-Chloro-1-propene	50	U	10	50
cis-1,3-Dichloropropene	50	U	5.5	50
1,2-Dibromo-3-Chloropropane	50	U	22	50
Dibromomethane	50	U	10	50
Dichlorobromomethane	50	U	12	50
Dichlorodifluoromethane	50	U	12	50
1,1-Dichloroethane	50	U	12	50
1,2-Dichloroethane	50	U	5.0	50
1,1-Dichloroethene	50	U	5.5	50
1,2-Dichloropropane	50	U	6.5	50
Ethylbenzene	380		5.5	50
Ethylene Dibromide	50	U	12	50
Ethyl methacrylate	50	U	12	50
2-Hexanone	500	U	50	500
Iodomethane	250	U	50	250
Isobutyl alcohol	2000	U	550	2000
Methacrylonitrile	1000	U	160	1000
Methylene Chloride	2700		50	250
Methyl methacrylate	50	U	24	50
4-Methyl-2-pentanone (MIBK)	140	J	50	500
Pentachloroethane	250	U	60	250
Propionitrile	1000	U	230	1000
Styrene	50	U	5.5	50
1,1,1,2-Tetrachloroethane	50	U	16	50
1,1,2,2-Tetrachloroethane	50	U	9.0	50
Tetrachloroethene	9.7	J	7.5	50
Toluene	1000		16	50
trans-1,4-Dichloro-2-butene	100	U	25	100
trans-1,2-Dichloroethene	50	U	10	50
trans-1,3-Dichloropropene	50	U	10	50

Client: Ashland Inc. Job Number: 680-58415-1

Client Sample ID: **MW15D**

Lab Sample ID: 680-58415-1 Date Sampled: 06/08/2010 1400
Client Matrix: Water Date Received: 06/10/2010 0810

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-171613 Instrument ID: MSO2
Preparation: 5030B Lab File ID: o0058.d
Dilution: 50 Initial Weight/Volume: 5 mL
Date Analyzed: 06/15/2010 1700 Final Weight/Volume: 5 mL
Date Prepared: 06/15/2010 1700

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	50	U	25	50
1,1,2-Trichloroethane	50	U	6.5	50
Trichloroethene	50	U	6.5	50
Trichlorofluoromethane	50	U	12	50
1,2,3-Trichloropropane	50	U	20	50
Vinyl acetate	100	U	14	100
Vinyl chloride	50	U	9.0	50
Xylenes, Total	1800		10	100

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	95		75 - 120
Dibromofluoromethane	94		75 - 121
Toluene-d8 (Surr)	101		75 - 120

DATA REPORTING QUALIFIERS

Client: Ashland Inc. Job Number: 680-58415-1

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

QUALITY CONTROL RESULTS

Client: Ashland Inc. Job Number: 680-58415-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:680-171613					
LCS 680-171613/10	Lab Control Sample	T	Water	8260B	
LCSD 680-171613/11	Lab Control Sample Duplicate	T	Water	8260B	
MB 680-171613/13	Method Blank	T	Water	8260B	
680-58415-1	MW15D	T	Water	8260B	

Report Basis
T = Total

Client: Ashland Inc.

Job Number: 680-58415-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	BFB %Rec	DBFM %Rec	TOL %Rec
680-58415-1	MW15D	95	94	101
MB 680-171613/13		92	97	101
LCS 680-171613/10		97	102	97
LCSD 680-171613/11		96	102	99

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene	75-120
DBFM = Dibromofluoromethane	75-121
TOL = Toluene-d8 (Surr)	75-120

Client: Ashland Inc. Job Number: 680-58415-1

Method Blank - Batch: 680-171613

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-171613/13
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/15/2010 1144
Date Prepared: 06/15/2010 1144

Analysis Batch: 680-171613
Prep Batch: N/A
Units: ug/L

Instrument ID: MSO2
Lab File ID: oq046.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0

Client: Ashland Inc.

Job Number: 680-58415-1

Method Blank - Batch: 680-171613

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-171613/13
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/15/2010 1144
Date Prepared: 06/15/2010 1144

Analysis Batch: 680-171613
Prep Batch: N/A
Units: ug/L

Instrument ID: MSO2
Lab File ID: oq046.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	92	75 - 120
Dibromofluoromethane	97	75 - 121
Toluene-d8 (Surr)	101	75 - 120

Client: Ashland Inc. Job Number: 680-58415-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-171613

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 680-171613/10
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/15/2010 0950
Date Prepared: 06/15/2010 0950

Analysis Batch: 680-171613
Prep Batch: N/A
Units: ug/L

Instrument ID: MSO2
Lab File ID: oq038.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

LCSD Lab Sample ID: LCSD 680-171613/11
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/15/2010 1018
Date Prepared: 06/15/2010 1018

Analysis Batch: 680-171613
Prep Batch: N/A
Units: ug/L

Instrument ID: MSO2
Lab File ID: oq040.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	97	95	17 - 175	2	50		
Benzene	99	99	77 - 119	0	30		
Bromoform	96	94	62 - 133	2	30		
Bromomethane	94	93	12 - 184	0	50		
2-Butanone (MEK)	89	91	33 - 157	3	30		
Carbon disulfide	104	103	55 - 131	1	30		
Carbon tetrachloride	102	99	71 - 135	3	30		
Chlorobenzene	95	93	85 - 116	2	30		
Chlorodibromomethane	102	99	75 - 133	2	30		
Chloroethane	99	95	40 - 165	4	50		
Chloroform	102	102	82 - 120	0	30		
Chloromethane	90	90	48 - 142	0	50		
cis-1,3-Dichloropropene	104	104	76 - 126	0	30		
1,2-Dibromo-3-Chloropropane	93	95	49 - 140	2	30		
Dibromomethane	96	95	78 - 119	0	30		
Dichlorobromomethane	102	101	78 - 127	1	30		
Dichlorodifluoromethane	100	100	34 - 154	1	30		
1,1-Dichloroethane	103	103	74 - 127	0	30		
1,2-Dichloroethane	97	96	66 - 132	0	30		
1,1-Dichloroethene	109	105	62 - 141	3	30		
1,2-Dichloropropane	101	100	73 - 124	2	30		
Ethylbenzene	99	97	86 - 116	2	30		
Ethylene Dibromide	97	99	80 - 121	2	30		
2-Hexanone	89	90	34 - 161	1	30		
Methylene Chloride	100	100	70 - 125	0	30		
4-Methyl-2-pentanone (MIBK)	87	88	40 - 151	1	30		
Styrene	98	97	82 - 122	1	30		
1,1,1,2-Tetrachloroethane	96	97	81 - 128	0	30		
1,1,2,2-Tetrachloroethane	88	89	69 - 129	1	30		
Tetrachloroethene	97	94	76 - 126	2	30		
Toluene	101	101	81 - 117	1	30		
trans-1,2-Dichloroethene	99	98	72 - 131	1	30		
trans-1,3-Dichloropropene	107	107	73 - 128	0	30		
1,1,1-Trichloroethane	104	102	76 - 127	2	30		

Client: Ashland Inc. Job Number: 680-58415-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-171613

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-171613/10	Analysis Batch:	680-171613	Instrument ID:	MSO2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	oq038.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/15/2010 0950			Final Weight/Volume:	5 mL
Date Prepared:	06/15/2010 0950				

LCSD Lab Sample ID:	LCSD 680-171613/11	Analysis Batch:	680-171613	Instrument ID:	MSO2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	oq040.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/15/2010 1018			Final Weight/Volume:	5 mL
Date Prepared:	06/15/2010 1018				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,1,2-Trichloroethane	96	95	75 - 121	1	30		
Trichloroethene	97	97	84 - 115	1	30		
Trichlorofluoromethane	93	91	58 - 149	2	50		
1,2,3-Trichloropropane	90	91	70 - 130	2	30		
Vinyl acetate	107	108	10 - 217	1	30		
Vinyl chloride	92	90	59 - 144	2	50		
Xylenes, Total	97	97	84 - 118	1	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	97	96	75 - 120
Dibromofluoromethane	102	102	75 - 121
Toluene-d8 (Surr)	97	99	75 - 120

Client: Ashland Inc. Job Number: 680-58415-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 680-171613

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-171613/10	Units:	ug/L	LCSD Lab Sample ID:	LCSD 680-171613/11
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Date Analyzed:	06/15/2010 0950			Date Analyzed:	06/15/2010 1018
Date Prepared:	06/15/2010 0950			Date Prepared:	06/15/2010 1018

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Acetone	100	100	97.1	94.8
Benzene	50.0	50.0	49.5	49.4
Bromoform	50.0	50.0	48.1	47.2
Bromomethane	50.0	50.0	46.8	46.6
2-Butanone (MEK)	100	100	89.1	91.4
Carbon disulfide	50.0	50.0	51.8	51.3
Carbon tetrachloride	50.0	50.0	50.8	49.4
Chlorobenzene	50.0	50.0	47.3	46.5
Chlorodibromomethane	50.0	50.0	50.8	49.5
Chloroethane	50.0	50.0	49.3	47.3
Chloroform	50.0	50.0	50.9	51.0
Chloromethane	50.0	50.0	45.0	44.8
cis-1,3-Dichloropropene	50.0	50.0	51.9	51.8
1,2-Dibromo-3-Chloropropane	50.0	50.0	46.7	47.7
Dibromomethane	50.0	50.0	47.9	47.7
Dichlorobromomethane	50.0	50.0	50.8	50.5
Dichlorodifluoromethane	50.0	50.0	49.9	50.1
1,1-Dichloroethane	50.0	50.0	51.5	51.7
1,2-Dichloroethane	50.0	50.0	48.3	48.1
1,1-Dichloroethene	50.0	50.0	54.3	52.7
1,2-Dichloropropane	50.0	50.0	50.7	49.8
Ethylbenzene	50.0	50.0	49.3	48.4
Ethylene Dibromide	50.0	50.0	48.7	49.6
2-Hexanone	100	100	89.5	90.1
Methylene Chloride	50.0	50.0	49.8	49.9
4-Methyl-2-pentanone (MIBK)	100	100	87.4	88.3
Styrene	50.0	50.0	48.9	48.5
1,1,1,2-Tetrachloroethane	50.0	50.0	48.2	48.3
1,1,2,2-Tetrachloroethane	50.0	50.0	43.8	44.4
Tetrachloroethene	50.0	50.0	48.4	47.2
Toluene	50.0	50.0	50.6	50.3
trans-1,2-Dichloroethene	50.0	50.0	49.6	49.0
trans-1,3-Dichloropropene	50.0	50.0	53.6	53.5
1,1,1-Trichloroethane	50.0	50.0	52.0	50.9
1,1,2-Trichloroethane	50.0	50.0	48.1	47.5
Trichloroethene	50.0	50.0	48.6	48.3
Trichlorofluoromethane	50.0	50.0	46.3	45.4
1,2,3-Trichloropropane	50.0	50.0	44.8	45.5
Vinyl acetate	100	100	107	108
Vinyl chloride	50.0	50.0	46.2	45.2
Xylenes, Total	150	150	146	145

Client: Ashland Inc. Job Number: 680-58415-1

Laboratory Chronicle

Lab ID: 680-58415-1 **Client ID:** MW15D

Sample Date/Time: 06/08/2010 14:00 Received Date/Time: 06/10/2010 08:10

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-58415-A-1		680-171613		06/15/2010 1k:00	50	TAL SAV	RB
A:8260B	680-58415-A-1		680-171613		06/15/2010 17:00	50	TAL SAV	RB

Lab ID: MB **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	MB 680-171613/13		680-171613		06/15/2010 11:44	1	TAL SAV	RB
A:8260B	MB 680-171613/13		680-171613		06/15/2010 11:44	1	TAL SAV	RB

Lab ID: LCS **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCS 680-171613/10		680-171613		06/15/2010 09:50	1	TAL SAV	RB
A:8260B	LCS 680-171613/10		680-171613		06/15/2010 09:50	1	TAL SAV	RB

Lab ID: LCSD **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCSD 680-171613/11		680-171613		06/15/2010 10:18	1	TAL SAV	RB
A:8260B	LCSD 680-171613/11		680-171613		06/15/2010 10:18	1	TAL SAV	RB

Lab References:
TAL SAV = TestAmerica Savannah

Serial Number 031164

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

X TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

◯ Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO. JOB49509	PROJECT LOCATION (STATE) GA	MATRIX TYPE
TAL (LAB) PROJECT MANAGER Lidia Gilizia	P.O. NUMBER 4501306047	CONTRACT NO.	
CLIENT (SITE) PM Tim Hassett	CLIENT PHONE	CLIENT FAX	
CLIENT NAME Ashland Hercules	CLIENT E-MAIL		
CLIENT ADDRESS 2508 Cook St			
COMPANY CONTRACTING THIS WORK (if applicable)			

PAGE 1 OF 1

STANDARD REPORT DELIVERY X
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ◯
DATE DUE
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: VOCs / PRESERVATIVE: NUMBER OF CONTAINERS SUBMITTED	REMARKS
6/8/10	1400	MW15D	G	X				3	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	6/9/10	1650		6/10/10	0810			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
	6/9/10	16:50						

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
	6/10/10	0810	YES ◯ NO ◯		680-58415	1.0

Login Sample Receipt Check List

Client: Ashland Inc.

Job Number: 680-58415-1

Login Number: 58415

List Source: TestAmerica Savannah

Creator: Conner, Keaton

List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.0 C
COC is present.	True	
C2 C is filled out in ink and legible.	True	
C2 C is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	MS/MSD not requested (no additional volume provided).
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	N/A	
Sample Preservation Verified	True	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 680-59939-1

Job Description: Brunswick RFI Resample MW-44D/10D

For:
Ashland Inc.
500 Hercules Road
Wilmington, DE 19894

Attention: Timothy Hassett

Approved for release.
Lidya Gulizia
Project Manager I
8/13/2010 11:48 AM

Lidya Gulizia
Project Manager I
lidya.gulizia@testamericainc.com
08/13/2010

cc: Kelley Baker
Mr. Leroy Bishop
Mr. Dennis Brunner
Ryan Cate
Mr. Tony Mancini
Ms. Charlene Rivard

Savannah Certifications and ID #s: A2LA: 0399.01; AL: 41450; ARDEQ: 88-0692; ARDOH; AZ: AZ0741; CA: 03217CA; CO; CT: PH0161; DE; FL: E87052; GA: 803; Guam; HI; IL: 200022; IN; IA: 353; KS: E-10322; KY EPPC: 90084; KY UST; LA DEQ: 30690; LA DHH: LA080008; ME: 2008022; MD: 250; MA: M-GA006; MI: 9925; MS; NFESC: 249; NV: GA00006; NJ: GA769; NM; NY: 10842; NC DWQ: 269; NC DHHS: 13701; PA: 68-00474; PR: GA00006; RI: LAO00244; SC: 98001001; TN: TN0296; TX: T104704185; USEPA: GA00006; VT: VT-87052; VA: 00302; WA; WV DEP: 094; WV DHHR: 9950 C; WI DNR: 999819810; WY/EPAR8: 8TMS-Q

TestAmerica Laboratories, Inc.
TestAmerica Savannah 5102 LaRoche Avenue, Savannah, GA 31404
Tel (912) 354-7858 Fax (912) 352-0165 www.testamericainc.com

ACCREDITED IN ACCORDANCE WITH nelac

Receipt
All samples were received in good condition within temperature requirements.

GC/MS VOA
No analytical or quality issues were noted.

GC Semi VOA
Method(s) 8081B/8082A: Internal standard (ISTD) response for the following sample(s) exceeded the control limit on Column two: MW-10D_20100731 (680-59939-5), MW-44D_20100731 (680-59939-3) and the associated MS/MSD (680-59939-3 MS and 680-59939-3 MSD). As such, the sample results associated with this ISTD were reported from the other column, which met ISTD acceptance criteria.

No other analytical or quality issues were noted.

Comments
No additional comments.

METHOD SUMMARY

Client: Ashland Inc. Job Number: 680-59939-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL SAV	SW846 8260B	
Purge and Trap	TAL SAV		SW846 5030B
Organochlorine Pesticides & PCBs (GC)	TAL SAV	SW846 8081A_8082	
Liquid-Liquid Extraction (Continuous)	TAL SAV		SW846 3520C
Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography	TAL SAV	SW846 8081B/8082A	
Liquid-Liquid Extraction (Continuous)	TAL SAV		SW846 3520C

Lab References:

TAL SAV = TestAmerica Savannah

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Ashland Inc. Job Number: 680-59939-1

Method	Analyst	Analyst ID
SW846 8260B	Bearden, Robert	RB
SW846 8081A_8082	Kellar, Joshua	JK
SW846 8081B/8082A	Kellar, Joshua	JK

SAMPLE SUMMARY

Client: Ashland Inc. Job Number: 680-59939-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-59939-1TB	TB1_20100731	Water	07/29/2010 0000	07/30/2010 0938
680-59939-2FB	FB1_20100731	Water	07/29/2010 1415	07/30/2010 0938
680-59939-3	MW-44D_20100731	Water	07/29/2010 1336	07/30/2010 0938
680-59939-4EB	EB1_20100731	Water	07/29/2010 1425	07/30/2010 0938
680-59939-5	MW-10D_20100731	Water	07/29/2010 1602	07/30/2010 0938

SAMPLE RESULTS

Client: Ashland Inc. Job Number: 680-59939-1

Client Sample ID: **TB1_20100731**

Lab Sample ID: 680-59939-1TB Date Sampled: 07/29/2010 0000
Client Matrix: Water Date Received: 07/30/2010 0938

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-176139 Instrument ID: MSO2
Preparation: 5030B Lab File ID: o0154.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 08/03/2010 1335 Final Weight/Volume: 5 mL
Date Prepared: 08/03/2010 1335

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,2-Dichloroethene	1.0	U	0.15	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0

Client: Ashland Inc. Job Number: 680-59939-1

Client Sample ID: **TB1_20100731**

Lab Sample ID: 680-59939-1TB Date Sampled: 07/29/2010 0000
Client Matrix: Water Date Received: 07/30/2010 0938

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-176139 Instrument ID: MSO2
Preparation: 5030B Lab File ID: o0154.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 08/03/2010 1335 Final Weight/Volume: 5 mL
Date Prepared: 08/03/2010 1335

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.21	1.0
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U *	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	92		75 - 120
Dibromofluoromethane	98		75 - 121
Toluene-d8 (Surr)	99		75 - 120

Client: Ashland Inc. Job Number: 680-59939-1

Client Sample ID: **FB1_20100731**

Lab Sample ID: 680-59939-2FB Date Sampled: 07/29/2010 1415
Client Matrix: Water Date Received: 07/30/2010 0938

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-176139 Instrument ID: MSO2
Preparation: 5030B Lab File ID: o0156.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 08/03/2010 1403 Final Weight/Volume: 5 mL
Date Prepared: 08/03/2010 1403

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,2-Dichloroethene	1.0	U	0.15	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0

Client: Ashland Inc. Job Number: 680-59939-1

Client Sample ID: **FB1_20100731**

Lab Sample ID: 680-59939-2FB Date Sampled: 07/29/2010 1415
Client Matrix: Water Date Received: 07/30/2010 0938

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-176139 Instrument ID: MSO2
Preparation: 5030B Lab File ID: o0156.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 08/03/2010 1403 Final Weight/Volume: 5 mL
Date Prepared: 08/03/2010 1403

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.21	1.0
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U *	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	94		75 - 120
Dibromofluoromethane	99		75 - 121
Toluene-d8 (Surr)	100		75 - 120

Client: Ashland Inc. Job Number: 680-59939-1

Client Sample ID: **MW-44D_20100731**

Lab Sample ID: 680-59939-3 Date Sampled: 07/29/2010 1336
Client Matrix: Water Date Received: 07/30/2010 0938

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-176139		Instrument ID:	MSO2
Preparation:	5030B			Lab File ID:	o0158.d
Dilution:	2.0			Initial Weight/Volume:	5 mL
Date Analyzed:	08/03/2010 1432			Final Weight/Volume:	5 mL
Date Prepared:	08/03/2010 1432				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	50	U	10	50
Acetonitrile	80	U	20	80
Acrolein	40	U	15	40
Acrylonitrile	40	U	14	40
Benzene	730	E	0.50	2.0
Bromoform	2.0	U	1.0	2.0
Bromomethane	2.0	U	1.6	2.0
2-Butanone (MEK)	20	U	2.0	20
Carbon disulfide	4.0	U	1.2	4.0
Carbon tetrachloride	2.0	U	1.0	2.0
Chlorobenzene	140		0.50	2.0
2-Chloro-1,3-butadiene	2.0	U	0.60	2.0
Chlorodibromomethane	2.0	U	0.20	2.0
Chloroethane	2.0	U	2.0	2.0
Chloroform	2.0	U	0.28	2.0
Chloromethane	2.0	U	0.66	2.0
3-Chloro-1-propene	2.0	U	0.40	2.0
cis-1,2-Dichloroethene	1.1	J	0.30	2.0
cis-1,3-Dichloropropene	2.0	U	0.22	2.0
1,2-Dibromo-3-Chloropropane	2.0	U	0.88	2.0
Dibromomethane	2.0	U	0.40	2.0
Dichlorobromomethane	2.0	U	0.50	2.0
Dichlorodifluoromethane	2.0	U	0.50	2.0
1,1-Dichloroethane	2.0	U	0.50	2.0
1,2-Dichloroethane	18		0.20	2.0
1,1-Dichloroethene	2.0	U	0.22	2.0
1,2-Dichloropropane	2.0	U	0.26	2.0
Ethylbenzene	9.5		0.22	2.0
Ethylene Dibromide	2.0	U	0.50	2.0
Ethyl methacrylate	2.0	U	0.50	2.0
2-Hexanone	20	U	2.0	20
Iodomethane	10	U	2.0	10
Isobutyl alcohol	80	U	22	80
Methacrylonitrile	40	U	6.6	40
Methylene Chloride	10	U	2.0	10
Methyl methacrylate	2.0	U	0.96	2.0
4-Methyl-2-pentanone (MIBK)	20	U	2.0	20
Pentachloroethane	10	U	2.4	10
Propionitrile	40	U	9.2	40
Styrene	2.0	U	0.22	2.0
1,1,1,2-Tetrachloroethane	2.0	U	0.66	2.0
1,1,2,2-Tetrachloroethane	2.0	U	0.36	2.0
Tetrachloroethene	2.0	U	0.30	2.0
Toluene	7.1		0.66	2.0
trans-1,4-Dichloro-2-butene	4.0	U	1.0	4.0
trans-1,2-Dichloroethene	2.0	U	0.40	2.0

Client: Ashland Inc. Job Number: 680-59939-1

Client Sample ID: **MW-44D_20100731**

Lab Sample ID: 680-59939-3 Date Sampled: 07/29/2010 1336
Client Matrix: Water Date Received: 07/30/2010 0938

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-176139	Instrument ID:	MSO2
Preparation:	5030B		Lab File ID:	o0158.d
Dilution:	2.0		Initial Weight/Volume:	5 mL
Date Analyzed:	08/03/2010 1432		Final Weight/Volume:	5 mL
Date Prepared:	08/03/2010 1432			

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	2.0	U	0.42	2.0
1,1,1-Trichloroethane	2.0	U	1.0	2.0
1,1,2-Trichloroethane	2.0	U	0.26	2.0
Trichloroethene	2.0	U	0.26	2.0
Trichlorofluoromethane	2.0	U	0.50	2.0
1,2,3-Trichloropropane	2.0	U	0.82	2.0
Vinyl acetate	4.0	U *	0.56	4.0
Vinyl chloride	2.0	U	0.36	2.0
Xylenes, Total	4.9		0.40	4.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	96		75 - 120
Dibromofluoromethane	85		75 - 121
Toluene-d8 (Surr)	100		75 - 120

Client: Ashland Inc. Job Number: 680-59939-1

Client Sample ID: **MW-44D_20100731**

Lab Sample ID: 680-59939-3 Date Sampled: 07/29/2010 1336
Client Matrix: Water Date Received: 07/30/2010 0938

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-176139		Instrument ID:	MSO2
Preparation:	5030B			Lab File ID:	o0164.d
Dilution:	5.0			Initial Weight/Volume:	5 mL
Date Analyzed:	08/03/2010 1557	Run Type: DL		Final Weight/Volume:	5 mL
Date Prepared:	08/03/2010 1557				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	120	U	25	120
Acetonitrile	200	U	50	200
Acrolein	100	U	37	100
Acrylonitrile	100	U	36	100
Benzene	540	D	1.2	5.0
Bromoform	5.0	U	2.5	5.0
Bromomethane	5.0	U	4.0	5.0
2-Butanone (MEK)	50	U	5.0	50
Carbon disulfide	10	U	3.0	10
Carbon tetrachloride	5.0	U	2.5	5.0
Chlorobenzene	130	D	1.2	5.0
2-Chloro-1,3-butadiene	5.0	U	1.5	5.0
Chlorodibromomethane	5.0	U	0.50	5.0
Chloroethane	5.0	U	5.0	5.0
Chloroform	0.90	J D	0.70	5.0
Chloromethane	5.0	U	1.6	5.0
3-Chloro-1-propene	5.0	U	1.0	5.0
cis-1,2-Dichloroethene	1.3	J D	0.75	5.0
cis-1,3-Dichloropropene	5.0	U	0.55	5.0
1,2-Dibromo-3-Chloropropane	5.0	U	2.2	5.0
Dibromomethane	5.0	U	1.0	5.0
Dichlorobromomethane	5.0	U	1.2	5.0
Dichlorodifluoromethane	5.0	U	1.2	5.0
1,1-Dichloroethane	5.0	U	1.2	5.0
1,2-Dichloroethane	13	D	0.50	5.0
1,1-Dichloroethene	5.0	U	0.55	5.0
1,2-Dichloropropane	5.0	U	0.65	5.0
Ethylbenzene	8.7	D	0.55	5.0
Ethylene Dibromide	5.0	U	1.2	5.0
Ethyl methacrylate	5.0	U	1.2	5.0
2-Hexanone	50	U	5.0	50
Iodomethane	25	U	5.0	25
Isobutyl alcohol	200	U	55	200
Methacrylonitrile	100	U	16	100
Methylene Chloride	25	U	5.0	25
Methyl methacrylate	5.0	U	2.4	5.0
4-Methyl-2-pentanone (MIBK)	50	U	5.0	50
Pentachloroethane	25	U	6.0	25
Propionitrile	100	U	23	100
Styrene	5.0	U	0.55	5.0
1,1,1,2-Tetrachloroethane	5.0	U	1.6	5.0
1,1,2,2-Tetrachloroethane	5.0	U	0.90	5.0
Tetrachloroethene	5.0	U	0.75	5.0
Toluene	6.2	D	1.6	5.0
trans-1,4-Dichloro-2-butene	10	U	2.5	10
trans-1,2-Dichloroethene	5.0	U	1.0	5.0

Client: Ashland Inc. Job Number: 680-59939-1

Client Sample ID: **MW-44D_20100731**

Lab Sample ID: 680-59939-3 Date Sampled: 07/29/2010 1336
Client Matrix: Water Date Received: 07/30/2010 0938

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-176139		Instrument ID:	MSO2
Preparation:	5030B			Lab File ID:	o0164.d
Dilution:	5.0			Initial Weight/Volume:	5 mL
Date Analyzed:	08/03/2010 1557	Run Type: DL		Final Weight/Volume:	5 mL
Date Prepared:	08/03/2010 1557				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	5.0	U	1.0	5.0
1,1,1-Trichloroethane	5.0	U	2.5	5.0
1,1,2-Trichloroethane	5.0	U	0.65	5.0
Trichloroethene	5.0	U	0.65	5.0
Trichlorofluoromethane	5.0	U	1.2	5.0
1,2,3-Trichloropropane	5.0	U	2.0	5.0
Vinyl acetate	10	U *	1.4	10
Vinyl chloride	5.0	U	0.90	5.0
Xylenes, Total	5.3	J D	1.0	10

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	97		75 - 120
Dibromofluoromethane	90		75 - 121
Toluene-d8 (Surr)	99		75 - 120

Client: Ashland Inc. Job Number: 680-59939-1

Client Sample ID: **EB1_20100731**

Lab Sample ID: 680-59939-4EB Date Sampled: 07/29/2010 1425
Client Matrix: Water Date Received: 07/30/2010 0938

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-176139 Instrument ID: MSO2
Preparation: 5030B Lab File ID: o0160.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 08/03/2010 1500 Final Weight/Volume: 5 mL
Date Prepared: 08/03/2010 1500

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,2-Dichloroethene	1.0	U	0.15	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0

Client: Ashland Inc. Job Number: 680-59939-1

Client Sample ID: **EB1_20100731**

Lab Sample ID: 680-59939-4EB Date Sampled: 07/29/2010 1425
Client Matrix: Water Date Received: 07/30/2010 0938

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-176139 Instrument ID: MSO2
Preparation: 5030B Lab File ID: o0160.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 08/03/2010 1500 Final Weight/Volume: 5 mL
Date Prepared: 08/03/2010 1500

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.21	1.0
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U *	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	95		75 - 120
Dibromofluoromethane	98		75 - 121
Toluene-d8 (Surr)	100		75 - 120

Client: Ashland Inc. Job Number: 680-59939-1

Client Sample ID: **MW-10D_20100731**

Lab Sample ID: 680-59939-5 Date Sampled: 07/29/2010 1602
Client Matrix: Water Date Received: 07/30/2010 0938

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-176139 Instrument ID: MSO2
Preparation: 5030B Lab File ID: o0162.d
Dilution: 100 Initial Weight/Volume: 5 mL
Date Analyzed: 08/03/2010 1529 Final Weight/Volume: 5 mL
Date Prepared: 08/03/2010 1529

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	2500	U	500	2500
Acetonitrile	4000	U	1000	4000
Acrolein	2000	U	740	2000
Acrylonitrile	2000	U	720	2000
Benzene	780		25	100
Bromoform	100	U	50	100
Bromomethane	100	U	80	100
2-Butanone (MEK)	1000	U	100	1000
Carbon disulfide	200	U	60	200
Carbon tetrachloride	100	U	50	100
Chlorobenzene	1700		25	100
2-Chloro-1,3-butadiene	100	U	30	100
Chlorodibromomethane	100	U	10	100
Chloroethane	100	U	100	100
Chloroform	49000	E	14	100
Chloromethane	100	U	33	100
3-Chloro-1-propene	100	U	20	100
cis-1,2-Dichloroethene	100	U	15	100
cis-1,3-Dichloropropene	100	U	11	100
1,2-Dibromo-3-Chloropropane	100	U	44	100
Dibromomethane	100	U	20	100
Dichlorobromomethane	100	U	25	100
Dichlorodifluoromethane	100	U	25	100
1,1-Dichloroethane	100	U	25	100
1,2-Dichloroethane	100	U	10	100
1,1-Dichloroethene	100	U	11	100
1,2-Dichloropropane	100	U	13	100
Ethylbenzene	19	J	11	100
Ethylene Dibromide	100	U	25	100
Ethyl methacrylate	100	U	25	100
2-Hexanone	1000	U	100	1000
Iodomethane	500	U	100	500
Isobutyl alcohol	4000	U	1100	4000
Methacrylonitrile	2000	U	330	2000
Methylene Chloride	8800		100	500
Methyl methacrylate	100	U	48	100
4-Methyl-2-pentanone (MIBK)	1000	U	100	1000
Pentachloroethane	500	U	120	500
Propionitrile	2000	U	460	2000
Styrene	100	U	11	100
1,1,1,2-Tetrachloroethane	100	U	33	100
1,1,2,2-Tetrachloroethane	100	U	18	100
Tetrachloroethene	27	J	15	100
Toluene	70	J	33	100
trans-1,4-Dichloro-2-butene	200	U	50	200
trans-1,2-Dichloroethene	100	U	20	100

Client: Ashland Inc. Job Number: 680-59939-1

Client Sample ID: **MW-10D_20100731**

Lab Sample ID: 680-59939-5 Date Sampled: 07/29/2010 1602
Client Matrix: Water Date Received: 07/30/2010 0938

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-176139	Instrument ID:	MSO2
Preparation:	5030B		Lab File ID:	o0162.d
Dilution:	100		Initial Weight/Volume:	5 mL
Date Analyzed:	08/03/2010 1529		Final Weight/Volume:	5 mL
Date Prepared:	08/03/2010 1529			

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	100	U	21	100
1,1,1-Trichloroethane	100	U	50	100
1,1,2-Trichloroethane	100	U	13	100
Trichloroethene	100	U	13	100
Trichlorofluoromethane	100	U	25	100
1,2,3-Trichloropropane	100	U	41	100
Vinyl acetate	200	U *	28	200
Vinyl chloride	100	U	18	100
Xylenes, Total	100	J	20	200

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	91		75 - 120
Dibromofluoromethane	95		75 - 121
Toluene-d8 (Surr)	97		75 - 120

Client: Ashland Inc. Job Number: 680-59939-1

Client Sample ID: **MW-10D_20100731**

Lab Sample ID: 680-59939-5 Date Sampled: 07/29/2010 1602
Client Matrix: Water Date Received: 07/30/2010 0938

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-176139		Instrument ID:	MSO2
Preparation:	5030B			Lab File ID:	o0168.d
Dilution:	500			Initial Weight/Volume:	5 mL
Date Analyzed:	08/03/2010 1655	Run Type: DL		Final Weight/Volume:	5 mL
Date Prepared:	08/03/2010 1655				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	12000	U	2500	12000
Acetonitrile	20000	U	5000	20000
Acrolein	10000	U	3700	10000
Acrylonitrile	10000	U	3600	10000
Benzene	870	D	120	500
Bromoform	500	U	250	500
Bromomethane	500	U	400	500
2-Butanone (MEK)	5000	U	500	5000
Carbon disulfide	1000	U	300	1000
Carbon tetrachloride	500	U	250	500
Chlorobenzene	1800	D	120	500
2-Chloro-1,3-butadiene	500	U	150	500
Chlorodibromomethane	500	U	50	500
Chloroethane	500	U	500	500
Chloroform	41000	D	70	500
Chloromethane	500	U	160	500
3-Chloro-1-propene	500	U	100	500
cis-1,2-Dichloroethene	500	U	75	500
cis-1,3-Dichloropropene	500	U	55	500
1,2-Dibromo-3-Chloropropane	500	U	220	500
Dibromomethane	500	U	100	500
Dichlorobromomethane	500	U	120	500
Dichlorodifluoromethane	500	U	120	500
1,1-Dichloroethane	500	U	120	500
1,2-Dichloroethane	500	U	50	500
1,1-Dichloroethene	500	U	55	500
1,2-Dichloropropane	500	U	65	500
Ethylbenzene	500	U	55	500
Ethylene Dibromide	500	U	120	500
Ethyl methacrylate	500	U	120	500
2-Hexanone	5000	U	500	5000
Iodomethane	2500	U	500	2500
Isobutyl alcohol	20000	U	5500	20000
Methacrylonitrile	10000	U	1600	10000
Methylene Chloride	8700	D	500	2500
Methyl methacrylate	500	U	240	500
4-Methyl-2-pentanone (MIBK)	5000	U	500	5000
Pentachloroethane	2500	U	600	2500
Propionitrile	10000	U	2300	10000
Styrene	500	U	55	500
1,1,1,2-Tetrachloroethane	500	U	160	500
1,1,2,2-Tetrachloroethane	500	U	90	500
Tetrachloroethene	500	U	75	500
Toluene	500	U	160	500
trans-1,4-Dichloro-2-butene	1000	U	250	1000
trans-1,2-Dichloroethene	500	U	100	500

Client: Ashland Inc. Job Number: 680-59939-1

Client Sample ID: **MW-10D_20100731**

Lab Sample ID: 680-59939-5 Date Sampled: 07/29/2010 1602
Client Matrix: Water Date Received: 07/30/2010 0938

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-176139		Instrument ID:	MSO2
Preparation:	5030B			Lab File ID:	o0168.d
Dilution:	500			Initial Weight/Volume:	5 mL
Date Analyzed:	08/03/2010 1655	Run Type: DL		Final Weight/Volume:	5 mL
Date Prepared:	08/03/2010 1655				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	500	U	100	500
1,1,1-Trichloroethane	500	U	250	500
1,1,2-Trichloroethane	500	U	65	500
Trichloroethene	500	U	65	500
Trichlorofluoromethane	500	U	120	500
1,2,3-Trichloropropane	500	U	200	500
Vinyl acetate	1000	U *	140	1000
Vinyl chloride	500	U	90	500
Xylenes, Total	110	J D	100	1000

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	96		75 - 120
Dibromofluoromethane	95		75 - 121
Toluene-d8 (Surr)	98		75 - 120

Client: Ashland Inc. Job Number: 680-59939-1

Client Sample ID: **MW-44D_20100731**

Lab Sample ID: 680-59939-3 Date Sampled: 07/29/2010 1336
Client Matrix: Water Date Received: 07/30/2010 0938

8081A_8082 Organochlorine Pesticides & PCBs (GC)

Method:	8081A_8082	Analysis Batch: 680-176464		Instrument ID:	SGM
Preparation:	3520C	Prep Batch: 680-176188		Initial Weight/Volume:	500 mL
Dilution:	1.0			Final Weight/Volume:	5 mL
Date Analyzed:	08/05/2010 1642			Injection Volume:	2 uL
Date Prepared:	08/04/2010 1347			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Total	3.9	J	0.50	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	57		14 - 115
Tetrachloro-m-xylene	43		35 - 120

Client: Ashland Inc. Job Number: 680-59939-1

Client Sample ID: **MW-10D_20100731**

Lab Sample ID: 680-59939-5 Date Sampled: 07/29/2010 1602
Client Matrix: Water Date Received: 07/30/2010 0938

8081A_8082 Organochlorine Pesticides & PCBs (GC)

Method:	8081A_8082	Analysis Batch: 680-176464		Instrument ID:	SGM
Preparation:	3520C	Prep Batch: 680-176188		Initial Weight/Volume:	1050 mL
Dilution:	1.0			Final Weight/Volume:	10 mL
Date Analyzed:	08/05/2010 1722			Injection Volume:	2 uL
Date Prepared:	08/04/2010 1347			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Total	38		0.48	4.8

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	11	X	14 - 115
Tetrachloro-m-xylene	81		35 - 120

Client: Ashland Inc. Job Number: 680-59939-1

Client Sample ID: **MW-44D_20100731**

Lab Sample ID: 680-59939-3 Date Sampled: 07/29/2010 1336
Client Matrix: Water Date Received: 07/30/2010 0938

8081B/8082A Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Method:	8081B/8082A	Analysis Batch: 680-176450		Instrument ID:	SGM
Preparation:	3520C	Prep Batch: 680-176188		Initial Weight/Volume:	500 mL
Dilution:	1.0			Final Weight/Volume:	5 mL
Date Analyzed:	08/05/2010 1642			Injection Volume:	2 uL
Date Prepared:	08/04/2010 1347			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Technical	5.0	U	0.50	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	65		14 - 115
Tetrachloro-m-xylene	43		35 - 120

Client: Ashland Inc. Job Number: 680-59939-1

Client Sample ID: **MW-10D_20100731**

Lab Sample ID: 680-59939-5 Date Sampled: 07/29/2010 1602
Client Matrix: Water Date Received: 07/30/2010 0938

8081B/8082A Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Method:	8081B/8082A	Analysis Batch: 680-176450	Instrument ID: SGM
Preparation:	3520C	Prep Batch: 680-176188	Initial Weight/Volume: 1050 mL
Dilution:	1.0		Final Weight/Volume: 10 mL
Date Analyzed:	08/05/2010 1722		Injection Volume: 2 uL
Date Prepared:	08/04/2010 1347		Result Type: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toxaphene, Technical	4.8	U	0.48	4.8

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	11	X	14 - 115
Tetrachloro-m-xylene	81		35 - 120

DATA REPORTING QUALIFIERS

Client: Ashland Inc. Job Number: 680-59939-1

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Indicates the analyte was analyzed for but not detected.
	*	LCS or LCSD exceeds the control limits
	E	Result exceeded calibration range.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
GC Semi VOA		
	U	Indicates the analyte was analyzed for but not detected.
	F	MS or MSD exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	X	Surrogate is outside control limits

QUALITY CONTROL RESULTS

Client: Ashland Inc. Job Number: 680-59939-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:680-176139					
LCS 680-176139/7	Lab Control Sample	T	Water	8260B	
MB 680-176139/9	Method Blank	T	Water	8260B	
680-59939-1TB	TB1_20100731	T	Water	8260B	
680-59939-2FB	FB1_20100731	T	Water	8260B	
680-59939-3	MW-44D_20100731	T	Water	8260B	
680-59939-3DL	MW-44D_20100731	T	Water	8260B	
680-59939-4EB	EB1_20100731	T	Water	8260B	
680-59939-5	MW-10D_20100731	T	Water	8260B	
680-59939-5DL	MW-10D_20100731	T	Water	8260B	

Report Basis
T = Total

GC Semi VOA					
Prep Batch: 680-176188					
LCS 680-176188/12-A	Lab Control Sample	T	Water	3520C	
MB 680-176188/5-A	Method Blank	T	Water	3520C	
680-59939-3	MW-44D_20100731	T	Water	3520C	
680-59939-3MS	Matrix Spike	T	Water	3520C	
680-59939-3MSD	Matrix Spike Duplicate	T	Water	3520C	
680-59939-5	MW-10D_20100731	T	Water	3520C	
Analysis Batch:680-176450					
LCS 680-176188/12-A	Lab Control Sample	T	Water	8081B/8082A	680-176188
MB 680-176188/5-A	Method Blank	T	Water	8081B/8082A	680-176188
680-59939-3	MW-44D_20100731	T	Water	8081B/8082A	680-176188
680-59939-3MS	Matrix Spike	T	Water	8081B/8082A	680-176188
680-59939-3MSD	Matrix Spike Duplicate	T	Water	8081B/8082A	680-176188
680-59939-5	MW-10D_20100731	T	Water	8081B/8082A	680-176188
Analysis Batch:680-176464					
LCS 680-176188/12-A	Lab Control Sample	T	Water	8081A_8082	680-176188
MB 680-176188/5-A	Method Blank	T	Water	8081A_8082	680-176188
680-59939-3	MW-44D_20100731	T	Water	8081A_8082	680-176188
680-59939-3MS	Matrix Spike	T	Water	8081A_8082	680-176188
680-59939-3MSD	Matrix Spike Duplicate	T	Water	8081A_8082	680-176188
680-59939-5	MW-10D_20100731	T	Water	8081A_8082	680-176188

Report Basis
T = Total

Client: Ashland Inc. Job Number: 680-59939-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	BFB %Rec	DBFM %Rec	TOL %Rec
680-59939-1	TB1_20100731	92	28	22
680-59939-2	FB1_20100731	94	99	100
680-59939-3	MW-44D_20100731	96	85	100
680-59939-3 DL	MW-44D_20100731 DL	97	90	99
680-59939-4	EB1_20100731	95	98	100
680-59939-5	MW-10D_20100731	91	95	97
680-59939-5 DL	MW-10D_20100731 DL	96	95	98
MB 680-176139/9		93	97	101
LCS 680-176139/7		99	102	100

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene	75-120
DBFM = Dibromofluoromethane	75-121
TOL = Toluene-d8 (Surr)	75-120

Client: Ashland Inc. Job Number: 680-59939-1

Surrogate Recovery Report

8081A_8082_Organochlorine Pesticides & PCBs (GC)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCB1 %Rec	TCX1 %Rec
680-59939-3	MW-44D_20100731	57	43
680-59939-5	MW-10D_20100731	11X	81
MB 680-176188/5-A		71	88
LCS 680-176188/12-A		71	86
680-59939-3 MS	MW-44D_20100731 MS	55	45
680-59939-3 MSD	MW-44D_20100731 MSD	58	47

Surrogate	Acceptance Limits
DCB = DCB Decachlorobiphenyl	14-115
TCX = Tetrachloro-m-xylene	35-120

Client: Ashland Inc. Job Number: 680-59939-1

Surrogate Recovery Report

8081B/8082A Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCB1 %Rec	DCB2 %Rec	TCX1 %Rec	TCX2 %Rec
680-59939-3	MW-44D_20100731	65		43	
680-59939-5	MW-10D_20100731	11X		81	
MB 680-176188/5-A			91		93
LCS 680-176188/12-A			77		94
680-59939-3 MS	MW-44D_20100731 MS	55		45	
680-59939-3 MSD	MW-44D_20100731 MSD	58		47	

Surrogate	Acceptance Limits
DCB = DCB Decachlorobiphenyl	14-115
TCX = Tetrachloro-m-xylene	35-120

Client: Ashland Inc. Job Number: 680-59939-1

Method Blank - Batch: 680-176139

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-176139/9
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/03/2010 1141
Date Prepared: 08/03/2010 1141

Analysis Batch: 680-176139
Prep Batch: N/A
Units: ug/L

Instrument ID: MSO2
Lab File ID: oq264.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,2-Dichloroethene	1.0	U	0.15	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0

Client: Ashland Inc. Job Number: 680-59939-1

Method Blank - Batch: 680-176139

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-176139/9
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/03/2010 1141
Date Prepared: 08/03/2010 1141

Analysis Batch: 680-176139
Prep Batch: N/A
Units: ug/L

Instrument ID: MSO2
Lab File ID: oq264.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Toluene	1.0	U	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	93	75 - 120
Dibromofluoromethane	97	75 - 121
Toluene-d8 (Surr)	101	75 - 120

Client: Ashland Inc. Job Number: 680-59939-1

Lab Control Sample - Batch: 680-176139

Method: 8260B
Preparation: 5030B

Lab Sample ID: LCS 680-176139/7
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/03/2010 1005
Date Prepared: 08/03/2010 1005

Analysis Batch: 680-176139
Prep Batch: N/A
Units: ug/L

Instrument ID: MSO2
Lab File ID: oq258.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acetone	100	89.3	89	17 - 175	
Benzene	50.0	49.4	99	77 - 119	
Bromoform	50.0	51.5	103	62 - 133	
Bromomethane	50.0	28.8	58	12 - 184	
2-Butanone (MEK)	100	96.6	97	33 - 157	
Carbon disulfide	50.0	47.7	95	55 - 131	
Carbon tetrachloride	50.0	51.6	103	71 - 135	
Chlorobenzene	50.0	49.5	99	85 - 116	
Chlorodibromomethane	50.0	52.3	105	75 - 133	
Chloroethane	50.0	36.7	73	40 - 165	
Chloroform	50.0	51.7	103	82 - 120	
Chloromethane	50.0	40.1	80	48 - 142	
cis-1,2-Dichloroethene	50.0	50.1	100	69 - 134	
cis-1,3-Dichloropropene	50.0	50.9	102	76 - 126	
1,2-Dibromo-3-Chloropropane	50.0	54.3	109	49 - 140	
Dibromomethane	50.0	46.8	94	78 - 119	
Dichlorobromomethane	50.0	50.6	101	78 - 127	
Dichlorodifluoromethane	50.0	42.2	84	34 - 154	
1,1-Dichloroethane	50.0	52.2	104	74 - 127	
1,2-Dichloroethane	50.0	48.8	98	66 - 132	
1,1-Dichloroethene	50.0	48.1	96	62 - 141	
1,2-Dichloropropane	50.0	49.5	99	73 - 124	
Ethylbenzene	50.0	51.2	102	86 - 116	
Ethylene Dibromide	50.0	49.6	99	80 - 121	
2-Hexanone	100	104	104	34 - 161	
Methylene Chloride	50.0	49.5	99	70 - 125	
4-Methyl-2-pentanone (MIBK)	100	97.7	98	40 - 151	
Styrene	50.0	48.6	97	82 - 122	
1,1,1,2-Tetrachloroethane	50.0	48.9	98	81 - 128	
1,1,2,2-Tetrachloroethane	50.0	50.0	100	69 - 129	
Tetrachloroethene	50.0	50.5	101	76 - 126	
Toluene	50.0	49.3	99	81 - 117	
trans-1,2-Dichloroethene	50.0	48.4	97	72 - 131	
trans-1,3-Dichloropropene	50.0	52.6	105	73 - 128	
1,1,1-Trichloroethane	50.0	50.7	101	76 - 127	
1,1,2-Trichloroethane	50.0	49.9	100	75 - 121	
Trichloroethene	50.0	48.9	98	84 - 115	
Trichlorofluoromethane	50.0	43.8	88	58 - 149	
1,2,3-Trichloropropane	50.0	49.6	99	70 - 130	
Vinyl acetate	100	218	218	10 - 217	*
Vinyl chloride	50.0	45.9	92	59 - 144	
Xylenes, Total	150	144	96	84 - 118	

Client: Ashland Inc. Job Number: 680-59939-1

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	99	75 - 120
Dibromofluoromethane	102	75 - 121
Toluene-d8 (Surr)	100	75 - 120

Client: Ashland Inc. Job Number: 680-59939-1

Method Blank - Batch: 680-176188

Method: 8081A_8082
Preparation: 3520C

Lab Sample ID: MB 680-176188/5-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/05/2010 1326
Date Prepared: 08/04/2010 1347

Analysis Batch: 680-176464
Prep Batch: 680-176188
Units: ug/L

Instrument ID: SGM
Lab File ID: mh04074.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
Toxaphene, Total	5.0	U	0.50	5.0

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	71	14 - 115
Tetrachloro-m-xylene	88	35 - 120

Lab Control Sample - Batch: 680-176188

Method: 8081A_8082
Preparation: 3520C

Lab Sample ID: LCS 680-176188/12-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/05/2010 1524
Date Prepared: 08/04/2010 1347

Analysis Batch: 680-176464
Prep Batch: 680-176188
Units: ug/L

Instrument ID: SGM
Lab File ID: mh04080.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Toxaphene, Total	10.0	7.06	71	30 - 120	

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	71	14 - 115
Tetrachloro-m-xylene	86	35 - 120

Client: Ashland Inc. Job Number: 680-59939-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-176188

Method: 8081A_8082
Preparation: 3520C

MS Lab Sample ID:	680-59939-3	Analysis Batch: 680-176464	Instrument ID: SGM
Client Matrix:	Water	Prep Batch: 680-176188	Lab File ID: mh04091.d
Bilution:	1.0		Initial Weight/Volume: 500 mL
Date Analyzed:	08/05/2010 1900		Final Weight/Volume: 5 mL
Date Prepared:	08/04/2010 1347		Injection Volume: 2 uL
			Column ID: PRIMARY

MSD Lab Sample ID:	680-59939-3	Analysis Batch: 680-176464	Instrument ID: SGM
Client Matrix:	Water	Prep Batch: 680-176188	Lab File ID: mh04092.d
Bilution:	1.0		Initial Weight/Volume: 500 mL
Date Analyzed:	08/05/2010 1919		Final Weight/Volume: 5 mL
Date Prepared:	08/04/2010 1347		Injection Volume: 2 uL
			Column ID: PRIMARY

	% Rec.					
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Toxaphene, Total	61	27	30 - 120	40	40		F

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
DCB Decachlorobiphenyl	55	58	14 - 115
Tetrachloro-m-xylene	45	47	35 - 120

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-176188

Method: 8081A_8082
Preparation: 3520C

MS Lab Sample ID:	680-59939-3	Units: ug/L	MSD Lab Sample ID: 680-59939-3
Client Matrix:	Water		Client Matrix: Water
Dilution:	1.0		Dilution: 1.0
Date Analyzed:	08/05/2010 1900		Date Analyzed: 08/05/2010 1919
Date Prepared:	08/04/2010 1347		Date Prepared: 08/04/2010 1347

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual	
Toxaphene, Total	3.9	J	10.0	10.0	9.96	6.63	F

Method Blank - Batch: 680-176188

Method: 8081B/8082A
Preparation: 3520C

Lab Sample ID: MB 680-176188/5-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/05/2010 1326
Date Prepared: 08/04/2010 1347

Analysis Batch: 680-176450
Prep Batch: 680-176188
Units: ug/L

Instrument ID: SGM
Lab File ID: mh04074.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
Toxaphene, Technical	5.0	U	0.50	5.0

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	91	14 - 115
Tetrachloro-m-xylene	93	35 - 120

Lab Control Sample - Batch: 680-176188

Method: 8081B/8082A
Preparation: 3520C

Lab Sample ID: LCS 680-176188/12-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/05/2010 1524
Date Prepared: 08/04/2010 1347

Analysis Batch: 680-176450
Prep Batch: 680-176188
Units: ug/L

Instrument ID: SGM
Lab File ID: mh04080.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Toxaphene, Technical	10.0	10.6	106	30 - 120	

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	77	14 - 115
Tetrachloro-m-xylene	94	35 - 120

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-176188

Method: 8081B/8082A
Preparation: 3520C

MS Lab Sample ID:	680-59939-3	Analysis Batch:	680-176450	Instrument ID:	SGM
Client Matrix:	Water	Prep Batch:	680-176188	Lab File ID:	mh04091.d
Bilution:	1.0			Initial Weight/Volume:	500 mL
Date Analyzed:	08/05/2010 1900			Final Weight/Volume:	5 mL
Date Prepared:	08/04/2010 1347			Injection Volume:	2 uL
				Column ID:	PRIMARY

MSD Lab Sample ID:	680-59939-3	Analysis Batch:	680-176450	Instrument ID:	SGM
Client Matrix:	Water	Prep Batch:	680-176188	Lab File ID:	mh04092.d
Bilution:	1.0			Initial Weight/Volume:	500 mL
Date Analyzed:	08/05/2010 1919			Final Weight/Volume:	5 mL
Date Prepared:	08/04/2010 1347			Injection Volume:	2 uL
				Column ID:	PRIMARY

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Toxaphene, Technical	83	71	30 - 120	16	40		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
DCB Decachlorobiphenyl	55	58	14 - 115
Tetrachloro-m-xylene	45	47	35 - 120

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-176188

Method: 8081B/8082A
Preparation: 3520C

MS Lab Sample ID:	680-59939-3	Units: ug/L		MSD Lab Sample ID:	680-59939-3
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Date Analyzed:	08/05/2010 1900			Date Analyzed:	08/05/2010 1919
Date Prepared:	08/04/2010 1347			Date Prepared:	08/04/2010 1347

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Toxaphene, Technical	5.0	U	10.0	10.0	8.28	7.07

Client: Ashland Inc. Job Number: 680-59939-1

Laboratory Chronicle

Lab ID: 680-59939-1 **Client ID: TB1_20100731**

Sample Date/Time: 07/29/2010 00:00 Received Date/Time: 07/30/2010 09:38

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-59939-A-1		680-176139		08/03/2010 13:35	1	TAL SAV	RB
A:8260B	680-59939-A-1		680-176139		08/03/2010 13:35	1	TAL SAV	RB

Lab ID: 680-59939-2 **Client ID: FB1_20100731**

Sample Date/Time: 07/29/2010 14:15 Received Date/Time: 07/30/2010 09:38

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-59939-A-2		680-176139		08/03/2010 14:03	1	TAL SAV	RB
A:8260B	680-59939-A-2		680-176139		08/03/2010 14:03	1	TAL SAV	RB

Lab ID: 680-59939-3 **Client ID: MW-44D_20100731**

Sample Date/Time: 07/29/2010 13:36 Received Date/Time: 07/30/2010 09:38

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-59939-C-3		680-176139		08/03/2010 14:32	2	TAL SAV	RB
A:8260B	680-59939-C-3		680-176139		08/03/2010 14:32	2	TAL SAV	RB
P:5030B	680-59939-D-3	DL	680-176139		08/03/2010 15:57	5	TAL SAV	RB
A:8260B	680-59939-D-3	DL	680-176139		08/03/2010 15:57	5	TAL SAV	RB
P:3520C	680-59939-A-3-A		680-176464	680-176188	08/04/2010 13:47	1	TAL SAV	RBS
A:8081A_8082	680-59939-A-3-A		680-176464	680-176188	08/05/2010 16:42	1	TAL SAV	JK
P:3520C	680-59939-A-3-A		680-176450	680-176188	08/04/2010 13:47	1	TAL SAV	RBS
A:8081B/8082A	680-59939-A-3-A		680-176450	680-176188	08/05/2010 16:42	1	TAL SAV	JK

Lab ID: 680-59939-3 MS **Client ID: MW-44D_20100731**

Sample Date/Time: 07/29/2010 13:36 Received Date/Time: 07/30/2010 09:38

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3520C	680-59939-B-3-A MS		680-176464	680-176188	08/04/2010 13:47	1	TAL SAV	RBS
A:8081A_8082	680-59939-B-3-A MS		680-176464	680-176188	08/05/2010 19:00	1	TAL SAV	JK
P:3520C	680-59939-B-3-A MS		680-176450	680-176188	08/04/2010 13:47	1	TAL SAV	RBS
A:8081B/8082A	680-59939-B-3-A MS		680-176450	680-176188	08/05/2010 19:00	1	TAL SAV	JK

Client: Ashland Inc. Job Number: 680-59939-1

Laboratory Chronicle

Lab ID: 680-59939-3 MSD **Client ID:** MW-44D_20100731

Sample Date/Time: 07/29/2010 13:36 Received Date/Time: 07/30/2010 09:38

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3520C	680-59939-B-3-B MSD		680-176464	680-176188	08/04/2010 13:47	1	TAL SAV	RBS
A:8081A_8082	680-59939-B-3-B MSD		680-176464	680-176188	08/05/2010 19:19	1	TAL SAV	JK
P:3520C	680-59939-B-3-B MSD		680-176450	680-176188	08/04/2010 13:47	1	TAL SAV	RBS
A:8081B/8082A	680-59939-B-3-B MSD		680-176450	680-176188	08/05/2010 19:19	1	TAL SAV	JK

Lab ID: 680-59939-4 **Client ID:** EB1_20100731

Sample Date/Time: 07/29/2010 14:25 Received Date/Time: 07/30/2010 09:38

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-59939-A-4		680-176139		08/03/2010 15:00	1	TAL SAV	RB
A:8260B	680-59939-A-4		680-176139		08/03/2010 15:00	1	TAL SAV	RB

Lab ID: 680-59939-5 **Client ID:** MW-10D_20100731

Sample Date/Time: 07/29/2010 16:02 Received Date/Time: 07/30/2010 09:38

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-59939-C-5		680-176139		08/03/2010 15:29	100	TAL SAV	RB
A:8260B	680-59939-C-5		680-176139		08/03/2010 15:29	100	TAL SAV	RB
P:5030B	680-59939-C-5	DL	680-176139		08/03/2010 16:55	500	TAL SAV	RB
A:8260B	680-59939-C-5	DL	680-176139		08/03/2010 16:55	500	TAL SAV	RB
P:3520C	680-59939-A-5-A		680-176464	680-176188	08/04/2010 13:47	1	TAL SAV	RBS
A:8081A_8082	680-59939-A-5-A		680-176464	680-176188	08/05/2010 17:22	1	TAL SAV	JK
P:3520C	680-59939-A-5-A		680-176450	680-176188	08/04/2010 13:47	1	TAL SAV	RBS
A:8081B/8082A	680-59939-A-5-A		680-176450	680-176188	08/05/2010 17:22	1	TAL SAV	JK

Lab ID: MB **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	MB 680-176139/9		680-176139		08/03/2010 11:41	1	TAL SAV	RB
A:8260B	MB 680-176139/9		680-176139		08/03/2010 11:41	1	TAL SAV	RB
P:3520C	MB 680-176188/5-A		680-176464	680-176188	08/04/2010 13:47	1	TAL SAV	RBS
A:8081A_8082	MB 680-176188/5-A		680-176464	680-176188	08/05/2010 13:26	1	TAL SAV	JK
P:3520C	MB 680-176188/5-A		680-176450	680-176188	08/04/2010 13:47	1	TAL SAV	RBS
A:8081B/8082A	MB 680-176188/5-A		680-176450	680-176188	08/05/2010 13:26	1	TAL SAV	JK

Client: Ashland Inc. Job Number: 680-59939-1

Laboratory Chronicle

Lab ID: LCS **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCS 680-176139/7		680-176139		08/03/2010 10:05	1	TAL SAV	RB
A:8260B	LCS 680-176139/7		680-176139		08/03/2010 10:05	1	TAL SAV	RB
P:3520C	LCS 680-176188/12-A		680-176464	680-176188	08/04/2010 13:47	1	TAL SAV	RBS
A:8081A_8082	LCS 680-176188/12-A		680-176464	680-176188	08/05/2010 15:24	1	TAL SAV	JK
P:3520C	LCS 680-176188/12-A		680-176450	680-176188	08/04/2010 13:47	1	TAL SAV	RBS
A:8081B/8082A	LCS 680-176188/12-A		680-176450	680-176188	08/05/2010 15:24	1	TAL SAV	JK

Lab References:
TAL SAV = TestAmerica Savannah

Serial Number 032668

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

4501306047
J0984950?

- [x] TestAmerica Savannah
  5102 LaRoche Avenue
  Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

- [ ] Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE: MW 10D and 44D Re-Sample	PROJECT NO.	PROJECT LOCATION (STATE): GA
TAL (LAB) PROJECT MANAGER: Lidya Gulizia	P.O. NUMBER: ~~J0984950?~~	CONTRACT NO.
CLIENT (SITE) PM: Tim Hassett	CLIENT PHONE: 803-404-5904	CLIENT FAX
CLIENT NAME: Ashland-Hercules	CLIENT E-MAIL	
CLIENT ADDRESS		
COMPANY CONTRACTING THIS WORK (if applicable): Delta Consultants		

PAGE 1 OF 1

STANDARD REPORT DELIVERY ○ DATE DUE ____

EXPEDITED REPORT DELIVERY (SURCHARGE) ○ DATE DUE ____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

REQUIRED ANALYSIS / PRESERVATIVE / NUMBER OF CONTAINERS SUBMITTED

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	~~Appdx 9 Pest/PCBs~~	~~TOC~~	~~Grain Size~~	Toxaphene 8081	Tech. Toxaphene	VOC's	REMARKS
~~7/29/10~~	~~930~~	~~Terry Creek Outfall Sed. Sample~~	~~C~~		~~X~~									
		TB1_20100731		X									3	
7/29/10	1415	FB1_20100731		X									3	
7/29/10	1336	MW-44D		X							←2→		3	
7/29/10	1425	EB1-20100731		X									3	
7/29/10	1602	MW-10D		X							←2→		3	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	7/30/10	9:30						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
[signature]	7/30/10	09:38	YES ○ NO ○		680-59939	2.6°C

TAL8240-680 (1207)

Login Sample Receipt Check List

Client: Ashland Inc.

Job Number: 680-59939-1

Login Number: 59939

List Source: TestAmerica Savannah

Creator: Conner, Keaton

List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-79571-1
Client Project/Site: HERC Brunswick Ph 3 RFI - GW MAY 2012

For:
Ashland Inc.
Ashland Hercules Research Center
500 Hercules Rd Bldg 8139
Wilmington, Delaware 19808

Attn: Timothy Hassett

Authorized for release by:
6/7/2012 4:36:42 PM

Lidya Gulizia
Project Manager II
lidya.gulizia@testamericainc.com

cc: Tony Mancini

Table of Contents

Job ID: 680-79571-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Ashland Inc.

Project: HERC Brunswick Ph 3 RFI - GW MAY 2012

Report Number: 680-79571-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 05/17/2012; the samples arrived in good condition, properly preserved and on ice. The temperatures of the 5 coolers at receipt time were 2.0º C, 2.2º C, 4.0º C, 4.0º C and 4.2º C.

Chloroethane failed the recovery criteria low for LCSD 680-238122/5. Refer to the QC report for details.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Sample MW-42S (680-79571-16) was analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 05/22/2012.

No difficulties were encountered during the volatiles analysis.

All quality control parameters were within the acceptance limits.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples MW-42I (680-79571-1), MW-42D (680-79571-2), MW-43S (680-79571-3), MW-43I (680-79571-4), MW-43D (680-79571-5), MW-49S (680-79571-6), MW-49I (680-79571-7), MW-49D (680-79571-8), Dup-1 (680-79571-9), Trip Blank 2 (680-79571-10), FB-1 (680-79571-11), EB-1 (680-79571-12), EB-2 (680-79571-13) and EB-3 (680-79571-14) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 05/18/2012, 05/19/2012 and 05/20/2012.

The continuing calibration verification (CCV) for analytical batch(s) 237953, 237899 and 237819 exceeded average % Drift (%D) control criteria. These are in-house criteria established because limits for these compounds are not specified in the reference method. The %RSDs for all analytes of concern were within established in-house limits; therefore, the data have been reported.

The following analyte recovered outside control limits for the LCS/LCSD associated with batch 238122: chloroethane.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for batch 238266 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.
Refer to the QC report for details.

Samples MW-42I (680-79571-1)[50X], MW-42D (680-79571-2)[5X] and MW-43D (680-79571-5)[50X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Job ID: 680-79571-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

No other difficulties were encountered during the volatiles analyses.

All other quality control parameters were within the acceptance limits.

PESTICIDES AND PCBS

Samples MW-42I (680-79571-1), MW-42D (680-79571-2), MW-43S (680-79571-3), MW-43I (680-79571-4), MW-43D (680-79571-5), Dup-1 (680-79571-9), EB-1 (680-79571-12), EB-2 (680-79571-13), EB-3 (680-79571-14) and MW-42S (680-79571-15) were analyzed for Pesticides and PCBs in accordance with EPA SW846 Method 8081A_8082. The samples were prepared on 05/18/2012 and 05/28/2012 and analyzed on 05/24/2012, 05/25/2012 and 05/31/2012.

This method incorporates 2nd column confirmation. Corrective action is not taken for surrogate/spike compounds unless results from both columns are unacceptable. Results outside criteria are qualified.

Two surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: MW-43S (680-79571-3), EB-3 (680-79571-14), MW-43I (680-79571-4), MW-43S (680-79571-3), Dup-1 (680-79571-9), Dup-1 (680-79571-9 MS), Dup-1 (680-79571-9 MSD), EB-1 (680-79571-12), EB-2 (680-79571-13). These results have been reported and qualified.

Due to the level of dilution required for the following sample(s), surrogate recoveries are not reported: MW-42D (680-79571-2), MW-42I (680-79571-1), MW-42S (680-79571-15), MW-43D (680-79571-5).

Surrogate recovery for the following sample(s) was outside control limits: (LCS 680-237769/21-A), (MB 680-237769/17-A). All associated samples were re-extracted outside of holding time with acceptable results. Both sets of data were reported.

Toxaphene, Technical failed the recovery criteria high for the MS and MSD of sample Dup-1MS (680-79571-9) in batch 680-238799. Refer to the QC report for details.

The following sample was diluted due to the nature of the sample matrix: MW-42D (680-79571-2), MW-42I (680-79571-1), MW-42S (680-79571-15), MW-43D (680-79571-5). As such, surrogate recoveries are not reported, and elevated reporting limits (RLs) are provided.

Samples MW-42I (680-79571-1)[10X], MW-42D (680-79571-2)[10X], MW-43D (680-79571-5)[10X], MW-42S (680-79571-15)[50X] and MW-42S (680-79571-15)[500X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the Pesticides and PCBs analyses.

All other quality control parameters were within the acceptance limits.

METALS (ICP)

Samples MW-42I (680-79571-1), MW-42D (680-79571-2), MW-43S (680-79571-3), MW-43I (680-79571-4), MW-43D (680-79571-5), Dup-1 (680-79571-9), EB-1 (680-79571-12), EB-2 (680-79571-13) and EB-3 (680-79571-14) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010B. The samples were prepared on 05/21/2012 and 05/25/2012 and analyzed on 05/23/2012 and 05/25/2012.

No difficulties were encountered during the metals analyses.

All quality control parameters were within the acceptance limits.

TOTAL MERCURY

Samples MW-42I (680-79571-1), MW-42D (680-79571-2), MW-43S (680-79571-3), MW-43I (680-79571-4), MW-43D (680-79571-5), Dup-1 (680-79571-9), EB-1 (680-79571-12), EB-2 (680-79571-13) and EB-3 (680-79571-14) were analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 05/18/2012 and analyzed on 05/22/2012.

No difficulties were encountered during the mercury analyses.

All quality control parameters were within the acceptance limits.

Sample Summary

Client: Ashland Inc.
Project/Site: HERC Brunswick Ph 3 RFI - GW MAY 2012

TestAmerica Job ID: 680-79571-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-79571-1	MW-42I	Water	05/16/12 15:50	05/17/12 10:35
680-79571-2	MW-42D	Water	05/16/12 15:30	05/17/12 10:35
680-79571-3	MW-43S	Water	05/16/12 13:30	05/17/12 10:35
680-79571-4	MW-43I	Water	05/16/12 13:20	05/17/12 10:35
680-79571-5	MW-43D	Water	05/16/12 13:00	05/17/12 10:35
680-79571-6	MW-49S	Water	05/16/12 14:50	05/17/12 10:35
680-79571-7	MW-49I	Water	05/16/12 14:40	05/17/12 10:35
680-79571-8	MW-49D	Water	05/16/12 14:20	05/17/12 10:35
680-79571-9	Dup-1	Water	05/16/12 00:00	05/17/12 10:35
680-79571-10	Trip Blank 2	Water	05/16/12 00:00	05/17/12 10:35
680-79571-11	FB-1	Water	05/16/12 00:00	05/17/12 10:35
680-79571-12	EB-1	Water	05/16/12 11:15	05/17/12 10:35
680-79571-13	EB-2	Water	05/16/12 11:30	05/17/12 10:35
680-79571-14	EB-3	Water	05/16/12 11:45	05/17/12 10:35
680-79571-15	MW-42S	Water	05/16/12 19:30	05/17/12 10:35
680-79571-16	MW-42S	Waste	05/16/12 19:30	05/17/12 10:35

Method Summary

Client: Ashland Inc.
Project/Site: HERC Brunswick Ph 3 RFI - GW MAY 2012

TestAmerica Job ID: 680-79571-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
8081A_8082	Organochlorine Pesticides & PCBs (GC)	SW846	TAL SAV
6010B	Metals (ICP)	SW846	TAL SAV
7470A	Mercury (CVAA)	SW846	TAL SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD exceeds the control limits
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
H	Sample was prepped or analyzed beyond the specified holding time
X	Surrogate is outside control limits
F	MS or MSD exceeds the control limits

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: Ashland Inc.
Project/Site: HERC Brunswick Ph 3 RFI - GW MAY 2012

TestAmerica Job ID: 680-79571-1

Client Sample ID: MW-42I — Lab Sample ID: 680-79571-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3100		1300	250	ug/L	50		8260B	Total/NA
Benzene	2800		50	13	ug/L	50		8260B	Total/NA
Carbon disulfide	520		100	30	ug/L	50		8260B	Total/NA
Carbon tetrachloride	8400		50	25	ug/L	50		8260B	Total/NA
Chloroform	4600		50	7.0	ug/L	50		8260B	Total/NA
1,1-Dichloroethene	11	J	50	5.5	ug/L	50		8260B	Total/NA
Ethylbenzene	280		50	5.5	ug/L	50		8260B	Total/NA
Methylene Chloride	280		250	50	ug/L	50		8260B	Total/NA
2-Butanone (MEK)	100	J	500	50	ug/L	50		8260B	Total/NA
4-Methyl-2-pentanone (MIBK)	760		500	50	ug/L	50		8260B	Total/NA
Tetrachloroethene	14	J	50	7.5	ug/L	50		8260B	Total/NA
Toluene	120		50	17	ug/L	50		8260B	Total/NA
Xylenes, Total	190		100	10	ug/L	50		8260B	Total/NA
Toxaphene, TAUC, Parlar 11-69	28	J p	48	4.8	ug/L	10		8081A_8082	Total/NA
Toxaphene, TAUC, Parlar 11-69 - RE	99	H	48	4.8	ug/L	10		8081A_8082	Total/NA
Barium	0.19		0.010	0.0020	mg/L	1		6010B	Total Recoverable
Chromium	0.0026	J	0.010	0.0020	mg/L	1		6010B	Total Recoverable
Zinc	0.011	J	0.020	0.0063	mg/L	1		6010B	Total Recoverable

Client Sample ID: MW-42D — Lab Sample ID: 680-79571-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	200		5.0	1.3	ug/L	5		8260B	Total/NA
Chlorobenzene	34		5.0	1.3	ug/L	5		8260B	Total/NA
Chloroform	350		5.0	0.70	ug/L	5		8260B	Total/NA
1,1-Dichloroethene	2.9	J	5.0	0.55	ug/L	5		8260B	Total/NA
Ethylbenzene	26		5.0	0.55	ug/L	5		8260B	Total/NA
Methylene Chloride	30		25	5.0	ug/L	5		8260B	Total/NA
Tetrachloroethene	8.9		5.0	0.75	ug/L	5		8260B	Total/NA
Toluene	110		5.0	1.7	ug/L	5		8260B	Total/NA
Xylenes, Total	19		10	1.0	ug/L	5		8260B	Total/NA
Toxaphene, TAUC, Parlar 11-69	130		48	4.8	ug/L	10		8081A_8082	Total/NA
Toxaphene, Technical - RE	610	H	48	4.8	ug/L	10		8081A_8082	Total/NA
Toxaphene, TAUC, Parlar 11-69 - RE	720	H	48	4.8	ug/L	10		8081A_8082	Total/NA
Barium	1.1		0.010	0.0020	mg/L	1		6010B	Total Recoverable
Vanadium	0.0044	J	0.010	0.0030	mg/L	1		6010B	Total Recoverable

Client Sample ID: MW-43S — Lab Sample ID: 680-79571-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.083		0.010	0.0020	mg/L	1		6010B	Total Recoverable
Vanadium	0.0031	J	0.010	0.0030	mg/L	1		6010B	Total Recoverable

Client Sample ID: MW-43I — Lab Sample ID: 680-79571-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	0.27	J	1.0	0.25	ug/L	1		8260B	Total/NA
Chloroform	0.35	J	1.0	0.14	ug/L	1		8260B	Total/NA

Client Sample ID: MW-43I (Continued) — Lab Sample ID: 680-79571-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.18	J	1.0	0.15	ug/L	1		8260B	Total/NA
Xylenes, Total	1.0	J	2.0	0.20	ug/L	1		8260B	Total/NA
Toxaphene, TAUC, Parlar 11-69	2.4	J	4.9	0.49	ug/L	1		8081A_8082	Total/NA
Toxaphene, TAUC, Parlar 11-69 - RE	2.9	J H	4.8	0.48	ug/L	1		8081A_8082	Total/NA
Barium	0.17		0.010	0.0020	mg/L	1		6010B	Total Recoverable
Chromium	0.0054	J	0.010	0.0020	mg/L	1		6010B	Total Recoverable
Vanadium	0.0059	J	0.010	0.0030	mg/L	1		6010B	Total Recoverable

Client Sample ID: MW-43D — Lab Sample ID: 680-79571-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	270		50	13	ug/L	50		8260B	Total/NA
Chlorobenzene	410		50	13	ug/L	50		8260B	Total/NA
Chloroform	8000		50	7.0	ug/L	50		8260B	Total/NA
Ethylbenzene	8.3	J	50	5.5	ug/L	50		8260B	Total/NA
Methylene Chloride	2100		250	50	ug/L	50		8260B	Total/NA
Tetrachloroethene	13	J	50	7.5	ug/L	50		8260B	Total/NA
Toluene	44	J	50	17	ug/L	50		8260B	Total/NA
Xylenes, Total	18	J	100	10	ug/L	50		8260B	Total/NA
Toxaphene, TAUC, Parlar 11-69	24	J p	48	4.8	ug/L	10		8081A_8082	Total/NA
Toxaphene, TAUC, Parlar 11-69 - RE	98	H	48	4.8	ug/L	10		8081A_8082	Total/NA
Barium	0.44		0.010	0.0020	mg/L	1		6010B	Total Recoverable
Vanadium	0.0035	J	0.010	0.0030	mg/L	1		6010B	Total Recoverable

Client Sample ID: MW-49S — Lab Sample ID: 680-79571-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	1.9		1.0	0.33	ug/L	1		8260B	Total/NA

Client Sample ID: MW-49I — Lab Sample ID: 680-79571-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	15		1.0	0.25	ug/L	1		8260B	Total/NA
Carbon disulfide	1.9	J	2.0	0.60	ug/L	1		8260B	Total/NA
Chlorobenzene	1.7		1.0	0.25	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	0.18	J	1.0	0.15	ug/L	1		8260B	Total/NA
Ethylbenzene	0.43	J	1.0	0.11	ug/L	1		8260B	Total/NA
Trichloroethene	0.17	J	1.0	0.13	ug/L	1		8260B	Total/NA
Xylenes, Total	0.91	J	2.0	0.20	ug/L	1		8260B	Total/NA

Client Sample ID: MW-49D — Lab Sample ID: 680-79571-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.77	J	1.0	0.25	ug/L	1		8260B	Total/NA
Chloroform	0.23	J	1.0	0.14	ug/L	1		8260B	Total/NA
Tetrachloroethene	0.17	J	1.0	0.15	ug/L	1		8260B	Total/NA
Xylenes, Total	0.21	J	2.0	0.20	ug/L	1		8260B	Total/NA

Client Sample ID: Dup-1 — Lab Sample ID: 680-79571-9

Client Sample ID: Dup-1 (Continued) — Lab Sample ID: 680-79571-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	4.4		1.0	0.25	ug/L	1		8260B	Total/NA
Chlorobenzene	0.45	J	1.0	0.25	ug/L	1		8260B	Total/NA
Chloroform	0.30	J	1.0	0.14	ug/L	1		8260B	Total/NA
Ethylbenzene	0.12	J	1.0	0.11	ug/L	1		8260B	Total/NA
Xylenes, Total	1.4	J	2.0	0.20	ug/L	1		8260B	Total/NA
Toxaphene, TAUC, Parlar 11-69	4.2	J	5.0	0.50	ug/L	1		8081A_8082	Total/NA
Toxaphene, TAUC, Parlar 11-69 - RE	3.6	J H	4.9	0.49	ug/L	1		8081A_8082	Total/NA
Barium	0.16		0.010	0.0020	mg/L	1		6010B	Total Recoverable
Chromium	0.0051	J	0.010	0.0020	mg/L	1		6010B	Total Recoverable
Selenium	0.0064	J	0.020	0.0064	mg/L	1		6010B	Total Recoverable
Vanadium	0.0056	J	0.010	0.0030	mg/L	1		6010B	Total Recoverable

Client Sample ID: Trip Blank 2 — Lab Sample ID: 680-79571-10

No Detections

Client Sample ID: FB-1 — Lab Sample ID: 680-79571-11

No Detections

Client Sample ID: EB-1 — Lab Sample ID: 680-79571-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toxaphene, TAUC, Parlar 11-69	0.90	J	4.7	0.47	ug/L	1		8081A_8082	Total/NA

Client Sample ID: EB-2 — Lab Sample ID: 680-79571-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toxaphene, TAUC, Parlar 11-69	0.94	J	4.8	0.48	ug/L	1		8081A_8082	Total/NA

Client Sample ID: EB-3 — Lab Sample ID: 680-79571-14

No Detections

Client Sample ID: MW-42S — Lab Sample ID: 680-79571-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toxaphene, TAUC, Parlar 11-69	1000	J	2500	250	ug/L	500		8081A_8082	Total/NA
Toxaphene, Technical - RE	1200	H	250	25	ug/L	50		8081A_8082	Total/NA
Toxaphene, TAUC, Parlar 11-69 - RE	640	H	250	25	ug/L	50		8081A_8082	Total/NA

Client Sample ID: MW-42S — Lab Sample ID: 680-79571-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	5500		2100	2100	ug/Kg	40		8260B	Total/NA
Chlorobenzene	2400		2100	2100	ug/Kg	40		8260B	Total/NA
Chloroform	36000		2100	2100	ug/Kg	40		8260B	Total/NA

Client: Ashland Inc.
Project/Site: HERC Brunswick Ph 3 RFI - GW MAY 2012

TestAmerica Job ID: 680-79571-1

Client Sample ID: MW-42I
Date Collected: 05/16/12 15:50
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79571-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**3100**		1300	250	ug/L			05/19/12 16:09	50
Acetonitrile	2000	U	2000	500	ug/L			05/19/12 16:09	50
Acrolein	1000	U	1000	370	ug/L			05/19/12 16:09	50
Acrylonitrile	1000	U	1000	360	ug/L			05/19/12 16:09	50
Benzene	**2800**		50	13	ug/L			05/19/12 16:09	50
Bromoform	50	U	50	25	ug/L			05/19/12 16:09	50
Bromomethane	50	U	50	40	ug/L			05/19/12 16:09	50
Carbon disulfide	**520**		100	30	ug/L			05/19/12 16:09	50
Carbon tetrachloride	**8400**		50	25	ug/L			05/19/12 16:09	50
Chlorobenzene	50	U	50	13	ug/L			05/19/12 16:09	50
2-Chloro-1,3-butadiene	50	U	50	15	ug/L			05/19/12 16:09	50
Chlorodibromomethane	50	U	50	5.0	ug/L			05/19/12 16:09	50
Chloroethane	50	U	50	50	ug/L			05/19/12 16:09	50
Chloroform	**4600**		50	7.0	ug/L			05/19/12 16:09	50
Chloromethane	50	U	50	17	ug/L			05/19/12 16:09	50
3-Chloro-1-propene	50	U	50	10	ug/L			05/19/12 16:09	50
cis-1,2-Dichloroethene	50	U	50	7.5	ug/L			05/19/12 16:09	50
cis-1,3-Dichloropropene	50	U	50	5.5	ug/L			05/19/12 16:09	50
1,2-Dibromo-3-Chloropropane	50	U	50	22	ug/L			05/19/12 16:09	50
Dibromomethane	50	U	50	10	ug/L			05/19/12 16:09	50
Dichlorobromomethane	50	U	50	13	ug/L			05/19/12 16:09	50
Dichlorodifluoromethane	50	U	50	13	ug/L			05/19/12 16:09	50
1,1-Dichloroethane	50	U	50	13	ug/L			05/19/12 16:09	50
1,2-Dichloroethane	50	U	50	5.0	ug/L			05/19/12 16:09	50
1,1-Dichloroethene	**11**	**J**	50	5.5	ug/L			05/19/12 16:09	50
1,2-Dichloropropane	50	U	50	6.5	ug/L			05/19/12 16:09	50
Ethylbenzene	**280**		50	5.5	ug/L			05/19/12 16:09	50
Ethylene Dibromide	50	U	50	13	ug/L			05/19/12 16:09	50
Ethyl methacrylate	50	U	50	13	ug/L			05/19/12 16:09	50
2-Hexanone	500	U	500	50	ug/L			05/19/12 16:09	50
Iodomethane	250	U	250	50	ug/L			05/19/12 16:09	50
Isobutyl alcohol	2000	U	2000	550	ug/L			05/19/12 16:09	50
Methacrylonitrile	1000	U	1000	170	ug/L			05/19/12 16:09	50
Methylene Chloride	**280**		250	50	ug/L			05/19/12 16:09	50
2-Butanone (MEK)	**100**	**J**	500	50	ug/L			05/19/12 16:09	50
4-Methyl-2-pentanone (MIBK)	**760**		500	50	ug/L			05/19/12 16:09	50
Methyl methacrylate	50	U	50	24	ug/L			05/19/12 16:09	50
Pentachloroethane	250	U	250	60	ug/L			05/19/12 16:09	50
Propionitrile	1000	U	1000	230	ug/L			05/19/12 16:09	50
Styrene	50	U	50	5.5	ug/L			05/19/12 16:09	50
1,1,1,2-Tetrachloroethane	50	U	50	17	ug/L			05/19/12 16:09	50
1,1,2,2-Tetrachloroethane	50	U	50	9.0	ug/L			05/19/12 16:09	50
Tetrachloroethene	**14**	**J**	50	7.5	ug/L			05/19/12 16:09	50
Toluene	**120**		50	17	ug/L			05/19/12 16:09	50
trans-1,4-Dichloro-2-butene	100	U	100	25	ug/L			05/19/12 16:09	50
trans-1,2-Dichloroethene	50	U	50	10	ug/L			05/19/12 16:09	50
trans-1,3-Dichloropropene	50	U	50	11	ug/L			05/19/12 16:09	50
1,1,1-Trichloroethane	50	U	50	25	ug/L			05/19/12 16:09	50
1,1,2-Trichloroethane	50	U	50	6.5	ug/L			05/19/12 16:09	50
Trichloroethene	50	U	50	6.5	ug/L			05/19/12 16:09	50
Trichlorofluoromethane	50	U	50	13	ug/L			05/19/12 16:09	50

Client Sample ID: MW-42I
Date Collected: 05/16/12 15:50
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79571-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	50	U	50	21	ug/L			05/19/12 16:09	50
Vinyl acetate	100	U	100	14	ug/L			05/19/12 16:09	50
Vinyl chloride	50	U	50	9.0	ug/L			05/19/12 16:09	50
Xylenes, Total	**190**		100	10	ug/L			05/19/12 16:09	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*70 - 130*		*05/19/12 16:09*	*50*
Dibromofluoromethane	*97*		*70 - 130*		*05/19/12 16:09*	*50*
Toluene-d8 (Surr)	*110*		*70 - 130*		*05/19/12 16:09*	*50*

Method: 8081A_8082 - Organochlorine Pesticides & PCBs (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene, Technical	48	U	48	4.8	ug/L		05/18/12 15:41	05/24/12 19:59	10
Toxaphene, TAUC, Parlar 11-69	**28**	**J p**	48	4.8	ug/L		05/18/12 15:41	05/24/12 19:59	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*0*	*D*	*40 - 130*	*05/18/12 15:41*	*05/24/12 19:59*	*10*
DCB Decachlorobiphenyl	*0*	*D*	*40 - 130*	*05/18/12 15:41*	*05/24/12 19:59*	*10*
Tetrachloro-m-xylene	*0*	*D*	*36 - 130*	*05/18/12 15:41*	*05/24/12 19:59*	*10*
Tetrachloro-m-xylene	*0*	*D*	*36 - 130*	*05/18/12 15:41*	*05/24/12 19:59*	*10*

Method: 8081A_8082 - Organochlorine Pesticides & PCBs (GC) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene, Technical	48	U H	48	4.8	ug/L		05/28/12 15:21	05/31/12 20:24	10
Toxaphene, TAUC, Parlar 11-69	**99**	**H**	48	4.8	ug/L		05/28/12 15:21	05/31/12 20:24	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*0*	*D*	*40 - 130*	*05/28/12 15:21*	*05/31/12 20:24*	*10*
DCB Decachlorobiphenyl	*0*	*D*	*40 - 130*	*05/28/12 15:21*	*05/31/12 20:24*	*10*
Tetrachloro-m-xylene	*0*	*D*	*36 - 130*	*05/28/12 15:21*	*05/31/12 20:24*	*10*
Tetrachloro-m-xylene	*0*	*D*	*36 - 130*	*05/28/12 15:21*	*05/31/12 20:24*	*10*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.020	U	0.020	0.0052	mg/L		05/21/12 17:58	05/23/12 02:07	1
Arsenic	0.020	U	0.020	0.010	mg/L		05/21/12 17:58	05/23/12 02:07	1
Barium	**0.19**		0.010	0.0020	mg/L		05/21/12 17:58	05/23/12 02:07	1
Beryllium	0.0040	U	0.0040	0.00010	mg/L		05/21/12 17:58	05/23/12 02:07	1
Cadmium	0.0050	U	0.0050	0.0020	mg/L		05/21/12 17:58	05/23/12 02:07	1
Chromium	**0.0026**	**J**	0.010	0.0020	mg/L		05/21/12 17:58	05/23/12 02:07	1
Cobalt	0.010	U	0.010	0.0010	mg/L		05/21/12 17:58	05/23/12 02:07	1
Copper	0.020	U	0.020	0.0050	mg/L		05/21/12 17:58	05/23/12 02:07	1
Lead	0.010	U	0.010	0.0034	mg/L		05/21/12 17:58	05/23/12 02:07	1
Nickel	0.040	U	0.040	0.0040	mg/L		05/21/12 17:58	05/23/12 02:07	1
Selenium	0.020	U	0.020	0.0064	mg/L		05/21/12 17:58	05/23/12 02:07	1
Silver	0.010	U	0.010	0.00097	mg/L		05/21/12 17:58	05/23/12 02:07	1
Thallium	0.025	U	0.025	0.0087	mg/L		05/21/12 17:58	05/23/12 02:07	1
Tin	0.050	U	0.050	0.0054	mg/L		05/21/12 17:58	05/23/12 02:07	1
Vanadium	0.010	U	0.010	0.0030	mg/L		05/21/12 17:58	05/23/12 02:07	1
Zinc	**0.011**	**J**	0.020	0.0063	mg/L		05/21/12 17:58	05/23/12 02:07	1

Client: Ashland Inc.
Project/Site: HERC Brunswick Ph 3 RFI - GW MAY 2012

TestAmerica Job ID: 680-79571-1

Client Sample ID: MW-42I
Date Collected: 05/16/12 15:50
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79571-1
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020	0.000091	mg/L		05/18/12 12:35	05/22/12 10:34	1

Client: Ashland Inc.
Project/Site: HERC Brunswick Ph 3 RFI - GW MAY 2012

TestAmerica Job ID: 680-79571-1

Client Sample ID: MW-42D
Date Collected: 05/16/12 15:30
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79571-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	130	U	130	25	ug/L			05/20/12 21:29	5
Acetonitrile	200	U	200	50	ug/L			05/20/12 21:29	5
Acrolein	100	U	100	37	ug/L			05/20/12 21:29	5
Acrylonitrile	100	U	100	36	ug/L			05/20/12 21:29	5
Benzene	**200**		5.0	1.3	ug/L			05/20/12 21:29	5
Bromoform	5.0	U	5.0	2.5	ug/L			05/20/12 21:29	5
Bromomethane	5.0	U	5.0	4.0	ug/L			05/20/12 21:29	5
Carbon disulfide	10	U	10	3.0	ug/L			05/20/12 21:29	5
Carbon tetrachloride	5.0	U	5.0	2.5	ug/L			05/20/12 21:29	5
Chlorobenzene	**34**		5.0	1.3	ug/L			05/20/12 21:29	5
2-Chloro-1,3-butadiene	5.0	U	5.0	1.5	ug/L			05/20/12 21:29	5
Chlorodibromomethane	5.0	U	5.0	0.50	ug/L			05/20/12 21:29	5
Chloroethane	5.0	U	5.0	5.0	ug/L			05/20/12 21:29	5
Chloroform	**350**		5.0	0.70	ug/L			05/20/12 21:29	5
Chloromethane	5.0	U	5.0	1.7	ug/L			05/20/12 21:29	5
3-Chloro-1-propene	5.0	U	5.0	1.0	ug/L			05/20/12 21:29	5
cis-1,2-Dichloroethene	5.0	U	5.0	0.75	ug/L			05/20/12 21:29	5
cis-1,3-Dichloropropene	5.0	U	5.0	0.55	ug/L			05/20/12 21:29	5
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	2.2	ug/L			05/20/12 21:29	5
Dibromomethane	5.0	U	5.0	1.0	ug/L			05/20/12 21:29	5
Dichlorobromomethane	5.0	U	5.0	1.3	ug/L			05/20/12 21:29	5
Dichlorodifluoromethane	5.0	U	5.0	1.3	ug/L			05/20/12 21:29	5
1,1-Dichloroethane	5.0	U	5.0	1.3	ug/L			05/20/12 21:29	5
1,2-Dichloroethane	5.0	U	5.0	0.50	ug/L			05/20/12 21:29	5
1,1-Dichloroethene	**2.9**	**J**	5.0	0.55	ug/L			05/20/12 21:29	5
1,2-Dichloropropane	5.0	U	5.0	0.65	ug/L			05/20/12 21:29	5
Ethylbenzene	**26**		5.0	0.55	ug/L			05/20/12 21:29	5
Ethylene Dibromide	5.0	U	5.0	1.3	ug/L			05/20/12 21:29	5
Ethyl methacrylate	5.0	U	5.0	1.3	ug/L			05/20/12 21:29	5
2-Hexanone	50	U	50	5.0	ug/L			05/20/12 21:29	5
Iodomethane	25	U	25	5.0	ug/L			05/20/12 21:29	5
Isobutyl alcohol	200	U	200	55	ug/L			05/20/12 21:29	5
Methacrylonitrile	100	U	100	17	ug/L			05/20/12 21:29	5
Methylene Chloride	**30**		25	5.0	ug/L			05/20/12 21:29	5
2-Butanone (MEK)	50	U	50	5.0	ug/L			05/20/12 21:29	5
4-Methyl-2-pentanone (MIBK)	50	U	50	5.0	ug/L			05/20/12 21:29	5
Methyl methacrylate	5.0	U	5.0	2.4	ug/L			05/20/12 21:29	5
Pentachloroethane	25	U	25	6.0	ug/L			05/20/12 21:29	5
Propionitrile	100	U	100	23	ug/L			05/20/12 21:29	5
Styrene	5.0	U	5.0	0.55	ug/L			05/20/12 21:29	5
1,1,1,2-Tetrachloroethane	5.0	U	5.0	1.7	ug/L			05/20/12 21:29	5
1,1,2,2-Tetrachloroethane	5.0	U	5.0	0.90	ug/L			05/20/12 21:29	5
Tetrachloroethene	**8.9**		5.0	0.75	ug/L			05/20/12 21:29	5
Toluene	**110**		5.0	1.7	ug/L			05/20/12 21:29	5
trans-1,4-Dichloro-2-butene	10	U	10	2.5	ug/L			05/20/12 21:29	5
trans-1,2-Dichloroethene	5.0	U	5.0	1.0	ug/L			05/20/12 21:29	5
trans-1,3-Dichloropropene	5.0	U	5.0	1.1	ug/L			05/20/12 21:29	5
1,1,1-Trichloroethane	5.0	U	5.0	2.5	ug/L			05/20/12 21:29	5
1,1,2-Trichloroethane	5.0	U	5.0	0.65	ug/L			05/20/12 21:29	5
Trichloroethene	5.0	U	5.0	0.65	ug/L			05/20/12 21:29	5
Trichlorofluoromethane	5.0	U	5.0	1.3	ug/L			05/20/12 21:29	5

Client Sample ID: MW-42D
Date Collected: 05/16/12 15:30
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79571-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	5.0	U	5.0	2.1	ug/L			05/20/12 21:29	5
Vinyl acetate	10	U	10	1.4	ug/L			05/20/12 21:29	5
Vinyl chloride	5.0	U	5.0	0.90	ug/L			05/20/12 21:29	5
Xylenes, Total	**19**		10	1.0	ug/L			05/20/12 21:29	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*70 - 130*		*05/20/12 21:29*	*5*
Dibromofluoromethane	*98*		*70 - 130*		*05/20/12 21:29*	*5*
Toluene-d8 (Surr)	*108*		*70 - 130*		*05/20/12 21:29*	*5*

Method: 8081A_8082 - Organochlorine Pesticides & PCBs (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene, Technical	48	U	48	4.8	ug/L		05/18/12 15:41	05/24/12 20:18	10
Toxaphene, TAUC, Parlar 11-69	**130**		48	4.8	ug/L		05/18/12 15:41	05/24/12 20:18	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*0*	*D*	*40 - 130*	*05/18/12 15:41*	*05/24/12 20:18*	*10*
DCB Decachlorobiphenyl	*0*	*D*	*40 - 130*	*05/18/12 15:41*	*05/24/12 20:18*	*10*
Tetrachloro-m-xylene	*0*	*D*	*36 - 130*	*05/18/12 15:41*	*05/24/12 20:18*	*10*
Tetrachloro-m-xylene	*0*	*D*	*36 - 130*	*05/18/12 15:41*	*05/24/12 20:18*	*10*

Method: 8081A_8082 - Organochlorine Pesticides & PCBs (GC) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene, Technical	**610**	**H**	48	4.8	ug/L		05/28/12 15:21	05/31/12 20:44	10
Toxaphene, TAUC, Parlar 11-69	**720**	**H**	48	4.8	ug/L		05/28/12 15:21	05/31/12 20:44	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*0*	*D*	*40 - 130*	*05/28/12 15:21*	*05/31/12 20:44*	*10*
DCB Decachlorobiphenyl	*0*	*D*	*40 - 130*	*05/28/12 15:21*	*05/31/12 20:44*	*10*
Tetrachloro-m-xylene	*0*	*D*	*36 - 130*	*05/28/12 15:21*	*05/31/12 20:44*	*10*
Tetrachloro-m-xylene	*0*	*D*	*36 - 130*	*05/28/12 15:21*	*05/31/12 20:44*	*10*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.020	U	0.020	0.0052	mg/L		05/21/12 17:58	05/23/12 02:11	1
Arsenic	0.020	U	0.020	0.010	mg/L		05/21/12 17:58	05/23/12 02:11	1
Barium	**1.1**		0.010	0.0020	mg/L		05/21/12 17:58	05/23/12 02:11	1
Beryllium	0.0040	U	0.0040	0.00010	mg/L		05/21/12 17:58	05/23/12 02:11	1
Cadmium	0.0050	U	0.0050	0.0020	mg/L		05/21/12 17:58	05/23/12 02:11	1
Chromium	0.010	U	0.010	0.0020	mg/L		05/21/12 17:58	05/23/12 02:11	1
Cobalt	0.010	U	0.010	0.0010	mg/L		05/21/12 17:58	05/23/12 02:11	1
Copper	0.020	U	0.020	0.0050	mg/L		05/21/12 17:58	05/23/12 02:11	1
Lead	0.010	U	0.010	0.0034	mg/L		05/21/12 17:58	05/23/12 02:11	1
Nickel	0.040	U	0.040	0.0040	mg/L		05/21/12 17:58	05/23/12 02:11	1
Selenium	0.020	U	0.020	0.0064	mg/L		05/21/12 17:58	05/23/12 02:11	1
Silver	0.010	U	0.010	0.00097	mg/L		05/21/12 17:58	05/23/12 02:11	1
Thallium	0.025	U	0.025	0.0087	mg/L		05/21/12 17:58	05/23/12 02:11	1
Tin	0.050	U	0.050	0.0054	mg/L		05/21/12 17:58	05/23/12 02:11	1
Vanadium	**0.0044**	**J**	0.010	0.0030	mg/L		05/21/12 17:58	05/23/12 02:11	1
Zinc	0.020	U	0.020	0.0063	mg/L		05/21/12 17:58	05/23/12 02:11	1

Client: Ashland Inc.
Project/Site: HERC Brunswick Ph 3 RFI - GW MAY 2012

TestAmerica Job ID: 680-79571-1

Client Sample ID: MW-42D
Date Collected: 05/16/12 15:30
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79571-2
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020	0.000091	mg/L		05/18/12 12:35	05/22/12 10:37	1

Client: Ashland Inc.
Project/Site: HERC Brunswick Ph 3 RFI - GW MAY 2012

TestAmerica Job ID: 680-79571-1

Client Sample ID: MW-43S
Date Collected: 05/16/12 13:30
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79571-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/20/12 19:34	1
Acetonitrile	40	U	40	10	ug/L			05/20/12 19:34	1
Acrolein	20	U	20	7.4	ug/L			05/20/12 19:34	1
Acrylonitrile	20	U	20	7.2	ug/L			05/20/12 19:34	1
Benzene	1.0	U	1.0	0.25	ug/L			05/20/12 19:34	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/20/12 19:34	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/20/12 19:34	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/20/12 19:34	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/20/12 19:34	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/20/12 19:34	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			05/20/12 19:34	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			05/20/12 19:34	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/20/12 19:34	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/20/12 19:34	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/20/12 19:34	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			05/20/12 19:34	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/20/12 19:34	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/20/12 19:34	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/20/12 19:34	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/20/12 19:34	1
Dichlorobromomethane	1.0	U	1.0	0.25	ug/L			05/20/12 19:34	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/20/12 19:34	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/20/12 19:34	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/20/12 19:34	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/20/12 19:34	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/20/12 19:34	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/20/12 19:34	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			05/20/12 19:34	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/20/12 19:34	1
2-Hexanone	10	U	10	1.0	ug/L			05/20/12 19:34	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/20/12 19:34	1
Isobutyl alcohol	40	U	40	11	ug/L			05/20/12 19:34	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/20/12 19:34	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/20/12 19:34	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			05/20/12 19:34	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/20/12 19:34	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/20/12 19:34	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/20/12 19:34	1
Propionitrile	20	U	20	4.6	ug/L			05/20/12 19:34	1
Styrene	1.0	U	1.0	0.11	ug/L			05/20/12 19:34	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/20/12 19:34	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/20/12 19:34	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/20/12 19:34	1
Toluene	1.0	U	1.0	0.33	ug/L			05/20/12 19:34	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/20/12 19:34	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/20/12 19:34	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/20/12 19:34	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/20/12 19:34	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/20/12 19:34	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			05/20/12 19:34	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/20/12 19:34	1

Client Sample ID: MW-43S
Date Collected: 05/16/12 13:30
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79571-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/20/12 19:34	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/20/12 19:34	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/20/12 19:34	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/20/12 19:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*70 - 130*		*05/20/12 19:34*	*1*
Dibromofluoromethane	*105*		*70 - 130*		*05/20/12 19:34*	*1*
Toluene-d8 (Surr)	*106*		*70 - 130*		*05/20/12 19:34*	*1*

Method: 8081A_8082 - Organochlorine Pesticides & PCBs (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene, Technical	4.7	U	4.7	0.47	ug/L		05/18/12 15:41	05/24/12 21:36	1
Toxaphene, TAUC, Parlar 11-69	4.7	U	4.7	0.47	ug/L		05/18/12 15:41	05/24/12 21:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*21*	*X*	*40 - 130*	*05/18/12 15:41*	*05/24/12 21:36*	*1*
DCB Decachlorobiphenyl	*17*	*X*	*40 - 130*	*05/18/12 15:41*	*05/24/12 21:36*	*1*
Tetrachloro-m-xylene	*52*		*36 - 130*	*05/18/12 15:41*	*05/24/12 21:36*	*1*
Tetrachloro-m-xylene	*61*		*36 - 130*	*05/18/12 15:41*	*05/24/12 21:36*	*1*

Method: 8081A_8082 - Organochlorine Pesticides & PCBs (GC) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene, Technical	4.8	U H	4.8	0.48	ug/L		05/28/12 15:21	05/31/12 21:03	1
Toxaphene, TAUC, Parlar 11-69	4.8	U H	4.8	0.48	ug/L		05/28/12 15:21	05/31/12 21:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*16*	*X*	*40 - 130*	*05/28/12 15:21*	*05/31/12 21:03*	*1*
DCB Decachlorobiphenyl	*17*	*X*	*40 - 130*	*05/28/12 15:21*	*05/31/12 21:03*	*1*
Tetrachloro-m-xylene	*63*		*36 - 130*	*05/28/12 15:21*	*05/31/12 21:03*	*1*
Tetrachloro-m-xylene	*69*		*36 - 130*	*05/28/12 15:21*	*05/31/12 21:03*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.020	U	0.020	0.0052	mg/L		05/21/12 17:58	05/23/12 02:15	1
Arsenic	0.020	U	0.020	0.010	mg/L		05/21/12 17:58	05/23/12 02:15	1
Barium	**0.083**		0.010	0.0020	mg/L		05/21/12 17:58	05/23/12 02:15	1
Beryllium	0.0040	U	0.0040	0.00010	mg/L		05/21/12 17:58	05/23/12 02:15	1
Cadmium	0.0050	U	0.0050	0.0020	mg/L		05/21/12 17:58	05/23/12 02:15	1
Chromium	0.010	U	0.010	0.0020	mg/L		05/21/12 17:58	05/23/12 02:15	1
Cobalt	0.010	U	0.010	0.0010	mg/L		05/21/12 17:58	05/23/12 02:15	1
Copper	0.020	U	0.020	0.0050	mg/L		05/21/12 17:58	05/23/12 02:15	1
Lead	0.010	U	0.010	0.0034	mg/L		05/21/12 17:58	05/23/12 02:15	1
Nickel	0.040	U	0.040	0.0040	mg/L		05/21/12 17:58	05/23/12 02:15	1
Selenium	0.020	U	0.020	0.0064	mg/L		05/21/12 17:58	05/23/12 02:15	1
Silver	0.010	U	0.010	0.00097	mg/L		05/21/12 17:58	05/23/12 02:15	1
Thallium	0.025	U	0.025	0.0087	mg/L		05/21/12 17:58	05/23/12 02:15	1
Tin	0.050	U	0.050	0.0054	mg/L		05/21/12 17:58	05/23/12 02:15	1
Vanadium	**0.0031**	**J**	0.010	0.0030	mg/L		05/21/12 17:58	05/23/12 02:15	1
Zinc	0.020	U	0.020	0.0063	mg/L		05/21/12 17:58	05/23/12 02:15	1

Client: Ashland Inc.
Project/Site: HERC Brunswick Ph 3 RFI - GW MAY 2012

TestAmerica Job ID: 680-79571-1

Client Sample ID: MW-43S
Date Collected: 05/16/12 13:30
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79571-3
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020	0.000091	mg/L		05/18/12 12:35	05/22/12 10:40	1

Client: Ashland Inc.
Project/Site: HERC Brunswick Ph 3 RFI - GW MAY 2012

TestAmerica Job ID: 680-79571-1

Client Sample ID: MW-43I
Date Collected: 05/16/12 13:20
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79571-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/20/12 20:03	1
Acetonitrile	40	U	40	10	ug/L			05/20/12 20:03	1
Acrolein	20	U	20	7.4	ug/L			05/20/12 20:03	1
Acrylonitrile	20	U	20	7.2	ug/L			05/20/12 20:03	1
Benzene	1.0	U	1.0	0.25	ug/L			05/20/12 20:03	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/20/12 20:03	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/20/12 20:03	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/20/12 20:03	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/20/12 20:03	1
Chlorobenzene	**0.27**	**J**	1.0	0.25	ug/L			05/20/12 20:03	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			05/20/12 20:03	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			05/20/12 20:03	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/20/12 20:03	1
Chloroform	**0.35**	**J**	1.0	0.14	ug/L			05/20/12 20:03	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/20/12 20:03	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			05/20/12 20:03	1
cis-1,2-Dichloroethene	**0.18**	**J**	1.0	0.15	ug/L			05/20/12 20:03	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/20/12 20:03	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/20/12 20:03	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/20/12 20:03	1
Dichlorobromomethane	1.0	U	1.0	0.25	ug/L			05/20/12 20:03	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/20/12 20:03	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/20/12 20:03	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/20/12 20:03	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/20/12 20:03	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/20/12 20:03	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/20/12 20:03	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			05/20/12 20:03	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/20/12 20:03	1
2-Hexanone	10	U	10	1.0	ug/L			05/20/12 20:03	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/20/12 20:03	1
Isobutyl alcohol	40	U	40	11	ug/L			05/20/12 20:03	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/20/12 20:03	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/20/12 20:03	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			05/20/12 20:03	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/20/12 20:03	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/20/12 20:03	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/20/12 20:03	1
Propionitrile	20	U	20	4.6	ug/L			05/20/12 20:03	1
Styrene	1.0	U	1.0	0.11	ug/L			05/20/12 20:03	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/20/12 20:03	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/20/12 20:03	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/20/12 20:03	1
Toluene	1.0	U	1.0	0.33	ug/L			05/20/12 20:03	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/20/12 20:03	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/20/12 20:03	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/20/12 20:03	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/20/12 20:03	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/20/12 20:03	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			05/20/12 20:03	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/20/12 20:03	1

Client Sample ID: MW-43I
Date Collected: 05/16/12 13:20
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79571-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/20/12 20:03	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/20/12 20:03	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/20/12 20:03	1
Xylenes, Total	**1.0**	**J**	2.0	0.20	ug/L			05/20/12 20:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*70 - 130*		*05/20/12 20:03*	*1*
Dibromofluoromethane	*106*		*70 - 130*		*05/20/12 20:03*	*1*
Toluene-d8 (Surr)	*107*		*70 - 130*		*05/20/12 20:03*	*1*

Method: 8081A_8082 - Organochlorine Pesticides & PCBs (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene, Technical	4.9	U	4.9	0.49	ug/L		05/18/12 15:41	05/24/12 21:55	1
Toxaphene, TAUC, Parlar 11-69	**2.4**	**J**	4.9	0.49	ug/L		05/18/12 15:41	05/24/12 21:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*24*	*X*	*40 - 130*	*05/18/12 15:41*	*05/24/12 21:55*	*1*
DCB Decachlorobiphenyl	*12*	*p X*	*40 - 130*	*05/18/12 15:41*	*05/24/12 21:55*	*1*
Tetrachloro-m-xylene	*42*		*36 - 130*	*05/18/12 15:41*	*05/24/12 21:55*	*1*
Tetrachloro-m-xylene	*54*		*36 - 130*	*05/18/12 15:41*	*05/24/12 21:55*	*1*

Method: 8081A_8082 - Organochlorine Pesticides & PCBs (GC) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene, Technical	4.8	U H	4.8	0.48	ug/L		05/28/12 15:21	05/31/12 21:23	1
Toxaphene, TAUC, Parlar 11-69	**2.9**	**J H**	4.8	0.48	ug/L		05/28/12 15:21	05/31/12 21:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*46*		*40 - 130*	*05/28/12 15:21*	*05/31/12 21:23*	*1*
DCB Decachlorobiphenyl	*26*	*X*	*40 - 130*	*05/28/12 15:21*	*05/31/12 21:23*	*1*
Tetrachloro-m-xylene	*60*		*36 - 130*	*05/28/12 15:21*	*05/31/12 21:23*	*1*
Tetrachloro-m-xylene	*73*		*36 - 130*	*05/28/12 15:21*	*05/31/12 21:23*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.020	U	0.020	0.0052	mg/L		05/21/12 17:58	05/23/12 02:20	1
Arsenic	0.020	U	0.020	0.010	mg/L		05/21/12 17:58	05/23/12 02:20	1
Barium	**0.17**		0.010	0.0020	mg/L		05/21/12 17:58	05/23/12 02:20	1
Beryllium	0.0040	U	0.0040	0.00010	mg/L		05/21/12 17:58	05/23/12 02:20	1
Cadmium	0.0050	U	0.0050	0.0020	mg/L		05/21/12 17:58	05/23/12 02:20	1
Chromium	**0.0054**	**J**	0.010	0.0020	mg/L		05/21/12 17:58	05/23/12 02:20	1
Cobalt	0.010	U	0.010	0.0010	mg/L		05/21/12 17:58	05/23/12 02:20	1
Copper	0.020	U	0.020	0.0050	mg/L		05/21/12 17:58	05/23/12 02:20	1
Lead	0.010	U	0.010	0.0034	mg/L		05/21/12 17:58	05/23/12 02:20	1
Nickel	0.040	U	0.040	0.0040	mg/L		05/21/12 17:58	05/23/12 02:20	1
Selenium	0.020	U	0.020	0.0064	mg/L		05/21/12 17:58	05/23/12 02:20	1
Silver	0.010	U	0.010	0.00097	mg/L		05/21/12 17:58	05/23/12 02:20	1
Thallium	0.025	U	0.025	0.0087	mg/L		05/21/12 17:58	05/23/12 02:20	1
Tin	0.050	U	0.050	0.0054	mg/L		05/21/12 17:58	05/23/12 02:20	1
Vanadium	**0.0059**	**J**	0.010	0.0030	mg/L		05/21/12 17:58	05/23/12 02:20	1
Zinc	0.020	U	0.020	0.0063	mg/L		05/21/12 17:58	05/23/12 02:20	1

Client: Ashland Inc.
Project/Site: HERC Brunswick Ph 3 RFI - GW MAY 2012

TestAmerica Job ID: 680-79571-1

Client Sample ID: MW-43I
Date Collected: 05/16/12 13:20
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79571-4
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020	0.000091	mg/L		05/18/12 12:35	05/22/12 10:44	1

Client: Ashland Inc.
Project/Site: HERC Brunswick Ph 3 RFI - GW MAY 2012

TestAmerica Job ID: 680-79571-1

Client Sample ID: MW-43D
Date Collected: 05/16/12 13:00
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79571-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1300	U	1300	250	ug/L			05/19/12 16:38	50
Acetonitrile	2000	U	2000	500	ug/L			05/19/12 16:38	50
Acrolein	1000	U	1000	370	ug/L			05/19/12 16:38	50
Acrylonitrile	1000	U	1000	360	ug/L			05/19/12 16:38	50
Benzene	**270**		50	13	ug/L			05/19/12 16:38	50
Bromoform	50	U	50	25	ug/L			05/19/12 16:38	50
Bromomethane	50	U	50	40	ug/L			05/19/12 16:38	50
Carbon disulfide	100	U	100	30	ug/L			05/19/12 16:38	50
Carbon tetrachloride	50	U	50	25	ug/L			05/19/12 16:38	50
Chlorobenzene	**410**		50	13	ug/L			05/19/12 16:38	50
2-Chloro-1,3-butadiene	50	U	50	15	ug/L			05/19/12 16:38	50
Chlorodibromomethane	50	U	50	5.0	ug/L			05/19/12 16:38	50
Chloroethane	50	U	50	50	ug/L			05/19/12 16:38	50
Chloroform	**8000**		50	7.0	ug/L			05/19/12 16:38	50
Chloromethane	50	U	50	17	ug/L			05/19/12 16:38	50
3-Chloro-1-propene	50	U	50	10	ug/L			05/19/12 16:38	50
cis-1,2-Dichloroethene	50	U	50	7.5	ug/L			05/19/12 16:38	50
cis-1,3-Dichloropropene	50	U	50	5.5	ug/L			05/19/12 16:38	50
1,2-Dibromo-3-Chloropropane	50	U	50	22	ug/L			05/19/12 16:38	50
Dibromomethane	50	U	50	10	ug/L			05/19/12 16:38	50
Dichlorobromomethane	50	U	50	13	ug/L			05/19/12 16:38	50
Dichlorodifluoromethane	50	U	50	13	ug/L			05/19/12 16:38	50
1,1-Dichloroethane	50	U	50	13	ug/L			05/19/12 16:38	50
1,2-Dichloroethane	50	U	50	5.0	ug/L			05/19/12 16:38	50
1,1-Dichloroethene	50	U	50	5.5	ug/L			05/19/12 16:38	50
1,2-Dichloropropane	50	U	50	6.5	ug/L			05/19/12 16:38	50
Ethylbenzene	**8.3**	**J**	50	5.5	ug/L			05/19/12 16:38	50
Ethylene Dibromide	50	U	50	13	ug/L			05/19/12 16:38	50
Ethyl methacrylate	50	U	50	13	ug/L			05/19/12 16:38	50
2-Hexanone	500	U	500	50	ug/L			05/19/12 16:38	50
Iodomethane	250	U	250	50	ug/L			05/19/12 16:38	50
Isobutyl alcohol	2000	U	2000	550	ug/L			05/19/12 16:38	50
Methacrylonitrile	1000	U	1000	170	ug/L			05/19/12 16:38	50
Methylene Chloride	**2100**		250	50	ug/L			05/19/12 16:38	50
2-Butanone (MEK)	500	U	500	50	ug/L			05/19/12 16:38	50
4-Methyl-2-pentanone (MIBK)	500	U	500	50	ug/L			05/19/12 16:38	50
Methyl methacrylate	50	U	50	24	ug/L			05/19/12 16:38	50
Pentachloroethane	250	U	250	60	ug/L			05/19/12 16:38	50
Propionitrile	1000	U	1000	230	ug/L			05/19/12 16:38	50
Styrene	50	U	50	5.5	ug/L			05/19/12 16:38	50
1,1,1,2-Tetrachloroethane	50	U	50	17	ug/L			05/19/12 16:38	50
1,1,2,2-Tetrachloroethane	50	U	50	9.0	ug/L			05/19/12 16:38	50
Tetrachloroethene	**13**	**J**	50	7.5	ug/L			05/19/12 16:38	50
Toluene	**44**	**J**	50	17	ug/L			05/19/12 16:38	50
trans-1,4-Dichloro-2-butene	100	U	100	25	ug/L			05/19/12 16:38	50
trans-1,2-Dichloroethene	50	U	50	10	ug/L			05/19/12 16:38	50
trans-1,3-Dichloropropene	50	U	50	11	ug/L			05/19/12 16:38	50
1,1,1-Trichloroethane	50	U	50	25	ug/L			05/19/12 16:38	50
1,1,2-Trichloroethane	50	U	50	6.5	ug/L			05/19/12 16:38	50
Trichloroethene	50	U	50	6.5	ug/L			05/19/12 16:38	50
Trichlorofluoromethane	50	U	50	13	ug/L			05/19/12 16:38	50

Client Sample ID: MW-43D
Date Collected: 05/16/12 13:00
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79571-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	50	U	50	21	ug/L			05/19/12 16:38	50
Vinyl acetate	100	U	100	14	ug/L			05/19/12 16:38	50
Vinyl chloride	50	U	50	9.0	ug/L			05/19/12 16:38	50
Xylenes, Total	**18**	**J**	100	10	ug/L			05/19/12 16:38	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*70 - 130*		*05/19/12 16:38*	*50*
Dibromofluoromethane	*102*		*70 - 130*		*05/19/12 16:38*	*50*
Toluene-d8 (Surr)	*108*		*70 - 130*		*05/19/12 16:38*	*50*

Method: 8081A_8082 - Organochlorine Pesticides & PCBs (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene, Technical	48	U	48	4.8	ug/L		05/18/12 15:41	05/24/12 20:38	10
Toxaphene, TAUC, Parlar 11-69	**24**	**J p**	48	4.8	ug/L		05/18/12 15:41	05/24/12 20:38	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*0*	*D*	*40 - 130*	*05/18/12 15:41*	*05/24/12 20:38*	*10*
DCB Decachlorobiphenyl	*0*	*D*	*40 - 130*	*05/18/12 15:41*	*05/24/12 20:38*	*10*
Tetrachloro-m-xylene	*0*	*D*	*36 - 130*	*05/18/12 15:41*	*05/24/12 20:38*	*10*
Tetrachloro-m-xylene	*0*	*D*	*36 - 130*	*05/18/12 15:41*	*05/24/12 20:38*	*10*

Method: 8081A_8082 - Organochlorine Pesticides & PCBs (GC) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene, Technical	48	U H	48	4.8	ug/L		05/28/12 15:21	05/31/12 21:42	10
Toxaphene, TAUC, Parlar 11-69	**98**	**H**	48	4.8	ug/L		05/28/12 15:21	05/31/12 21:42	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*0*	*D*	*40 - 130*	*05/28/12 15:21*	*05/31/12 21:42*	*10*
DCB Decachlorobiphenyl	*0*	*D*	*40 - 130*	*05/28/12 15:21*	*05/31/12 21:42*	*10*
Tetrachloro-m-xylene	*0*	*D*	*36 - 130*	*05/28/12 15:21*	*05/31/12 21:42*	*10*
Tetrachloro-m-xylene	*0*	*D*	*36 - 130*	*05/28/12 15:21*	*05/31/12 21:42*	*10*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.020	U	0.020	0.0052	mg/L		05/21/12 17:58	05/23/12 02:24	1
Arsenic	0.020	U	0.020	0.010	mg/L		05/21/12 17:58	05/23/12 02:24	1
Barium	**0.44**		0.010	0.0020	mg/L		05/21/12 17:58	05/23/12 02:24	1
Beryllium	0.0040	U	0.0040	0.00010	mg/L		05/21/12 17:58	05/23/12 02:24	1
Cadmium	0.0050	U	0.0050	0.0020	mg/L		05/21/12 17:58	05/23/12 02:24	1
Chromium	0.010	U	0.010	0.0020	mg/L		05/21/12 17:58	05/23/12 02:24	1
Cobalt	0.010	U	0.010	0.0010	mg/L		05/21/12 17:58	05/23/12 02:24	1
Copper	0.020	U	0.020	0.0050	mg/L		05/21/12 17:58	05/23/12 02:24	1
Lead	0.010	U	0.010	0.0034	mg/L		05/21/12 17:58	05/23/12 02:24	1
Nickel	0.040	U	0.040	0.0040	mg/L		05/21/12 17:58	05/23/12 02:24	1
Selenium	0.020	U	0.020	0.0064	mg/L		05/21/12 17:58	05/23/12 02:24	1
Silver	0.010	U	0.010	0.00097	mg/L		05/21/12 17:58	05/23/12 02:24	1
Thallium	0.025	U	0.025	0.0087	mg/L		05/21/12 17:58	05/23/12 02:24	1
Tin	0.050	U	0.050	0.0054	mg/L		05/21/12 17:58	05/23/12 02:24	1
Vanadium	**0.0035**	**J**	0.010	0.0030	mg/L		05/21/12 17:58	05/23/12 02:24	1
Zinc	0.020	U	0.020	0.0063	mg/L		05/21/12 17:58	05/23/12 02:24	1

Client: Ashland Inc.
Project/Site: HERC Brunswick Ph 3 RFI - GW MAY 2012

TestAmerica Job ID: 680-79571-1

Client Sample ID: MW-43D
Date Collected: 05/16/12 13:00
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79571-5
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020	0.000091	mg/L		05/18/12 12:35	05/22/12 10:47	1

Client: Ashland Inc.
Project/Site: HERC Brunswick Ph 3 RFI - GW MAY 2012

TestAmerica Job ID: 680-79571-1

Client Sample ID: MW-49S
Date Collected: 05/16/12 14:50
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79571-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/19/12 13:03	1
Acetonitrile	40	U	40	10	ug/L			05/19/12 13:03	1
Acrolein	20	U	20	7.4	ug/L			05/19/12 13:03	1
Acrylonitrile	20	U	20	7.2	ug/L			05/19/12 13:03	1
Benzene	1.0	U	1.0	0.25	ug/L			05/19/12 13:03	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/19/12 13:03	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/19/12 13:03	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/19/12 13:03	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/19/12 13:03	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/19/12 13:03	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			05/19/12 13:03	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			05/19/12 13:03	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/19/12 13:03	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/19/12 13:03	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/19/12 13:03	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			05/19/12 13:03	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/19/12 13:03	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/19/12 13:03	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/19/12 13:03	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/19/12 13:03	1
Dichlorobromomethane	1.0	U	1.0	0.25	ug/L			05/19/12 13:03	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/19/12 13:03	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/19/12 13:03	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/19/12 13:03	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/19/12 13:03	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/19/12 13:03	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/19/12 13:03	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			05/19/12 13:03	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/19/12 13:03	1
2-Hexanone	10	U	10	1.0	ug/L			05/19/12 13:03	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/19/12 13:03	1
Isobutyl alcohol	40	U	40	11	ug/L			05/19/12 13:03	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/19/12 13:03	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/19/12 13:03	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			05/19/12 13:03	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/19/12 13:03	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/19/12 13:03	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/19/12 13:03	1
Propionitrile	20	U	20	4.6	ug/L			05/19/12 13:03	1
Styrene	1.0	U	1.0	0.11	ug/L			05/19/12 13:03	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/19/12 13:03	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/19/12 13:03	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/19/12 13:03	1
Toluene	**1.9**		1.0	0.33	ug/L			05/19/12 13:03	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/19/12 13:03	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/19/12 13:03	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/19/12 13:03	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/19/12 13:03	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/19/12 13:03	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			05/19/12 13:03	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/19/12 13:03	1

Client: Ashland Inc.
Project/Site: HERC Brunswick Ph 3 RFI - GW MAY 2012

TestAmerica Job ID: 680-79571-1

Client Sample ID: MW-49S
Date Collected: 05/16/12 14:50
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79571-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/19/12 13:03	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/19/12 13:03	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/19/12 13:03	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/19/12 13:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*70 - 130*		*05/19/12 13:03*	*1*
Dibromofluoromethane	*97*		*70 - 130*		*05/19/12 13:03*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*		*05/19/12 13:03*	*1*

Client: Ashland Inc.
Project/Site: HERC Brunswick Ph 3 RFI - GW MAY 2012

TestAmerica Job ID: 680-79571-1

Client Sample ID: MW-49I
Date Collected: 05/16/12 14:40
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79571-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/19/12 13:31	1
Acetonitrile	40	U	40	10	ug/L			05/19/12 13:31	1
Acrolein	20	U	20	7.4	ug/L			05/19/12 13:31	1
Acrylonitrile	20	U	20	7.2	ug/L			05/19/12 13:31	1
Benzene	**15**		1.0	0.25	ug/L			05/19/12 13:31	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/19/12 13:31	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/19/12 13:31	1
Carbon disulfide	**1.9**	**J**	2.0	0.60	ug/L			05/19/12 13:31	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/19/12 13:31	1
Chlorobenzene	**1.7**		1.0	0.25	ug/L			05/19/12 13:31	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			05/19/12 13:31	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			05/19/12 13:31	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/19/12 13:31	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/19/12 13:31	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/19/12 13:31	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			05/19/12 13:31	1
cis-1,2-Dichloroethene	**0.18**	**J**	1.0	0.15	ug/L			05/19/12 13:31	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/19/12 13:31	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/19/12 13:31	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/19/12 13:31	1
Dichlorobromomethane	1.0	U	1.0	0.25	ug/L			05/19/12 13:31	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/19/12 13:31	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/19/12 13:31	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/19/12 13:31	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/19/12 13:31	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/19/12 13:31	1
Ethylbenzene	**0.43**	**J**	1.0	0.11	ug/L			05/19/12 13:31	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			05/19/12 13:31	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/19/12 13:31	1
2-Hexanone	10	U	10	1.0	ug/L			05/19/12 13:31	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/19/12 13:31	1
Isobutyl alcohol	40	U	40	11	ug/L			05/19/12 13:31	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/19/12 13:31	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/19/12 13:31	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			05/19/12 13:31	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/19/12 13:31	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/19/12 13:31	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/19/12 13:31	1
Propionitrile	20	U	20	4.6	ug/L			05/19/12 13:31	1
Styrene	1.0	U	1.0	0.11	ug/L			05/19/12 13:31	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/19/12 13:31	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/19/12 13:31	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/19/12 13:31	1
Toluene	1.0	U	1.0	0.33	ug/L			05/19/12 13:31	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/19/12 13:31	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/19/12 13:31	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/19/12 13:31	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/19/12 13:31	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/19/12 13:31	1
Trichloroethene	**0.17**	**J**	1.0	0.13	ug/L			05/19/12 13:31	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/19/12 13:31	1

Client: Ashland Inc.
Project/Site: HERC Brunswick Ph 3 RFI - GW MAY 2012

TestAmerica Job ID: 680-79571-1

Client Sample ID: MW-49I
Date Collected: 05/16/12 14:40
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79571-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/19/12 13:31	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/19/12 13:31	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/19/12 13:31	1
Xylenes, Total	**0.91**	**J**	2.0	0.20	ug/L			05/19/12 13:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*70 - 130*		*05/19/12 13:31*	*1*
Dibromofluoromethane	*97*		*70 - 130*		*05/19/12 13:31*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*		*05/19/12 13:31*	*1*

Client: Ashland Inc.
Project/Site: HERC Brunswick Ph 3 RFI - GW MAY 2012

TestAmerica Job ID: 680-79571-1

Client Sample ID: MW-49D
Date Collected: 05/16/12 14:20
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79571-8
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/19/12 14:00	1
Acetonitrile	40	U	40	10	ug/L			05/19/12 14:00	1
Acrolein	20	U	20	7.4	ug/L			05/19/12 14:00	1
Acrylonitrile	20	U	20	7.2	ug/L			05/19/12 14:00	1
Benzene	**0.77**	**J**	1.0	0.25	ug/L			05/19/12 14:00	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/19/12 14:00	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/19/12 14:00	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/19/12 14:00	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/19/12 14:00	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/19/12 14:00	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			05/19/12 14:00	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			05/19/12 14:00	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/19/12 14:00	1
Chloroform	**0.23**	**J**	1.0	0.14	ug/L			05/19/12 14:00	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/19/12 14:00	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			05/19/12 14:00	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/19/12 14:00	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/19/12 14:00	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/19/12 14:00	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/19/12 14:00	1
Dichlorobromomethane	1.0	U	1.0	0.25	ug/L			05/19/12 14:00	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/19/12 14:00	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/19/12 14:00	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/19/12 14:00	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/19/12 14:00	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/19/12 14:00	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/19/12 14:00	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			05/19/12 14:00	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/19/12 14:00	1
2-Hexanone	10	U	10	1.0	ug/L			05/19/12 14:00	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/19/12 14:00	1
Isobutyl alcohol	40	U	40	11	ug/L			05/19/12 14:00	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/19/12 14:00	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/19/12 14:00	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			05/19/12 14:00	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/19/12 14:00	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/19/12 14:00	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/19/12 14:00	1
Propionitrile	20	U	20	4.6	ug/L			05/19/12 14:00	1
Styrene	1.0	U	1.0	0.11	ug/L			05/19/12 14:00	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/19/12 14:00	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/19/12 14:00	1
Tetrachloroethene	**0.17**	**J**	1.0	0.15	ug/L			05/19/12 14:00	1
Toluene	1.0	U	1.0	0.33	ug/L			05/19/12 14:00	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/19/12 14:00	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/19/12 14:00	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/19/12 14:00	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/19/12 14:00	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/19/12 14:00	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			05/19/12 14:00	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/19/12 14:00	1

Client: Ashland Inc.
Project/Site: HERC Brunswick Ph 3 RFI - GW MAY 2012

TestAmerica Job ID: 680-79571-1

Client Sample ID: MW-49D
Date Collected: 05/16/12 14:20
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79571-8
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/19/12 14:00	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/19/12 14:00	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/19/12 14:00	1
Xylenes, Total	**0.21**	**J**	2.0	0.20	ug/L			05/19/12 14:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*70 - 130*		*05/19/12 14:00*	*1*
Dibromofluoromethane	*96*		*70 - 130*		*05/19/12 14:00*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*		*05/19/12 14:00*	*1*

Client: Ashland Inc.
Project/Site: HERC Brunswick Ph 3 RFI - GW MAY 2012

TestAmerica Job ID: 680-79571-1

Client Sample ID: Dup-1
Date Collected: 05/16/12 00:00
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79571-9
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/19/12 14:29	1
Acetonitrile	40	U	40	10	ug/L			05/19/12 14:29	1
Acrolein	20	U	20	7.4	ug/L			05/19/12 14:29	1
Acrylonitrile	20	U	20	7.2	ug/L			05/19/12 14:29	1
Benzene	**4.4**		1.0	0.25	ug/L			05/19/12 14:29	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/19/12 14:29	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/19/12 14:29	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/19/12 14:29	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/19/12 14:29	1
Chlorobenzene	**0.45**	**J**	1.0	0.25	ug/L			05/19/12 14:29	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			05/19/12 14:29	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			05/19/12 14:29	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/19/12 14:29	1
Chloroform	**0.30**	**J**	1.0	0.14	ug/L			05/19/12 14:29	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/19/12 14:29	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			05/19/12 14:29	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/19/12 14:29	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/19/12 14:29	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/19/12 14:29	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/19/12 14:29	1
Dichlorobromomethane	1.0	U	1.0	0.25	ug/L			05/19/12 14:29	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/19/12 14:29	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/19/12 14:29	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/19/12 14:29	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/19/12 14:29	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/19/12 14:29	1
Ethylbenzene	**0.12**	**J**	1.0	0.11	ug/L			05/19/12 14:29	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			05/19/12 14:29	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/19/12 14:29	1
2-Hexanone	10	U	10	1.0	ug/L			05/19/12 14:29	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/19/12 14:29	1
Isobutyl alcohol	40	U	40	11	ug/L			05/19/12 14:29	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/19/12 14:29	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/19/12 14:29	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			05/19/12 14:29	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/19/12 14:29	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/19/12 14:29	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/19/12 14:29	1
Propionitrile	20	U	20	4.6	ug/L			05/19/12 14:29	1
Styrene	1.0	U	1.0	0.11	ug/L			05/19/12 14:29	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/19/12 14:29	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/19/12 14:29	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/19/12 14:29	1
Toluene	1.0	U	1.0	0.33	ug/L			05/19/12 14:29	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/19/12 14:29	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/19/12 14:29	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/19/12 14:29	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/19/12 14:29	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/19/12 14:29	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			05/19/12 14:29	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/19/12 14:29	1

Client Sample ID: Dup-1
Date Collected: 05/16/12 00:00
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79571-9
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/19/12 14:29	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/19/12 14:29	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/19/12 14:29	1
Xylenes, Total	**1.4**	**J**	2.0	0.20	ug/L			05/19/12 14:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*70 - 130*		*05/19/12 14:29*	*1*
Dibromofluoromethane	*97*		*70 - 130*		*05/19/12 14:29*	*1*
Toluene-d8 (Surr)	*106*		*70 - 130*		*05/19/12 14:29*	*1*

Method: 8081A_8082 - Organochlorine Pesticides & PCBs (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene, Technical	5.0	U	5.0	0.50	ug/L		05/18/12 15:41	05/25/12 00:11	1
Toxaphene, TAUC, Parlar 11-69	**4.2**	**J**	5.0	0.50	ug/L		05/18/12 15:41	05/25/12 00:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*51*		*40 - 130*	*05/18/12 15:41*	*05/25/12 00:11*	*1*
DCB Decachlorobiphenyl	*25*	*p X*	*40 - 130*	*05/18/12 15:41*	*05/25/12 00:11*	*1*
Tetrachloro-m-xylene	*70*		*36 - 130*	*05/18/12 15:41*	*05/25/12 00:11*	*1*
Tetrachloro-m-xylene	*69*		*36 - 130*	*05/18/12 15:41*	*05/25/12 00:11*	*1*

Method: 8081A_8082 - Organochlorine Pesticides & PCBs (GC) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene, Technical	4.9	U H	4.9	0.49	ug/L		05/28/12 15:21	05/31/12 22:01	1
Toxaphene, TAUC, Parlar 11-69	**3.6**	**J H**	4.9	0.49	ug/L		05/28/12 15:21	05/31/12 22:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*49*		*40 - 130*	*05/28/12 15:21*	*05/31/12 22:01*	*1*
DCB Decachlorobiphenyl	*28*	*X*	*40 - 130*	*05/28/12 15:21*	*05/31/12 22:01*	*1*
Tetrachloro-m-xylene	*63*		*36 - 130*	*05/28/12 15:21*	*05/31/12 22:01*	*1*
Tetrachloro-m-xylene	*76*		*36 - 130*	*05/28/12 15:21*	*05/31/12 22:01*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.020	U	0.020	0.0052	mg/L		05/25/12 11:41	05/25/12 22:21	1
Arsenic	0.020	U	0.020	0.010	mg/L		05/25/12 11:41	05/25/12 22:21	1
Barium	**0.16**		0.010	0.0020	mg/L		05/25/12 11:41	05/25/12 22:21	1
Beryllium	0.0040	U	0.0040	0.00010	mg/L		05/25/12 11:41	05/25/12 22:21	1
Cadmium	0.0050	U	0.0050	0.0020	mg/L		05/25/12 11:41	05/25/12 22:21	1
Chromium	**0.0051**	**J**	0.010	0.0020	mg/L		05/25/12 11:41	05/25/12 22:21	1
Cobalt	0.010	U	0.010	0.0010	mg/L		05/25/12 11:41	05/25/12 22:21	1
Copper	0.020	U	0.020	0.0050	mg/L		05/25/12 11:41	05/25/12 22:21	1
Lead	0.010	U	0.010	0.0034	mg/L		05/25/12 11:41	05/25/12 22:21	1
Nickel	0.040	U	0.040	0.0040	mg/L		05/25/12 11:41	05/25/12 22:21	1
Selenium	**0.0064**	**J**	0.020	0.0064	mg/L		05/25/12 11:41	05/25/12 22:21	1
Silver	0.010	U	0.010	0.00097	mg/L		05/25/12 11:41	05/25/12 22:21	1
Thallium	0.025	U	0.025	0.0087	mg/L		05/25/12 11:41	05/25/12 22:21	1
Tin	0.050	U	0.050	0.0054	mg/L		05/25/12 11:41	05/25/12 22:21	1
Vanadium	**0.0056**	**J**	0.010	0.0030	mg/L		05/25/12 11:41	05/25/12 22:21	1
Zinc	0.020	U	0.020	0.0063	mg/L		05/25/12 11:41	05/25/12 22:21	1

Client: Ashland Inc.
Project/Site: HERC Brunswick Ph 3 RFI - GW MAY 2012

TestAmerica Job ID: 680-79571-1

Client Sample ID: Dup-1
Date Collected: 05/16/12 00:00
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79571-9
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020	0.000091	mg/L		05/18/12 12:35	05/22/12 10:51	1

Client: Ashland Inc.
Project/Site: HERC Brunswick Ph 3 RFI - GW MAY 2012

TestAmerica Job ID: 680-79571-1

Client Sample ID: Trip Blank 2
Date Collected: 05/16/12 00:00
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79571-10
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/18/12 15:29	1
Acetonitrile	40	U	40	10	ug/L			05/18/12 15:29	1
Acrolein	20	U	20	7.4	ug/L			05/18/12 15:29	1
Acrylonitrile	20	U	20	7.2	ug/L			05/18/12 15:29	1
Benzene	1.0	U	1.0	0.25	ug/L			05/18/12 15:29	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/18/12 15:29	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/18/12 15:29	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/18/12 15:29	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/18/12 15:29	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/18/12 15:29	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			05/18/12 15:29	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			05/18/12 15:29	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/18/12 15:29	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/18/12 15:29	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/18/12 15:29	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			05/18/12 15:29	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/18/12 15:29	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/18/12 15:29	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/18/12 15:29	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/18/12 15:29	1
Dichlorobromomethane	1.0	U	1.0	0.25	ug/L			05/18/12 15:29	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/18/12 15:29	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/18/12 15:29	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/18/12 15:29	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/18/12 15:29	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/18/12 15:29	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/18/12 15:29	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			05/18/12 15:29	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/18/12 15:29	1
2-Hexanone	10	U	10	1.0	ug/L			05/18/12 15:29	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/18/12 15:29	1
Isobutyl alcohol	40	U	40	11	ug/L			05/18/12 15:29	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/18/12 15:29	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/18/12 15:29	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			05/18/12 15:29	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/18/12 15:29	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/18/12 15:29	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/18/12 15:29	1
Propionitrile	20	U	20	4.6	ug/L			05/18/12 15:29	1
Styrene	1.0	U	1.0	0.11	ug/L			05/18/12 15:29	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/18/12 15:29	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/18/12 15:29	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/18/12 15:29	1
Toluene	1.0	U	1.0	0.33	ug/L			05/18/12 15:29	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/18/12 15:29	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/18/12 15:29	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/18/12 15:29	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/18/12 15:29	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/18/12 15:29	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			05/18/12 15:29	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/18/12 15:29	1

Client: Ashland Inc.
Project/Site: HERC Brunswick Ph 3 RFI - GW MAY 2012

TestAmerica Job ID: 680-79571-1

Client Sample ID: Trip Blank 2
Date Collected: 05/16/12 00:00
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79571-10
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/18/12 15:29	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/18/12 15:29	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/18/12 15:29	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/18/12 15:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*70 - 130*		*05/18/12 15:29*	*1*
Dibromofluoromethane	*106*		*70 - 130*		*05/18/12 15:29*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*		*05/18/12 15:29*	*1*

Client: Ashland Inc.
Project/Site: HERC Brunswick Ph 3 RFI - GW MAY 2012

TestAmerica Job ID: 680-79571-1

Client Sample ID: FB-1
Date Collected: 05/16/12 00:00
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79571-11
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/18/12 16:26	1
Acetonitrile	40	U	40	10	ug/L			05/18/12 16:26	1
Acrolein	20	U	20	7.4	ug/L			05/18/12 16:26	1
Acrylonitrile	20	U	20	7.2	ug/L			05/18/12 16:26	1
Benzene	1.0	U	1.0	0.25	ug/L			05/18/12 16:26	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/18/12 16:26	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/18/12 16:26	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/18/12 16:26	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/18/12 16:26	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/18/12 16:26	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			05/18/12 16:26	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			05/18/12 16:26	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/18/12 16:26	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/18/12 16:26	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/18/12 16:26	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			05/18/12 16:26	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/18/12 16:26	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/18/12 16:26	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/18/12 16:26	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/18/12 16:26	1
Dichlorobromomethane	1.0	U	1.0	0.25	ug/L			05/18/12 16:26	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/18/12 16:26	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/18/12 16:26	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/18/12 16:26	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/18/12 16:26	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/18/12 16:26	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/18/12 16:26	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			05/18/12 16:26	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/18/12 16:26	1
2-Hexanone	10	U	10	1.0	ug/L			05/18/12 16:26	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/18/12 16:26	1
Isobutyl alcohol	40	U	40	11	ug/L			05/18/12 16:26	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/18/12 16:26	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/18/12 16:26	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			05/18/12 16:26	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/18/12 16:26	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/18/12 16:26	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/18/12 16:26	1
Propionitrile	20	U	20	4.6	ug/L			05/18/12 16:26	1
Styrene	1.0	U	1.0	0.11	ug/L			05/18/12 16:26	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/18/12 16:26	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/18/12 16:26	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/18/12 16:26	1
Toluene	1.0	U	1.0	0.33	ug/L			05/18/12 16:26	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/18/12 16:26	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/18/12 16:26	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/18/12 16:26	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/18/12 16:26	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/18/12 16:26	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			05/18/12 16:26	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/18/12 16:26	1

Client: Ashland Inc.
Project/Site: HERC Brunswick Ph 3 RFI - GW MAY 2012

TestAmerica Job ID: 680-79571-1

Client Sample ID: FB-1
Date Collected: 05/16/12 00:00
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79571-11
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/18/12 16:26	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/18/12 16:26	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/18/12 16:26	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/18/12 16:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*70 - 130*		*05/18/12 16:26*	*1*
Dibromofluoromethane	*105*		*70 - 130*		*05/18/12 16:26*	*1*
Toluene-d8 (Surr)	*106*		*70 - 130*		*05/18/12 16:26*	*1*

Client: Ashland Inc.
Project/Site: HERC Brunswick Ph 3 RFI - GW MAY 2012

TestAmerica Job ID: 680-79571-1

Client Sample ID: EB-1
Date Collected: 05/16/12 11:15
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79571-12
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/18/12 15:57	1
Acetonitrile	40	U	40	10	ug/L			05/18/12 15:57	1
Acrolein	20	U	20	7.4	ug/L			05/18/12 15:57	1
Acrylonitrile	20	U	20	7.2	ug/L			05/18/12 15:57	1
Benzene	1.0	U	1.0	0.25	ug/L			05/18/12 15:57	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/18/12 15:57	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/18/12 15:57	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/18/12 15:57	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/18/12 15:57	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/18/12 15:57	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			05/18/12 15:57	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			05/18/12 15:57	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/18/12 15:57	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/18/12 15:57	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/18/12 15:57	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			05/18/12 15:57	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/18/12 15:57	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/18/12 15:57	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/18/12 15:57	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/18/12 15:57	1
Dichlorobromomethane	1.0	U	1.0	0.25	ug/L			05/18/12 15:57	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/18/12 15:57	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/18/12 15:57	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/18/12 15:57	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/18/12 15:57	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/18/12 15:57	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/18/12 15:57	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			05/18/12 15:57	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/18/12 15:57	1
2-Hexanone	10	U	10	1.0	ug/L			05/18/12 15:57	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/18/12 15:57	1
Isobutyl alcohol	40	U	40	11	ug/L			05/18/12 15:57	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/18/12 15:57	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/18/12 15:57	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			05/18/12 15:57	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/18/12 15:57	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/18/12 15:57	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/18/12 15:57	1
Propionitrile	20	U	20	4.6	ug/L			05/18/12 15:57	1
Styrene	1.0	U	1.0	0.11	ug/L			05/18/12 15:57	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/18/12 15:57	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/18/12 15:57	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/18/12 15:57	1
Toluene	1.0	U	1.0	0.33	ug/L			05/18/12 15:57	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/18/12 15:57	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/18/12 15:57	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/18/12 15:57	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/18/12 15:57	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/18/12 15:57	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			05/18/12 15:57	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/18/12 15:57	1

Client Sample ID: EB-1
Date Collected: 05/16/12 11:15
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79571-12
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/18/12 15:57	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/18/12 15:57	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/18/12 15:57	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/18/12 15:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*70 - 130*		*05/18/12 15:57*	*1*
Dibromofluoromethane	*106*		*70 - 130*		*05/18/12 15:57*	*1*
Toluene-d8 (Surr)	*108*		*70 - 130*		*05/18/12 15:57*	*1*

Method: 8081A_8082 - Organochlorine Pesticides & PCBs (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene, Technical	4.7	U	4.7	0.47	ug/L		05/18/12 15:41	05/25/12 00:30	1
Toxaphene, TAUC, Parlar 11-69	**0.90**	**J**	4.7	0.47	ug/L		05/18/12 15:41	05/25/12 00:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*46*		*40 - 130*	*05/18/12 15:41*	*05/25/12 00:30*	*1*
DCB Decachlorobiphenyl	*34*	*X*	*40 - 130*	*05/18/12 15:41*	*05/25/12 00:30*	*1*
Tetrachloro-m-xylene	*79*		*36 - 130*	*05/18/12 15:41*	*05/25/12 00:30*	*1*
Tetrachloro-m-xylene	*80*		*36 - 130*	*05/18/12 15:41*	*05/25/12 00:30*	*1*

Method: 8081A_8082 - Organochlorine Pesticides & PCBs (GC) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene, Technical	4.7	U H	4.7	0.47	ug/L		05/28/12 15:21	05/31/12 22:21	1
Toxaphene, TAUC, Parlar 11-69	4.7	U H	4.7	0.47	ug/L		05/28/12 15:21	05/31/12 22:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*58*		*40 - 130*	*05/28/12 15:21*	*05/31/12 22:21*	*1*
DCB Decachlorobiphenyl	*50*		*40 - 130*	*05/28/12 15:21*	*05/31/12 22:21*	*1*
Tetrachloro-m-xylene	*71*		*36 - 130*	*05/28/12 15:21*	*05/31/12 22:21*	*1*
Tetrachloro-m-xylene	*79*		*36 - 130*	*05/28/12 15:21*	*05/31/12 22:21*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.020	U	0.020	0.0052	mg/L		05/21/12 17:58	05/23/12 02:41	1
Arsenic	0.020	U	0.020	0.010	mg/L		05/21/12 17:58	05/23/12 02:41	1
Barium	0.010	U	0.010	0.0020	mg/L		05/21/12 17:58	05/23/12 02:41	1
Beryllium	0.0040	U	0.0040	0.00010	mg/L		05/21/12 17:58	05/23/12 02:41	1
Cadmium	0.0050	U	0.0050	0.0020	mg/L		05/21/12 17:58	05/23/12 02:41	1
Chromium	0.010	U	0.010	0.0020	mg/L		05/21/12 17:58	05/23/12 02:41	1
Cobalt	0.010	U	0.010	0.0010	mg/L		05/21/12 17:58	05/23/12 02:41	1
Copper	0.020	U	0.020	0.0050	mg/L		05/21/12 17:58	05/23/12 02:41	1
Lead	0.010	U	0.010	0.0034	mg/L		05/21/12 17:58	05/23/12 02:41	1
Nickel	0.040	U	0.040	0.0040	mg/L		05/21/12 17:58	05/23/12 02:41	1
Selenium	0.020	U	0.020	0.0064	mg/L		05/21/12 17:58	05/23/12 02:41	1
Silver	0.010	U	0.010	0.00097	mg/L		05/21/12 17:58	05/23/12 02:41	1
Thallium	0.025	U	0.025	0.0087	mg/L		05/21/12 17:58	05/23/12 02:41	1
Tin	0.050	U	0.050	0.0054	mg/L		05/21/12 17:58	05/23/12 02:41	1
Vanadium	0.010	U	0.010	0.0030	mg/L		05/21/12 17:58	05/23/12 02:41	1
Zinc	0.020	U	0.020	0.0063	mg/L		05/21/12 17:58	05/23/12 02:41	1

Client: Ashland Inc.
Project/Site: HERC Brunswick Ph 3 RFI - GW MAY 2012

TestAmerica Job ID: 680-79571-1

Client Sample ID: EB-1
Date Collected: 05/16/12 11:15
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79571-12
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020	0.000091	mg/L		05/18/12 12:35	05/22/12 11:07	1

Client: Ashland Inc.
Project/Site: HERC Brunswick Ph 3 RFI - GW MAY 2012

TestAmerica Job ID: 680-79571-1

Client Sample ID: EB-2
Date Collected: 05/16/12 11:30
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79571-13
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/18/12 15:00	1
Acetonitrile	40	U	40	10	ug/L			05/18/12 15:00	1
Acrolein	20	U	20	7.4	ug/L			05/18/12 15:00	1
Acrylonitrile	20	U	20	7.2	ug/L			05/18/12 15:00	1
Benzene	1.0	U	1.0	0.25	ug/L			05/18/12 15:00	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/18/12 15:00	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/18/12 15:00	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/18/12 15:00	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/18/12 15:00	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/18/12 15:00	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			05/18/12 15:00	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			05/18/12 15:00	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/18/12 15:00	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/18/12 15:00	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/18/12 15:00	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			05/18/12 15:00	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/18/12 15:00	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/18/12 15:00	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/18/12 15:00	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/18/12 15:00	1
Dichlorobromomethane	1.0	U	1.0	0.25	ug/L			05/18/12 15:00	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/18/12 15:00	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/18/12 15:00	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/18/12 15:00	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/18/12 15:00	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/18/12 15:00	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/18/12 15:00	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			05/18/12 15:00	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/18/12 15:00	1
2-Hexanone	10	U	10	1.0	ug/L			05/18/12 15:00	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/18/12 15:00	1
Isobutyl alcohol	40	U	40	11	ug/L			05/18/12 15:00	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/18/12 15:00	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/18/12 15:00	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			05/18/12 15:00	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/18/12 15:00	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/18/12 15:00	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/18/12 15:00	1
Propionitrile	20	U	20	4.6	ug/L			05/18/12 15:00	1
Styrene	1.0	U	1.0	0.11	ug/L			05/18/12 15:00	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/18/12 15:00	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/18/12 15:00	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/18/12 15:00	1
Toluene	1.0	U	1.0	0.33	ug/L			05/18/12 15:00	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/18/12 15:00	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/18/12 15:00	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/18/12 15:00	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/18/12 15:00	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/18/12 15:00	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			05/18/12 15:00	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/18/12 15:00	1

Client Sample ID: EB-2
Date Collected: 05/16/12 11:30
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79571-13
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/18/12 15:00	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/18/12 15:00	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/18/12 15:00	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/18/12 15:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*91*		*70 - 130*		*05/18/12 15:00*	*1*
Dibromofluoromethane	*106*		*70 - 130*		*05/18/12 15:00*	*1*
Toluene-d8 (Surr)	*108*		*70 - 130*		*05/18/12 15:00*	*1*

Method: 8081A_8082 - Organochlorine Pesticides & PCBs (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene, Technical	4.8	U	4.8	0.48	ug/L		05/18/12 15:41	05/25/12 00:49	1
Toxaphene, TAUC, Parlar 11-69	**0.94**	**J**	4.8	0.48	ug/L		05/18/12 15:41	05/25/12 00:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*24*	*X*	*40 - 130*	*05/18/12 15:41*	*05/25/12 00:49*	*1*
DCB Decachlorobiphenyl	*22*	*X*	*40 - 130*	*05/18/12 15:41*	*05/25/12 00:49*	*1*
Tetrachloro-m-xylene	*77*		*36 - 130*	*05/18/12 15:41*	*05/25/12 00:49*	*1*
Tetrachloro-m-xylene	*64*		*36 - 130*	*05/18/12 15:41*	*05/25/12 00:49*	*1*

Method: 8081A_8082 - Organochlorine Pesticides & PCBs (GC) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene, Technical	4.7	U H	4.7	0.47	ug/L		05/28/12 15:21	05/31/12 22:40	1
Toxaphene, TAUC, Parlar 11-69	4.7	U H	4.7	0.47	ug/L		05/28/12 15:21	05/31/12 22:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*47*		*40 - 130*	*05/28/12 15:21*	*05/31/12 22:40*	*1*
DCB Decachlorobiphenyl	*44*		*40 - 130*	*05/28/12 15:21*	*05/31/12 22:40*	*1*
Tetrachloro-m-xylene	*71*		*36 - 130*	*05/28/12 15:21*	*05/31/12 22:40*	*1*
Tetrachloro-m-xylene	*81*		*36 - 130*	*05/28/12 15:21*	*05/31/12 22:40*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.020	U	0.020	0.0052	mg/L		05/21/12 17:58	05/23/12 02:45	1
Arsenic	0.020	U	0.020	0.010	mg/L		05/21/12 17:58	05/23/12 02:45	1
Barium	0.010	U	0.010	0.0020	mg/L		05/21/12 17:58	05/23/12 02:45	1
Beryllium	0.0040	U	0.0040	0.00010	mg/L		05/21/12 17:58	05/23/12 02:45	1
Cadmium	0.0050	U	0.0050	0.0020	mg/L		05/21/12 17:58	05/23/12 02:45	1
Chromium	0.010	U	0.010	0.0020	mg/L		05/21/12 17:58	05/23/12 02:45	1
Cobalt	0.010	U	0.010	0.0010	mg/L		05/21/12 17:58	05/23/12 02:45	1
Copper	0.020	U	0.020	0.0050	mg/L		05/21/12 17:58	05/23/12 02:45	1
Lead	0.010	U	0.010	0.0034	mg/L		05/21/12 17:58	05/23/12 02:45	1
Nickel	0.040	U	0.040	0.0040	mg/L		05/21/12 17:58	05/23/12 02:45	1
Selenium	0.020	U	0.020	0.0064	mg/L		05/21/12 17:58	05/23/12 02:45	1
Silver	0.010	U	0.010	0.00097	mg/L		05/21/12 17:58	05/23/12 02:45	1
Thallium	0.025	U	0.025	0.0087	mg/L		05/21/12 17:58	05/23/12 02:45	1
Tin	0.050	U	0.050	0.0054	mg/L		05/21/12 17:58	05/23/12 02:45	1
Vanadium	0.010	U	0.010	0.0030	mg/L		05/21/12 17:58	05/23/12 02:45	1
Zinc	0.020	U	0.020	0.0063	mg/L		05/21/12 17:58	05/23/12 02:45	1

Client: Ashland Inc.
Project/Site: HERC Brunswick Ph 3 RFI - GW MAY 2012

TestAmerica Job ID: 680-79571-1

Client Sample ID: EB-2
Date Collected: 05/16/12 11:30
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79571-13
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020	0.000091	mg/L		05/18/12 12:35	05/22/12 11:11	1

Client: Ashland Inc.
Project/Site: HERC Brunswick Ph 3 RFI - GW MAY 2012

TestAmerica Job ID: 680-79571-1

Client Sample ID: EB-3
Date Collected: 05/16/12 11:45
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79571-14
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/18/12 14:31	1
Acetonitrile	40	U	40	10	ug/L			05/18/12 14:31	1
Acrolein	20	U	20	7.4	ug/L			05/18/12 14:31	1
Acrylonitrile	20	U	20	7.2	ug/L			05/18/12 14:31	1
Benzene	1.0	U	1.0	0.25	ug/L			05/18/12 14:31	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/18/12 14:31	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/18/12 14:31	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/18/12 14:31	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/18/12 14:31	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/18/12 14:31	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			05/18/12 14:31	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			05/18/12 14:31	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/18/12 14:31	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/18/12 14:31	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/18/12 14:31	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			05/18/12 14:31	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/18/12 14:31	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/18/12 14:31	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/18/12 14:31	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/18/12 14:31	1
Dichlorobromomethane	1.0	U	1.0	0.25	ug/L			05/18/12 14:31	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/18/12 14:31	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/18/12 14:31	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/18/12 14:31	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/18/12 14:31	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/18/12 14:31	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/18/12 14:31	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			05/18/12 14:31	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/18/12 14:31	1
2-Hexanone	10	U	10	1.0	ug/L			05/18/12 14:31	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/18/12 14:31	1
Isobutyl alcohol	40	U	40	11	ug/L			05/18/12 14:31	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/18/12 14:31	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/18/12 14:31	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			05/18/12 14:31	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/18/12 14:31	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/18/12 14:31	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/18/12 14:31	1
Propionitrile	20	U	20	4.6	ug/L			05/18/12 14:31	1
Styrene	1.0	U	1.0	0.11	ug/L			05/18/12 14:31	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/18/12 14:31	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/18/12 14:31	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/18/12 14:31	1
Toluene	1.0	U	1.0	0.33	ug/L			05/18/12 14:31	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/18/12 14:31	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/18/12 14:31	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/18/12 14:31	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/18/12 14:31	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/18/12 14:31	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			05/18/12 14:31	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/18/12 14:31	1

Client Sample ID: EB-3
Date Collected: 05/16/12 11:45
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79571-14
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/18/12 14:31	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/18/12 14:31	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/18/12 14:31	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/18/12 14:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*70 - 130*		*05/18/12 14:31*	*1*
Dibromofluoromethane	*107*		*70 - 130*		*05/18/12 14:31*	*1*
Toluene-d8 (Surr)	*107*		*70 - 130*		*05/18/12 14:31*	*1*

Method: 8081A_8082 - Organochlorine Pesticides & PCBs (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene, Technical	4.7	U	4.7	0.47	ug/L		05/18/12 15:41	05/25/12 01:09	1
Toxaphene, TAUC, Parlar 11-69	4.7	U	4.7	0.47	ug/L		05/18/12 15:41	05/25/12 01:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*27*	*X*	*40 - 130*	*05/18/12 15:41*	*05/25/12 01:09*	*1*
DCB Decachlorobiphenyl	*23*	*X*	*40 - 130*	*05/18/12 15:41*	*05/25/12 01:09*	*1*
Tetrachloro-m-xylene	*66*		*36 - 130*	*05/18/12 15:41*	*05/25/12 01:09*	*1*
Tetrachloro-m-xylene	*61*		*36 - 130*	*05/18/12 15:41*	*05/25/12 01:09*	*1*

Method: 8081A_8082 - Organochlorine Pesticides & PCBs (GC) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene, Technical	5.0	U H	5.0	0.50	ug/L		05/28/12 15:21	05/31/12 23:00	1
Toxaphene, TAUC, Parlar 11-69	5.0	U H	5.0	0.50	ug/L		05/28/12 15:21	05/31/12 23:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*41*		*40 - 130*	*05/28/12 15:21*	*05/31/12 23:00*	*1*
DCB Decachlorobiphenyl	*38*	*X*	*40 - 130*	*05/28/12 15:21*	*05/31/12 23:00*	*1*
Tetrachloro-m-xylene	*77*		*36 - 130*	*05/28/12 15:21*	*05/31/12 23:00*	*1*
Tetrachloro-m-xylene	*80*		*36 - 130*	*05/28/12 15:21*	*05/31/12 23:00*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.020	U	0.020	0.0052	mg/L		05/21/12 17:58	05/23/12 02:50	1
Arsenic	0.020	U	0.020	0.010	mg/L		05/21/12 17:58	05/23/12 02:50	1
Barium	0.010	U	0.010	0.0020	mg/L		05/21/12 17:58	05/23/12 02:50	1
Beryllium	0.0040	U	0.0040	0.00010	mg/L		05/21/12 17:58	05/23/12 02:50	1
Cadmium	0.0050	U	0.0050	0.0020	mg/L		05/21/12 17:58	05/23/12 02:50	1
Chromium	0.010	U	0.010	0.0020	mg/L		05/21/12 17:58	05/23/12 02:50	1
Cobalt	0.010	U	0.010	0.0010	mg/L		05/21/12 17:58	05/23/12 02:50	1
Copper	0.020	U	0.020	0.0050	mg/L		05/21/12 17:58	05/23/12 02:50	1
Lead	0.010	U	0.010	0.0034	mg/L		05/21/12 17:58	05/23/12 02:50	1
Nickel	0.040	U	0.040	0.0040	mg/L		05/21/12 17:58	05/23/12 02:50	1
Selenium	0.020	U	0.020	0.0064	mg/L		05/21/12 17:58	05/23/12 02:50	1
Silver	0.010	U	0.010	0.00097	mg/L		05/21/12 17:58	05/23/12 02:50	1
Thallium	0.025	U	0.025	0.0087	mg/L		05/21/12 17:58	05/23/12 02:50	1
Tin	0.050	U	0.050	0.0054	mg/L		05/21/12 17:58	05/23/12 02:50	1
Vanadium	0.010	U	0.010	0.0030	mg/L		05/21/12 17:58	05/23/12 02:50	1
Zinc	0.020	U	0.020	0.0063	mg/L		05/21/12 17:58	05/23/12 02:50	1

Client: Ashland Inc.
Project/Site: HERC Brunswick Ph 3 RFI - GW MAY 2012

TestAmerica Job ID: 680-79571-1

Client Sample ID: EB-3
Date Collected: 05/16/12 11:45
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79571-14
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020	0.000091	mg/L		05/18/12 12:35	05/22/12 11:15	1

Client: Ashland Inc.
Project/Site: HERC Brunswick Ph 3 RFI - GW MAY 2012

TestAmerica Job ID: 680-79571-1

Client Sample ID: MW-42S
Date Collected: 05/16/12 19:30
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79571-15
Matrix: Water

Method: 8081A_8082 - Organochlorine Pesticides & PCBs (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene, Technical	2500	U	2500	250	ug/L		05/18/12 15:41	05/24/12 20:57	500
Toxaphene, TAUC, Parlar 11-69	**1000**	**J**	2500	250	ug/L		05/18/12 15:41	05/24/12 20:57	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*0*	*D*	*40 - 130*	*05/18/12 15:41*	*05/24/12 20:57*	*500*
DCB Decachlorobiphenyl	*0*	*D*	*40 - 130*	*05/18/12 15:41*	*05/24/12 20:57*	*500*
Tetrachloro-m-xylene	*0*	*D*	*36 - 130*	*05/18/12 15:41*	*05/24/12 20:57*	*500*
Tetrachloro-m-xylene	*0*	*D*	*36 - 130*	*05/18/12 15:41*	*05/24/12 20:57*	*500*

Method: 8081A_8082 - Organochlorine Pesticides & PCBs (GC) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene, Technical	**1200**	**H**	250	25	ug/L		05/28/12 15:21	05/31/12 23:19	50
Toxaphene, TAUC, Parlar 11-69	**640**	**H**	250	25	ug/L		05/28/12 15:21	05/31/12 23:19	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*0*	*D*	*40 - 130*	*05/28/12 15:21*	*05/31/12 23:19*	*50*
DCB Decachlorobiphenyl	*0*	*D*	*40 - 130*	*05/28/12 15:21*	*05/31/12 23:19*	*50*
Tetrachloro-m-xylene	*0*	*D*	*36 - 130*	*05/28/12 15:21*	*05/31/12 23:19*	*50*
Tetrachloro-m-xylene	*0*	*D*	*36 - 130*	*05/28/12 15:21*	*05/31/12 23:19*	*50*

Client: Ashland Inc.
Project/Site: HERC Brunswick Ph 3 RFI - GW MAY 2012

TestAmerica Job ID: 680-79571-1

Client Sample ID: MW-42S
Date Collected: 05/16/12 19:30
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79571-16
Matrix: Waste

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	21000	U	21000	21000	ug/Kg		05/21/12 11:30	05/22/12 13:18	40
Acetonitrile	84000	U	84000	84000	ug/Kg		05/21/12 11:30	05/22/12 13:18	40
Acrolein	42000	U	42000	42000	ug/Kg		05/21/12 11:30	05/22/12 13:18	40
Acrylonitrile	42000	U	42000	42000	ug/Kg		05/21/12 11:30	05/22/12 13:18	40
Allyl chloride	2100	U	2100	2100	ug/Kg		05/21/12 11:30	05/22/12 13:18	40
Benzene	**5500**		2100	2100	ug/Kg		05/21/12 11:30	05/22/12 13:18	40
Bromodichloromethane	2100	U	2100	2100	ug/Kg		05/21/12 11:30	05/22/12 13:18	40
Bromoform	2100	U	2100	2100	ug/Kg		05/21/12 11:30	05/22/12 13:18	40
Bromomethane	2100	U	2100	2100	ug/Kg		05/21/12 11:30	05/22/12 13:18	40
2-Butanone	11000	U	11000	11000	ug/Kg		05/21/12 11:30	05/22/12 13:18	40
Carbon disulfide	2100	U	2100	2100	ug/Kg		05/21/12 11:30	05/22/12 13:18	40
Carbon tetrachloride	2100	U	2100	2100	ug/Kg		05/21/12 11:30	05/22/12 13:18	40
Chlorobenzene	**2400**		2100	2100	ug/Kg		05/21/12 11:30	05/22/12 13:18	40
Chloroethane	2100	U *	2100	2100	ug/Kg		05/21/12 11:30	05/22/12 13:18	40
Chloroform	**36000**		2100	2100	ug/Kg		05/21/12 11:30	05/22/12 13:18	40
Chloromethane	2100	U	2100	2100	ug/Kg		05/21/12 11:30	05/22/12 13:18	40
Chloroprene	2100	U	2100	2100	ug/Kg		05/21/12 11:30	05/22/12 13:18	40
cis-1,3-Dichloropropene	2100	U	2100	2100	ug/Kg		05/21/12 11:30	05/22/12 13:18	40
Dibromochloromethane	2100	U	2100	2100	ug/Kg		05/21/12 11:30	05/22/12 13:18	40
1,2-Dibromo-3-Chloropropane	4200	U	4200	4200	ug/Kg		05/21/12 11:30	05/22/12 13:18	40
1,2-Dibromoethane	2100	U	2100	2100	ug/Kg		05/21/12 11:30	05/22/12 13:18	40
Dibromomethane	2100	U	2100	2100	ug/Kg		05/21/12 11:30	05/22/12 13:18	40
1,4-Dichlorobenzene	2100	U	2100	2100	ug/Kg		05/21/12 11:30	05/22/12 13:18	40
1,3-Dichlorobenzene	2100	U	2100	2100	ug/Kg		05/21/12 11:30	05/22/12 13:18	40
1,2-Dichlorobenzene	2100	U	2100	2100	ug/Kg		05/21/12 11:30	05/22/12 13:18	40
Dichlorodifluoromethane	2100	U	2100	2100	ug/Kg		05/21/12 11:30	05/22/12 13:18	40
1,2-Dichloroethane	2100	U	2100	2100	ug/Kg		05/21/12 11:30	05/22/12 13:18	40
1,1-Dichloroethane	2100	U	2100	2100	ug/Kg		05/21/12 11:30	05/22/12 13:18	40
1,1-Dichloroethene	2100	U	2100	2100	ug/Kg		05/21/12 11:30	05/22/12 13:18	40
1,2-Dichloropropane	2100	U	2100	2100	ug/Kg		05/21/12 11:30	05/22/12 13:18	40
1,4-Dioxane	21000	U	21000	21000	ug/Kg		05/21/12 11:30	05/22/12 13:18	40
Ethylbenzene	2100	U	2100	2100	ug/Kg		05/21/12 11:30	05/22/12 13:18	40
Ethyl methacrylate	2100	U	2100	2100	ug/Kg		05/21/12 11:30	05/22/12 13:18	40
2-Hexanone	11000	U	11000	11000	ug/Kg		05/21/12 11:30	05/22/12 13:18	40
Iodomethane	2100	U	2100	2100	ug/Kg		05/21/12 11:30	05/22/12 13:18	40
Isobutanol	84000	U	84000	84000	ug/Kg		05/21/12 11:30	05/22/12 13:18	40
Methacrylonitrile	42000	U	42000	42000	ug/Kg		05/21/12 11:30	05/22/12 13:18	40
Methylene Chloride	2100	U	2100	2100	ug/Kg		05/21/12 11:30	05/22/12 13:18	40
Methyl methacrylate	4200	U	4200	4200	ug/Kg		05/21/12 11:30	05/22/12 13:18	40
4-Methyl-2-pentanone	11000	U	11000	11000	ug/Kg		05/21/12 11:30	05/22/12 13:18	40
Pentachloroethane	11000	U	11000	11000	ug/Kg		05/21/12 11:30	05/22/12 13:18	40
Propionitrile	42000	U	42000	42000	ug/Kg		05/21/12 11:30	05/22/12 13:18	40
Styrene	2100	U	2100	2100	ug/Kg		05/21/12 11:30	05/22/12 13:18	40
1,1,1,2-Tetrachloroethane	2100	U	2100	2100	ug/Kg		05/21/12 11:30	05/22/12 13:18	40
1,1,2,2-Tetrachloroethane	2100	U	2100	2100	ug/Kg		05/21/12 11:30	05/22/12 13:18	40
Tetrachloroethene	2100	U	2100	2100	ug/Kg		05/21/12 11:30	05/22/12 13:18	40
Toluene	2100	U	2100	2100	ug/Kg		05/21/12 11:30	05/22/12 13:18	40
trans-1,4-Dichloro-2-butene	4200	U	4200	4200	ug/Kg		05/21/12 11:30	05/22/12 13:18	40
trans-1,2-Dichloroethene	2100	U	2100	2100	ug/Kg		05/21/12 11:30	05/22/12 13:18	40
trans-1,3-Dichloropropene	2100	U	2100	2100	ug/Kg		05/21/12 11:30	05/22/12 13:18	40
1,2,4-Trichlorobenzene	2100	U	2100	2100	ug/Kg		05/21/12 11:30	05/22/12 13:18	40

Client: Ashland Inc.
Project/Site: HERC Brunswick Ph 3 RFI - GW MAY 2012

TestAmerica Job ID: 680-79571-1

Client Sample ID: MW-42S
Date Collected: 05/16/12 19:30
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79571-16
Matrix: Waste

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2100	U	2100	2100	ug/Kg		05/21/12 11:30	05/22/12 13:18	40
1,1,2-Trichloroethane	2100	U	2100	2100	ug/Kg		05/21/12 11:30	05/22/12 13:18	40
Trichloroethene	2100	U	2100	2100	ug/Kg		05/21/12 11:30	05/22/12 13:18	40
Trichlorofluoromethane	2100	U	2100	2100	ug/Kg		05/21/12 11:30	05/22/12 13:18	40
1,2,3-Trichloropropane	2100	U	2100	2100	ug/Kg		05/21/12 11:30	05/22/12 13:18	40
Vinyl acetate	4200	U	4200	4200	ug/Kg		05/21/12 11:30	05/22/12 13:18	40
Vinyl chloride	2100	U	2100	2100	ug/Kg		05/21/12 11:30	05/22/12 13:18	40
Xylenes, Total	4200	U	4200	4200	ug/Kg		05/21/12 11:30	05/22/12 13:18	40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*30 - 130*	*05/21/12 11:30*	*05/22/12 13:18*	*40*
Dibromofluoromethane	*105*		*30 - 130*	*05/21/12 11:30*	*05/22/12 13:18*	*40*
Toluene-d8 (Surr)	*100*		*30 - 130*	*05/21/12 11:30*	*05/22/12 13:18*	*40*

Surrogate Summary

Client: Ashland Inc.
Project/Site: HERC Brunswick Ph 3 RFI - GW MAY 2012

TestAmerica Job ID: 680-79571-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Waste — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(30-130)	(30-130)	(30-130)
680-79571-16	MW-42S	101	105	100
LCSD 680-238122/5	Lab Control Sample Dup	94	112	96
MB 680-238122/7	Method Blank	100	109	100

Surrogate Legend

BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)
680-79571-1	MW-42I	98	97	110
680-79571-2	MW-42D	101	98	108
680-79571-3	MW-43S	92	105	106
680-79571-4	MW-43I	93	106	107
680-79571-5	MW-43D	95	102	108
680-79571-6	MW-49S	96	97	105
680-79571-7	MW-49I	96	97	105
680-79571-8	MW-49D	93	96	105
680-79571-9	Dup-1	95	97	106
680-79571-9 MS	Dup-1	97	104	106
680-79571-9 MSD	Dup-1	102	108	109
680-79571-10	Trip Blank 2	93	106	105
680-79571-11	FB-1	95	105	106
680-79571-12	EB-1	92	106	108
680-79571-13	EB-2	91	106	108
680-79571-14	EB-3	92	107	107
LCS 680-237819/4	Lab Control Sample	101	104	107
LCS 680-237898/4	Lab Control Sample	100	104	106
LCS 680-237899/1	Lab Control Sample	100	109	111
LCS 680-237953/4	Lab Control Sample	101	108	111
LCS 680-238266/4	Lab Control Sample	104	104	105
LCSD 680-237819/5	Lab Control Sample Dup	102	103	107
LCSD 680-237898/5	Lab Control Sample Dup	99	99	103
LCSD 680-237899/2	Lab Control Sample Dup	101	107	108
LCSD 680-237953/5	Lab Control Sample Dup	98	107	110
LCSD 680-238266/5	Lab Control Sample Dup	104	100	107
MB 680-237819/7	Method Blank	94	105	108
MB 680-237898/7	Method Blank	95	100	106
MB 680-237899/8	Method Blank	91	107	106
MB 680-237953/7	Method Blank	94	104	107
MB 680-238266/7	Method Blank	92	108	106

Surrogate Legend

BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Surrogate Summary

Client: Ashland Inc.
Project/Site: HERC Brunswick Ph 3 RFI - GW MAY 2012

TestAmerica Job ID: 680-79571-1

Method: 8081A_8082 - Organochlorine Pesticides & PCBs (GC)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(40-130)	(40-130)	(36-130)	(36-130)
680-79571-1	MW-42I	0 D	0 D	0 D	0 D
680-79571-1 - RE	MW-42I	0 D	0 D	0 D	0 D
680-79571-2	MW-42D	0 D	0 D	0 D	0 D
680-79571-2 - RE	MW-42D	0 D	0 D	0 D	0 D
680-79571-3	MW-43S	21 X	17 X	52	61
680-79571-3 - RE	MW-43S	16 X	17 X	63	69
680-79571-4	MW-43I	24 X	12 p X	42	54
680-79571-4 - RE	MW-43I	46	26 X	60	73
680-79571-5	MW-43D	0 D	0 D	0 D	0 D
680-79571-5 - RE	MW-43D	0 D	0 D	0 D	0 D
680-79571-9	Dup-1	51	25 p X	70	69
680-79571-9 - RE	Dup-1	49	28 X	63	76
680-79571-9 MS	Dup-1	49	21 p X	65	86
680-79571-9 MSD	Dup-1	66	21 p X	52	76
680-79571-12	EB-1	46	34 X	79	80
680-79571-12 - RE	EB-1	58	50	71	79
680-79571-13	EB-2	24 X	22 X	77	64
680-79571-13 - RE	EB-2	47	44	71	81
680-79571-14	EB-3	27 X	23 X	66	61
680-79571-14 - RE	EB-3	41	38 X	77	80
680-79571-15	MW-42S	0 D	0 D	0 D	0 D
680-79571-15 - RE	MW-42S	0 D	0 D	0 D	0 D
LCS 680-237769/21-A	Lab Control Sample	35 X	32 X	85	76
LCS 680-238605/18-A	Lab Control Sample	46	41	77	72
LCSD 680-238605/19-A	Lab Control Sample Dup	55	49	87	85
MB 680-237769/17-A	Method Blank	19 X	20 X	66	74
MB 680-238605/17-A	Method Blank	57	52	82	82

Surrogate Legend

DCB = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-237819/7
Matrix: Water
Analysis Batch: 237819

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/18/12 13:05	1
Acetonitrile	40	U	40	10	ug/L			05/18/12 13:05	1
Acrolein	20	U	20	7.4	ug/L			05/18/12 13:05	1
Acrylonitrile	20	U	20	7.2	ug/L			05/18/12 13:05	1
Benzene	1.0	U	1.0	0.25	ug/L			05/18/12 13:05	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/18/12 13:05	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/18/12 13:05	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/18/12 13:05	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/18/12 13:05	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/18/12 13:05	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			05/18/12 13:05	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/18/12 13:05	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/18/12 13:05	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/18/12 13:05	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/18/12 13:05	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			05/18/12 13:05	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/18/12 13:05	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			05/18/12 13:05	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/18/12 13:05	1
Dichlorobromomethane	1.0	U	1.0	0.25	ug/L			05/18/12 13:05	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/18/12 13:05	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/18/12 13:05	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/18/12 13:05	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			05/18/12 13:05	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/18/12 13:05	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/18/12 13:05	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/18/12 13:05	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/18/12 13:05	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/18/12 13:05	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			05/18/12 13:05	1
2-Hexanone	10	U	10	1.0	ug/L			05/18/12 13:05	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/18/12 13:05	1
Isobutyl alcohol	40	U	40	11	ug/L			05/18/12 13:05	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/18/12 13:05	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/18/12 13:05	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/18/12 13:05	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/18/12 13:05	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/18/12 13:05	1
Propionitrile	20	U	20	4.6	ug/L			05/18/12 13:05	1
Styrene	1.0	U	1.0	0.11	ug/L			05/18/12 13:05	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/18/12 13:05	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/18/12 13:05	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/18/12 13:05	1
Toluene	1.0	U	1.0	0.33	ug/L			05/18/12 13:05	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/18/12 13:05	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/18/12 13:05	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/18/12 13:05	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/18/12 13:05	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/18/12 13:05	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-237819/7
Matrix: Water
Analysis Batch: 237819

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	1.0	U	1.0	0.13	ug/L			05/18/12 13:05	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/18/12 13:05	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/18/12 13:05	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/18/12 13:05	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/18/12 13:05	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/18/12 13:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*70 - 130*		*05/18/12 13:05*	*1*
Dibromofluoromethane	*105*		*70 - 130*		*05/18/12 13:05*	*1*
Toluene-d8 (Surr)	*108*		*70 - 130*		*05/18/12 13:05*	*1*

Lab Sample ID: LCS 680-237819/4
Matrix: Water
Analysis Batch: 237819

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	100	110		ug/L		110	26 - 180
Benzene	50.0	50.5		ug/L		101	70 - 130
Bromoform	50.0	41.6		ug/L		83	70 - 130
Bromomethane	50.0	47.3		ug/L		95	23 - 165
Carbon disulfide	50.0	46.4		ug/L		93	54 - 132
Carbon tetrachloride	50.0	56.2		ug/L		112	70 - 130
Chlorobenzene	50.0	48.8		ug/L		98	70 - 130
Chloroethane	50.0	45.7		ug/L		91	56 - 152
Chloroform	50.0	48.8		ug/L		98	70 - 130
cis-1,2-Dichloroethene	50.0	50.1		ug/L		100	70 - 130
Chloromethane	50.0	56.9		ug/L		114	70 - 130
cis-1,3-Dichloropropene	50.0	61.0		ug/L		122	70 - 130
Chlorodibromomethane	50.0	51.8		ug/L		104	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	49.8		ug/L		100	70 - 130
Dichlorobromomethane	50.0	53.9		ug/L		108	70 - 130
Dibromomethane	50.0	52.2		ug/L		104	70 - 130
Dichlorodifluoromethane	50.0	50.7		ug/L		101	44 - 146
1,2-Dichloroethane	50.0	55.6		ug/L		111	70 - 130
Ethylene Dibromide	50.0	52.9		ug/L		106	70 - 130
1,1-Dichloroethane	50.0	51.7		ug/L		103	70 - 130
1,1-Dichloroethene	50.0	48.4		ug/L		97	66 - 131
1,2-Dichloropropane	50.0	53.2		ug/L		106	70 - 130
Ethylbenzene	50.0	50.5		ug/L		101	70 - 130
2-Butanone (MEK)	100	103		ug/L		103	49 - 172
2-Hexanone	100	103		ug/L		103	42 - 185
Methylene Chloride	50.0	48.2		ug/L		96	67 - 130
4-Methyl-2-pentanone (MIBK)	100	104		ug/L		104	70 - 130
Styrene	50.0	51.4		ug/L		103	70 - 130
1,1,1,2-Tetrachloroethane	50.0	54.3		ug/L		109	70 - 130
1,1,2,2-Tetrachloroethane	50.0	49.8		ug/L		100	70 - 130
Tetrachloroethene	50.0	49.9		ug/L		100	70 - 130
Toluene	50.0	52.0		ug/L		104	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-237819/4
Matrix: Water
Analysis Batch: 237819

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
trans-1,2-Dichloroethene			50.0	52.2		ug/L		104	70 - 130		
trans-1,3-Dichloropropene			50.0	53.7		ug/L		107	70 - 130		
1,1,1-Trichloroethane			50.0	56.6		ug/L		113	70 - 130		
1,1,2-Trichloroethane			50.0	51.6		ug/L		103	70 - 130		
Trichloroethene			50.0	52.3		ug/L		105	70 - 130		
Trichlorofluoromethane			50.0	51.2		ug/L		102	55 - 156		
1,2,3-Trichloropropane			50.0	48.8		ug/L		98	70 - 130		
Vinyl acetate			100	117		ug/L		117	60 - 176		
Vinyl chloride			50.0	49.0		ug/L		98	67 - 134		
Xylenes, Total			150	153		ug/L		102	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*70 - 130*
Dibromofluoromethane	*104*		*70 - 130*
Toluene-d8 (Surr)	*107*		*70 - 130*

Lab Sample ID: LCSD 680-237819/5
Matrix: Water
Analysis Batch: 237819

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone			100	105		ug/L		105	26 - 180	5	50
Benzene			50.0	49.1		ug/L		98	70 - 130	3	30
Bromoform			50.0	41.3		ug/L		83	70 - 130	1	30
Bromomethane			50.0	64.3		ug/L		129	23 - 165	30	50
Carbon disulfide			50.0	45.3		ug/L		91	54 - 132	3	30
Carbon tetrachloride			50.0	55.5		ug/L		111	70 - 130	1	30
Chlorobenzene			50.0	49.6		ug/L		99	70 - 130	2	30
Chloroethane			50.0	44.8		ug/L		90	56 - 152	2	40
Chloroform			50.0	48.5		ug/L		97	70 - 130	1	30
cis-1,2-Dichloroethene			50.0	50.2		ug/L		100	70 - 130	0	30
Chloromethane			50.0	56.1		ug/L		112	70 - 130	1	30
cis-1,3-Dichloropropene			50.0	61.2		ug/L		122	70 - 130	0	30
Chlorodibromomethane			50.0	51.7		ug/L		103	70 - 130	0	50
1,2-Dibromo-3-Chloropropane			50.0	48.3		ug/L		97	70 - 130	3	50
Dichlorobromomethane			50.0	53.5		ug/L		107	70 - 130	1	30
Dibromomethane			50.0	50.2		ug/L		100	70 - 130	4	30
Dichlorodifluoromethane			50.0	50.6		ug/L		101	44 - 146	0	50
1,2-Dichloroethane			50.0	53.6		ug/L		107	70 - 130	4	30
Ethylene Dibromide			50.0	51.0		ug/L		102	70 - 130	4	30
1,1-Dichloroethane			50.0	51.8		ug/L		104	70 - 130	0	30
1,1-Dichloroethene			50.0	47.9		ug/L		96	66 - 131	1	30
1,2-Dichloropropane			50.0	51.4		ug/L		103	70 - 130	3	30
Ethylbenzene			50.0	50.3		ug/L		101	70 - 130	0	30
2-Butanone (MEK)			100	103		ug/L		103	49 - 172	0	30
2-Hexanone			100	106		ug/L		106	42 - 185	3	30
Methylene Chloride			50.0	48.3		ug/L		97	67 - 130	0	30
4-Methyl-2-pentanone (MIBK)			100	103		ug/L		103	70 - 130	1	30
Styrene			50.0	52.3		ug/L		105	70 - 130	2	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-237819/5
Matrix: Water
Analysis Batch: 237819

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane			50.0	53.2		ug/L		106	70 - 130	2	30
1,1,2,2-Tetrachloroethane			50.0	50.0		ug/L		100	70 - 130	0	30
Tetrachloroethene			50.0	49.5		ug/L		99	70 - 130	1	30
Toluene			50.0	51.3		ug/L		103	70 - 130	1	30
trans-1,2-Dichloroethene			50.0	51.6		ug/L		103	70 - 130	1	30
trans-1,3-Dichloropropene			50.0	53.0		ug/L		106	70 - 130	1	50
1,1,1-Trichloroethane			50.0	56.3		ug/L		113	70 - 130	1	30
1,1,2-Trichloroethane			50.0	51.3		ug/L		103	70 - 130	0	30
Trichloroethene			50.0	52.1		ug/L		104	70 - 130	1	30
Trichlorofluoromethane			50.0	48.4		ug/L		97	55 - 156	6	30
1,2,3-Trichloropropane			50.0	48.4		ug/L		97	70 - 130	1	30
Vinyl acetate			100	118		ug/L		118	60 - 176	1	30
Vinyl chloride			50.0	47.8		ug/L		96	67 - 134	2	30
Xylenes, Total			150	155		ug/L		103	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*102*		*70 - 130*
Dibromofluoromethane	*103*		*70 - 130*
Toluene-d8 (Surr)	*107*		*70 - 130*

Lab Sample ID: MB 680-237898/7
Matrix: Water
Analysis Batch: 237898

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/19/12 09:43	1
Acetonitrile	40	U	40	10	ug/L			05/19/12 09:43	1
Acrolein	20	U	20	7.4	ug/L			05/19/12 09:43	1
Acrylonitrile	20	U	20	7.2	ug/L			05/19/12 09:43	1
Benzene	1.0	U	1.0	0.25	ug/L			05/19/12 09:43	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/19/12 09:43	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/19/12 09:43	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/19/12 09:43	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/19/12 09:43	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/19/12 09:43	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			05/19/12 09:43	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/19/12 09:43	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/19/12 09:43	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/19/12 09:43	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/19/12 09:43	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			05/19/12 09:43	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/19/12 09:43	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			05/19/12 09:43	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/19/12 09:43	1
Dichlorobromomethane	1.0	U	1.0	0.25	ug/L			05/19/12 09:43	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/19/12 09:43	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/19/12 09:43	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/19/12 09:43	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			05/19/12 09:43	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-237898/7
Matrix: Water
Analysis Batch: 237898

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/19/12 09:43	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/19/12 09:43	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/19/12 09:43	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/19/12 09:43	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/19/12 09:43	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			05/19/12 09:43	1
2-Hexanone	10	U	10	1.0	ug/L			05/19/12 09:43	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/19/12 09:43	1
Isobutyl alcohol	40	U	40	11	ug/L			05/19/12 09:43	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/19/12 09:43	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/19/12 09:43	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/19/12 09:43	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/19/12 09:43	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/19/12 09:43	1
Propionitrile	20	U	20	4.6	ug/L			05/19/12 09:43	1
Styrene	1.0	U	1.0	0.11	ug/L			05/19/12 09:43	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/19/12 09:43	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/19/12 09:43	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/19/12 09:43	1
Toluene	1.0	U	1.0	0.33	ug/L			05/19/12 09:43	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/19/12 09:43	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/19/12 09:43	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/19/12 09:43	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/19/12 09:43	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/19/12 09:43	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			05/19/12 09:43	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/19/12 09:43	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/19/12 09:43	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/19/12 09:43	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/19/12 09:43	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/19/12 09:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*70 - 130*		*05/19/12 09:43*	*1*
Dibromofluoromethane	*100*		*70 - 130*		*05/19/12 09:43*	*1*
Toluene-d8 (Surr)	*106*		*70 - 130*		*05/19/12 09:43*	*1*

Lab Sample ID: LCS 680-237898/4
Matrix: Water
Analysis Batch: 237898

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	100	87.2		ug/L		87	26 - 180
Benzene	50.0	50.2		ug/L		100	70 - 130
Bromoform	50.0	41.5		ug/L		83	70 - 130
Bromomethane	50.0	41.5		ug/L		83	23 - 165
Carbon disulfide	50.0	47.8		ug/L		96	54 - 132
Carbon tetrachloride	50.0	47.7		ug/L		95	70 - 130
Chlorobenzene	50.0	47.7		ug/L		95	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-237898/4
Matrix: Water
Analysis Batch: 237898

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroethane	50.0	49.2		ug/L		98	56 - 152
Chloroform	50.0	50.5		ug/L		101	70 - 130
cis-1,2-Dichloroethene	50.0	50.5		ug/L		101	70 - 130
Chloromethane	50.0	58.7		ug/L		117	70 - 130
cis-1,3-Dichloropropene	50.0	53.0		ug/L		106	70 - 130
Chlorodibromomethane	50.0	43.7		ug/L		87	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	48.6		ug/L		97	70 - 130
Dichlorobromomethane	50.0	53.9		ug/L		108	70 - 130
Dibromomethane	50.0	51.6		ug/L		103	70 - 130
Dichlorodifluoromethane	50.0	49.1		ug/L		98	44 - 146
1,2-Dichloroethane	50.0	53.9		ug/L		108	70 - 130
Ethylene Dibromide	50.0	52.6		ug/L		105	70 - 130
1,1-Dichloroethane	50.0	54.9		ug/L		110	70 - 130
1,1-Dichloroethene	50.0	50.1		ug/L		100	66 - 131
1,2-Dichloropropane	50.0	53.5		ug/L		107	70 - 130
Ethylbenzene	50.0	48.7		ug/L		97	70 - 130
2-Butanone (MEK)	100	91.6		ug/L		92	49 - 172
2-Hexanone	100	94.1		ug/L		94	42 - 185
Methylene Chloride	50.0	48.3		ug/L		97	67 - 130
4-Methyl-2-pentanone (MIBK)	100	103		ug/L		103	70 - 130
Styrene	50.0	49.5		ug/L		99	70 - 130
1,1,1,2-Tetrachloroethane	50.0	47.0		ug/L		94	70 - 130
1,1,2,2-Tetrachloroethane	50.0	51.5		ug/L		103	70 - 130
Tetrachloroethene	50.0	48.9		ug/L		98	70 - 130
Toluene	50.0	53.7		ug/L		107	70 - 130
trans-1,2-Dichloroethene	50.0	51.9		ug/L		104	70 - 130
trans-1,3-Dichloropropene	50.0	45.7		ug/L		91	70 - 130
1,1,1-Trichloroethane	50.0	57.3		ug/L		115	70 - 130
1,1,2-Trichloroethane	50.0	54.2		ug/L		108	70 - 130
Trichloroethene	50.0	52.0		ug/L		104	70 - 130
Trichlorofluoromethane	50.0	53.5		ug/L		107	55 - 156
1,2,3-Trichloropropane	50.0	49.8		ug/L		100	70 - 130
Vinyl acetate	100	110		ug/L		110	60 - 176
Vinyl chloride	50.0	49.6		ug/L		99	67 - 134
Xylenes, Total	150	146		ug/L		97	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*70 - 130*
Dibromofluoromethane	*104*		*70 - 130*
Toluene-d8 (Surr)	*106*		*70 - 130*

Lab Sample ID: LCSD 680-237898/5
Matrix: Water
Analysis Batch: 237898

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	100	79.6		ug/L		80	26 - 180	9	50
Benzene	50.0	50.1		ug/L		100	70 - 130	0	30
Bromoform	50.0	40.9		ug/L		82	70 - 130	1	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-237898/5
Matrix: Water
Analysis Batch: 237898

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromomethane			50.0	44.9		ug/L		90	23 - 165	8	50
Carbon disulfide			50.0	45.8		ug/L		92	54 - 132	4	30
Carbon tetrachloride			50.0	46.5		ug/L		93	70 - 130	2	30
Chlorobenzene			50.0	47.1		ug/L		94	70 - 130	1	30
Chloroethane			50.0	51.0		ug/L		102	56 - 152	4	40
Chloroform			50.0	49.6		ug/L		99	70 - 130	2	30
cis-1,2-Dichloroethene			50.0	48.9		ug/L		98	70 - 130	3	30
Chloromethane			50.0	57.8		ug/L		116	70 - 130	2	30
cis-1,3-Dichloropropene			50.0	52.4		ug/L		105	70 - 130	1	30
Chlorodibromomethane			50.0	42.6		ug/L		85	70 - 130	3	50
1,2-Dibromo-3-Chloropropane			50.0	47.4		ug/L		95	70 - 130	2	50
Dichlorobromomethane			50.0	53.9		ug/L		108	70 - 130	0	30
Dibromomethane			50.0	50.8		ug/L		102	70 - 130	2	30
Dichlorodifluoromethane			50.0	48.4		ug/L		97	44 - 146	1	50
1,2-Dichloroethane			50.0	54.3		ug/L		109	70 - 130	1	30
Ethylene Dibromide			50.0	52.6		ug/L		105	70 - 130	0	30
1,1-Dichloroethane			50.0	52.9		ug/L		106	70 - 130	4	30
1,1-Dichloroethene			50.0	48.4		ug/L		97	66 - 131	3	30
1,2-Dichloropropane			50.0	52.6		ug/L		105	70 - 130	2	30
Ethylbenzene			50.0	48.4		ug/L		97	70 - 130	0	30
2-Butanone (MEK)			100	88.4		ug/L		88	49 - 172	4	30
2-Hexanone			100	92.7		ug/L		93	42 - 185	1	30
Methylene Chloride			50.0	46.6		ug/L		93	67 - 130	3	30
4-Methyl-2-pentanone (MIBK)			100	103		ug/L		103	70 - 130	0	30
Styrene			50.0	49.9		ug/L		100	70 - 130	1	30
1,1,1,2-Tetrachloroethane			50.0	45.7		ug/L		91	70 - 130	3	30
1,1,2,2-Tetrachloroethane			50.0	50.9		ug/L		102	70 - 130	1	30
Tetrachloroethene			50.0	47.7		ug/L		95	70 - 130	2	30
Toluene			50.0	52.2		ug/L		104	70 - 130	3	30
trans-1,2-Dichloroethene			50.0	50.4		ug/L		101	70 - 130	3	30
trans-1,3-Dichloropropene			50.0	45.6		ug/L		91	70 - 130	0	50
1,1,1-Trichloroethane			50.0	57.1		ug/L		114	70 - 130	0	30
1,1,2-Trichloroethane			50.0	53.8		ug/L		108	70 - 130	1	30
Trichloroethene			50.0	51.1		ug/L		102	70 - 130	2	30
Trichlorofluoromethane			50.0	50.3		ug/L		101	55 - 156	6	30
1,2,3-Trichloropropane			50.0	49.3		ug/L		99	70 - 130	1	30
Vinyl acetate			100	106		ug/L		106	60 - 176	4	30
Vinyl chloride			50.0	48.1		ug/L		96	67 - 134	3	30
Xylenes, Total			150	144		ug/L		96	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*70 - 130*
Dibromofluoromethane	*99*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-237899/8
Matrix: Water
Analysis Batch: 237899

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/19/12 09:57	1
Acetonitrile	40	U	40	10	ug/L			05/19/12 09:57	1
Acrolein	20	U	20	7.4	ug/L			05/19/12 09:57	1
Acrylonitrile	20	U	20	7.2	ug/L			05/19/12 09:57	1
Benzene	1.0	U	1.0	0.25	ug/L			05/19/12 09:57	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/19/12 09:57	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/19/12 09:57	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/19/12 09:57	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/19/12 09:57	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/19/12 09:57	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			05/19/12 09:57	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/19/12 09:57	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/19/12 09:57	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/19/12 09:57	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/19/12 09:57	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			05/19/12 09:57	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/19/12 09:57	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			05/19/12 09:57	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/19/12 09:57	1
Dichlorobromomethane	1.0	U	1.0	0.25	ug/L			05/19/12 09:57	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/19/12 09:57	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/19/12 09:57	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/19/12 09:57	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			05/19/12 09:57	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/19/12 09:57	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/19/12 09:57	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/19/12 09:57	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/19/12 09:57	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/19/12 09:57	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			05/19/12 09:57	1
2-Hexanone	10	U	10	1.0	ug/L			05/19/12 09:57	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/19/12 09:57	1
Isobutyl alcohol	40	U	40	11	ug/L			05/19/12 09:57	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/19/12 09:57	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/19/12 09:57	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/19/12 09:57	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/19/12 09:57	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/19/12 09:57	1
Propionitrile	20	U	20	4.6	ug/L			05/19/12 09:57	1
Styrene	1.0	U	1.0	0.11	ug/L			05/19/12 09:57	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/19/12 09:57	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/19/12 09:57	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/19/12 09:57	1
Toluene	1.0	U	1.0	0.33	ug/L			05/19/12 09:57	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/19/12 09:57	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/19/12 09:57	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/19/12 09:57	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/19/12 09:57	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/19/12 09:57	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-237899/8
Matrix: Water
Analysis Batch: 237899

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	1.0	U	1.0	0.13	ug/L			05/19/12 09:57	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/19/12 09:57	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/19/12 09:57	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/19/12 09:57	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/19/12 09:57	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/19/12 09:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*91*		*70 - 130*		*05/19/12 09:57*	*1*
Dibromofluoromethane	*107*		*70 - 130*		*05/19/12 09:57*	*1*
Toluene-d8 (Surr)	*106*		*70 - 130*		*05/19/12 09:57*	*1*

Lab Sample ID: LCS 680-237899/1
Matrix: Water
Analysis Batch: 237899

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	100	122		ug/L		122	26 - 180
Benzene	50.0	50.8		ug/L		102	70 - 130
Bromoform	50.0	42.2		ug/L		84	70 - 130
Bromomethane	50.0	60.7		ug/L		121	23 - 165
Carbon disulfide	50.0	47.1		ug/L		94	54 - 132
Carbon tetrachloride	50.0	57.7		ug/L		115	70 - 130
Chlorobenzene	50.0	49.1		ug/L		98	70 - 130
Chloroethane	50.0	46.4		ug/L		93	56 - 152
Chloroform	50.0	51.1		ug/L		102	70 - 130
cis-1,2-Dichloroethene	50.0	52.4		ug/L		105	70 - 130
Chloromethane	50.0	52.1		ug/L		104	70 - 130
cis-1,3-Dichloropropene	50.0	64.5		ug/L		129	70 - 130
Chlorodibromomethane	50.0	51.1		ug/L		102	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	47.3		ug/L		95	70 - 130
Dichlorobromomethane	50.0	56.3		ug/L		113	70 - 130
Dibromomethane	50.0	51.8		ug/L		104	70 - 130
Dichlorodifluoromethane	50.0	49.2		ug/L		98	44 - 146
1,2-Dichloroethane	50.0	55.7		ug/L		111	70 - 130
Ethylene Dibromide	50.0	52.6		ug/L		105	70 - 130
1,1-Dichloroethane	50.0	53.5		ug/L		107	70 - 130
1,1-Dichloroethene	50.0	49.7		ug/L		99	66 - 131
1,2-Dichloropropane	50.0	53.5		ug/L		107	70 - 130
Ethylbenzene	50.0	50.3		ug/L		101	70 - 130
2-Butanone (MEK)	100	111		ug/L		111	49 - 172
2-Hexanone	100	105		ug/L		105	42 - 185
Methylene Chloride	50.0	49.8		ug/L		100	67 - 130
4-Methyl-2-pentanone (MIBK)	100	104		ug/L		104	70 - 130
Styrene	50.0	51.6		ug/L		103	70 - 130
1,1,1,2-Tetrachloroethane	50.0	55.4		ug/L		111	70 - 130
1,1,2,2-Tetrachloroethane	50.0	48.2		ug/L		96	70 - 130
Tetrachloroethene	50.0	48.4		ug/L		97	70 - 130
Toluene	50.0	53.8		ug/L		108	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-237899/1
Matrix: Water
Analysis Batch: 237899

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
trans-1,2-Dichloroethene			50.0	53.3		ug/L		107	70 - 130		
trans-1,3-Dichloropropene			50.0	56.6		ug/L		113	70 - 130		
1,1,1-Trichloroethane			50.0	58.5		ug/L		117	70 - 130		
1,1,2-Trichloroethane			50.0	52.4		ug/L		105	70 - 130		
Trichloroethene			50.0	53.5		ug/L		107	70 - 130		
Trichlorofluoromethane			50.0	50.3		ug/L		101	55 - 156		
1,2,3-Trichloropropane			50.0	46.6		ug/L		93	70 - 130		
Vinyl acetate			100	117		ug/L		117	60 - 176		
Vinyl chloride			50.0	47.3		ug/L		95	67 - 134		
Xylenes, Total			150	154		ug/L		103	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*70 - 130*
Dibromofluoromethane	*109*		*70 - 130*
Toluene-d8 (Surr)	*111*		*70 - 130*

Lab Sample ID: LCSD 680-237899/2
Matrix: Water
Analysis Batch: 237899

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone			100	118		ug/L		118	26 - 180	4	50
Benzene			50.0	50.0		ug/L		100	70 - 130	1	30
Bromoform			50.0	41.5		ug/L		83	70 - 130	2	30
Bromomethane			50.0	62.0		ug/L		124	23 - 165	2	50
Carbon disulfide			50.0	45.4		ug/L		91	54 - 132	4	30
Carbon tetrachloride			50.0	57.0		ug/L		114	70 - 130	1	30
Chlorobenzene			50.0	48.0		ug/L		96	70 - 130	2	30
Chloroethane			50.0	45.8		ug/L		92	56 - 152	1	40
Chloroform			50.0	50.5		ug/L		101	70 - 130	1	30
cis-1,2-Dichloroethene			50.0	51.6		ug/L		103	70 - 130	1	30
Chloromethane			50.0	50.5		ug/L		101	70 - 130	3	30
cis-1,3-Dichloropropene			50.0	63.3		ug/L		127	70 - 130	2	30
Chlorodibromomethane			50.0	50.6		ug/L		101	70 - 130	1	50
1,2-Dibromo-3-Chloropropane			50.0	46.9		ug/L		94	70 - 130	1	50
Dichlorobromomethane			50.0	54.3		ug/L		109	70 - 130	4	30
Dibromomethane			50.0	51.0		ug/L		102	70 - 130	1	30
Dichlorodifluoromethane			50.0	47.5		ug/L		95	44 - 146	4	50
1,2-Dichloroethane			50.0	55.3		ug/L		111	70 - 130	1	30
Ethylene Dibromide			50.0	52.1		ug/L		104	70 - 130	1	30
1,1-Dichloroethane			50.0	53.1		ug/L		106	70 - 130	1	30
1,1-Dichloroethene			50.0	47.8		ug/L		96	66 - 131	4	30
1,2-Dichloropropane			50.0	52.9		ug/L		106	70 - 130	1	30
Ethylbenzene			50.0	50.4		ug/L		101	70 - 130	0	30
2-Butanone (MEK)			100	107		ug/L		107	49 - 172	3	30
2-Hexanone			100	103		ug/L		103	42 - 185	2	30
Methylene Chloride			50.0	49.1		ug/L		98	67 - 130	1	30
4-Methyl-2-pentanone (MIBK)			100	103		ug/L		103	70 - 130	1	30
Styrene			50.0	52.5		ug/L		105	70 - 130	2	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-237899/2
Matrix: Water
Analysis Batch: 237899

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane			50.0	54.3		ug/L		109	70 - 130	2	30
1,1,2,2-Tetrachloroethane			50.0	47.9		ug/L		96	70 - 130	1	30
Tetrachloroethene			50.0	47.0		ug/L		94	70 - 130	3	30
Toluene			50.0	52.7		ug/L		105	70 - 130	2	30
trans-1,2-Dichloroethene			50.0	51.9		ug/L		104	70 - 130	3	30
trans-1,3-Dichloropropene			50.0	54.7		ug/L		109	70 - 130	3	50
1,1,1-Trichloroethane			50.0	57.6		ug/L		115	70 - 130	2	30
1,1,2-Trichloroethane			50.0	51.7		ug/L		103	70 - 130	1	30
Trichloroethene			50.0	52.2		ug/L		104	70 - 130	3	30
Trichlorofluoromethane			50.0	48.2		ug/L		96	55 - 156	4	30
1,2,3-Trichloropropane			50.0	47.0		ug/L		94	70 - 130	1	30
Vinyl acetate			100	113		ug/L		113	60 - 176	3	30
Vinyl chloride			50.0	45.3		ug/L		91	67 - 134	4	30
Xylenes, Total			150	150		ug/L		100	70 - 130	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*70 - 130*
Dibromofluoromethane	*107*		*70 - 130*
Toluene-d8 (Surr)	*108*		*70 - 130*

Lab Sample ID: MB 680-237953/7
Matrix: Water
Analysis Batch: 237953

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/20/12 18:36	1
Acetonitrile	40	U	40	10	ug/L			05/20/12 18:36	1
Acrolein	20	U	20	7.4	ug/L			05/20/12 18:36	1
Acrylonitrile	20	U	20	7.2	ug/L			05/20/12 18:36	1
Benzene	1.0	U	1.0	0.25	ug/L			05/20/12 18:36	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/20/12 18:36	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/20/12 18:36	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/20/12 18:36	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/20/12 18:36	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/20/12 18:36	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			05/20/12 18:36	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/20/12 18:36	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/20/12 18:36	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/20/12 18:36	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/20/12 18:36	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			05/20/12 18:36	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/20/12 18:36	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			05/20/12 18:36	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/20/12 18:36	1
Dichlorobromomethane	1.0	U	1.0	0.25	ug/L			05/20/12 18:36	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/20/12 18:36	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/20/12 18:36	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/20/12 18:36	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			05/20/12 18:36	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-237953/7
Matrix: Water
Analysis Batch: 237953

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/20/12 18:36	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/20/12 18:36	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/20/12 18:36	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/20/12 18:36	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/20/12 18:36	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			05/20/12 18:36	1
2-Hexanone	10	U	10	1.0	ug/L			05/20/12 18:36	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/20/12 18:36	1
Isobutyl alcohol	40	U	40	11	ug/L			05/20/12 18:36	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/20/12 18:36	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/20/12 18:36	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/20/12 18:36	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/20/12 18:36	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/20/12 18:36	1
Propionitrile	20	U	20	4.6	ug/L			05/20/12 18:36	1
Styrene	1.0	U	1.0	0.11	ug/L			05/20/12 18:36	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/20/12 18:36	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/20/12 18:36	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/20/12 18:36	1
Toluene	1.0	U	1.0	0.33	ug/L			05/20/12 18:36	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/20/12 18:36	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/20/12 18:36	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/20/12 18:36	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/20/12 18:36	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/20/12 18:36	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			05/20/12 18:36	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/20/12 18:36	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/20/12 18:36	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/20/12 18:36	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/20/12 18:36	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/20/12 18:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*70 - 130*		*05/20/12 18:36*	*1*
Dibromofluoromethane	*104*		*70 - 130*		*05/20/12 18:36*	*1*
Toluene-d8 (Surr)	*107*		*70 - 130*		*05/20/12 18:36*	*1*

Lab Sample ID: LCS 680-237953/4
Matrix: Water
Analysis Batch: 237953

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	100	133		ug/L		133	26 - 180
Benzene	50.0	51.6		ug/L		103	70 - 130
Bromoform	50.0	41.6		ug/L		83	70 - 130
Bromomethane	50.0	47.2		ug/L		94	23 - 165
Carbon disulfide	50.0	47.9		ug/L		96	54 - 132
Carbon tetrachloride	50.0	58.5		ug/L		117	70 - 130
Chlorobenzene	50.0	47.8		ug/L		96	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-237953/4
Matrix: Water
Analysis Batch: 237953

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroethane	50.0	45.4		ug/L		91	56 - 152
Chloroform	50.0	51.6		ug/L		103	70 - 130
cis-1,2-Dichloroethene	50.0	52.1		ug/L		104	70 - 130
Chloromethane	50.0	53.5		ug/L		107	70 - 130
cis-1,3-Dichloropropene	50.0	64.9		ug/L		130	70 - 130
Chlorodibromomethane	50.0	51.1		ug/L		102	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	47.4		ug/L		95	70 - 130
Dichlorobromomethane	50.0	56.1		ug/L		112	70 - 130
Dibromomethane	50.0	51.8		ug/L		104	70 - 130
Dichlorodifluoromethane	50.0	50.5		ug/L		101	44 - 146
1,2-Dichloroethane	50.0	56.1		ug/L		112	70 - 130
Ethylene Dibromide	50.0	52.4		ug/L		105	70 - 130
1,1-Dichloroethane	50.0	54.0		ug/L		108	70 - 130
1,1-Dichloroethene	50.0	50.7		ug/L		101	66 - 131
1,2-Dichloropropane	50.0	53.1		ug/L		106	70 - 130
Ethylbenzene	50.0	50.1		ug/L		100	70 - 130
2-Butanone (MEK)	100	126		ug/L		126	49 - 172
2-Hexanone	100	128		ug/L		128	42 - 185
Methylene Chloride	50.0	50.3		ug/L		101	67 - 130
4-Methyl-2-pentanone (MIBK)	100	106		ug/L		106	70 - 130
Styrene	50.0	51.7		ug/L		103	70 - 130
1,1,1,2-Tetrachloroethane	50.0	54.1		ug/L		108	70 - 130
1,1,2,2-Tetrachloroethane	50.0	47.5		ug/L		95	70 - 130
Tetrachloroethene	50.0	46.8		ug/L		94	70 - 130
Toluene	50.0	54.1		ug/L		108	70 - 130
trans-1,2-Dichloroethene	50.0	54.3		ug/L		109	70 - 130
trans-1,3-Dichloropropene	50.0	57.1		ug/L		114	70 - 130
1,1,1-Trichloroethane	50.0	60.5		ug/L		121	70 - 130
1,1,2-Trichloroethane	50.0	51.7		ug/L		103	70 - 130
Trichloroethene	50.0	52.3		ug/L		105	70 - 130
Trichlorofluoromethane	50.0	46.6		ug/L		93	55 - 156
1,2,3-Trichloropropane	50.0	45.8		ug/L		92	70 - 130
Vinyl acetate	100	123		ug/L		123	60 - 176
Vinyl chloride	50.0	45.5		ug/L		91	67 - 134
Xylenes, Total	150	151		ug/L		101	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*70 - 130*
Dibromofluoromethane	*108*		*70 - 130*
Toluene-d8 (Surr)	*111*		*70 - 130*

Lab Sample ID: LCSD 680-237953/5
Matrix: Water
Analysis Batch: 237953

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	100	136		ug/L		136	26 - 180	2	50
Benzene	50.0	50.7		ug/L		101	70 - 130	2	30
Bromoform	50.0	39.6		ug/L		79	70 - 130	5	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-237953/5
Matrix: Water
Analysis Batch: 237953

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromomethane			50.0	52.1		ug/L		104	23 - 165	10	50
Carbon disulfide			50.0	47.4		ug/L		95	54 - 132	1	30
Carbon tetrachloride			50.0	58.2		ug/L		116	70 - 130	0	30
Chlorobenzene			50.0	46.0		ug/L		92	70 - 130	4	30
Chloroethane			50.0	40.7		ug/L		81	56 - 152	11	40
Chloroform			50.0	50.8		ug/L		102	70 - 130	2	30
cis-1,2-Dichloroethene			50.0	51.6		ug/L		103	70 - 130	1	30
Chloromethane			50.0	51.8		ug/L		104	70 - 130	3	30
cis-1,3-Dichloropropene			50.0	62.8		ug/L		126	70 - 130	3	30
Chlorodibromomethane			50.0	48.8		ug/L		98	70 - 130	5	50
1,2-Dibromo-3-Chloropropane			50.0	44.7		ug/L		89	70 - 130	6	50
Dichlorobromomethane			50.0	55.0		ug/L		110	70 - 130	2	30
Dibromomethane			50.0	51.2		ug/L		102	70 - 130	1	30
Dichlorodifluoromethane			50.0	51.7		ug/L		103	44 - 146	2	50
1,2-Dichloroethane			50.0	55.2		ug/L		110	70 - 130	2	30
Ethylene Dibromide			50.0	51.5		ug/L		103	70 - 130	2	30
1,1-Dichloroethane			50.0	53.5		ug/L		107	70 - 130	1	30
1,1-Dichloroethene			50.0	49.0		ug/L		98	66 - 131	3	30
1,2-Dichloropropane			50.0	51.1		ug/L		102	70 - 130	4	30
Ethylbenzene			50.0	48.4		ug/L		97	70 - 130	3	30
2-Butanone (MEK)			100	124		ug/L		124	49 - 172	2	30
2-Hexanone			100	123		ug/L		123	42 - 185	4	30
Methylene Chloride			50.0	48.6		ug/L		97	67 - 130	3	30
4-Methyl-2-pentanone (MIBK)			100	105		ug/L		105	70 - 130	1	30
Styrene			50.0	49.6		ug/L		99	70 - 130	4	30
1,1,1,2-Tetrachloroethane			50.0	51.7		ug/L		103	70 - 130	4	30
1,1,2,2-Tetrachloroethane			50.0	47.4		ug/L		95	70 - 130	0	30
Tetrachloroethene			50.0	47.0		ug/L		94	70 - 130	0	30
Toluene			50.0	53.0		ug/L		106	70 - 130	2	30
trans-1,2-Dichloroethene			50.0	54.0		ug/L		108	70 - 130	0	30
trans-1,3-Dichloropropene			50.0	54.2		ug/L		108	70 - 130	5	50
1,1,1-Trichloroethane			50.0	59.9		ug/L		120	70 - 130	1	30
1,1,2-Trichloroethane			50.0	51.0		ug/L		102	70 - 130	1	30
Trichloroethene			50.0	51.3		ug/L		103	70 - 130	2	30
Trichlorofluoromethane			50.0	45.8		ug/L		92	55 - 156	2	30
1,2,3-Trichloropropane			50.0	44.6		ug/L		89	70 - 130	3	30
Vinyl acetate			100	116		ug/L		116	60 - 176	6	30
Vinyl chloride			50.0	44.5		ug/L		89	67 - 134	2	30
Xylenes, Total			150	146		ug/L		97	70 - 130	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*98*		*70 - 130*
Dibromofluoromethane	*107*		*70 - 130*
Toluene-d8 (Surr)	*110*		*70 - 130*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-238122/7
Matrix: Waste
Analysis Batch: 238122

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2000	U	2000	2000	ug/Kg			05/22/12 11:43	40
Acetonitrile	8000	U	8000	8000	ug/Kg			05/22/12 11:43	40
Acrolein	4000	U	4000	4000	ug/Kg			05/22/12 11:43	40
Acrylonitrile	4000	U	4000	4000	ug/Kg			05/22/12 11:43	40
Benzene	200	U	200	200	ug/Kg			05/22/12 11:43	40
Bromoform	200	U	200	200	ug/Kg			05/22/12 11:43	40
Bromomethane	200	U	200	200	ug/Kg			05/22/12 11:43	40
Carbon disulfide	200	U	200	200	ug/Kg			05/22/12 11:43	40
Carbon tetrachloride	200	U	200	200	ug/Kg			05/22/12 11:43	40
Chlorobenzene	200	U	200	200	ug/Kg			05/22/12 11:43	40
Allyl chloride	200	U	200	200	ug/Kg			05/22/12 11:43	40
Chloroethane	200	U	200	200	ug/Kg			05/22/12 11:43	40
Chloroform	200	U	200	200	ug/Kg			05/22/12 11:43	40
Chloromethane	200	U	200	200	ug/Kg			05/22/12 11:43	40
Chloroprene	200	U	200	200	ug/Kg			05/22/12 11:43	40
cis-1,3-Dichloropropene	200	U	200	200	ug/Kg			05/22/12 11:43	40
Dibromochloromethane	200	U	200	200	ug/Kg			05/22/12 11:43	40
1,2-Dibromo-3-Chloropropane	400	U	400	400	ug/Kg			05/22/12 11:43	40
Bromodichloromethane	200	U	200	200	ug/Kg			05/22/12 11:43	40
Dibromomethane	200	U	200	200	ug/Kg			05/22/12 11:43	40
1,4-Dichlorobenzene	200	U	200	200	ug/Kg			05/22/12 11:43	40
1,3-Dichlorobenzene	200	U	200	200	ug/Kg			05/22/12 11:43	40
1,2-Dichlorobenzene	200	U	200	200	ug/Kg			05/22/12 11:43	40
Dichlorodifluoromethane	200	U	200	200	ug/Kg			05/22/12 11:43	40
1,2-Dibromoethane	200	U	200	200	ug/Kg			05/22/12 11:43	40
1,2-Dichloroethane	200	U	200	200	ug/Kg			05/22/12 11:43	40
1,1-Dichloroethane	200	U	200	200	ug/Kg			05/22/12 11:43	40
1,1-Dichloroethene	200	U	200	200	ug/Kg			05/22/12 11:43	40
1,2-Dichloropropane	200	U	200	200	ug/Kg			05/22/12 11:43	40
1,4-Dioxane	2000	U	2000	2000	ug/Kg			05/22/12 11:43	40
Ethylbenzene	200	U	200	200	ug/Kg			05/22/12 11:43	40
Ethyl methacrylate	200	U	200	200	ug/Kg			05/22/12 11:43	40
2-Butanone	1000	U	1000	1000	ug/Kg			05/22/12 11:43	40
2-Hexanone	1000	U	1000	1000	ug/Kg			05/22/12 11:43	40
Iodomethane	200	U	200	200	ug/Kg			05/22/12 11:43	40
Isobutanol	8000	U	8000	8000	ug/Kg			05/22/12 11:43	40
Methacrylonitrile	4000	U	4000	4000	ug/Kg			05/22/12 11:43	40
Methylene Chloride	200	U	200	200	ug/Kg			05/22/12 11:43	40
Methyl methacrylate	400	U	400	400	ug/Kg			05/22/12 11:43	40
4-Methyl-2-pentanone	1000	U	1000	1000	ug/Kg			05/22/12 11:43	40
Pentachloroethane	1000	U	1000	1000	ug/Kg			05/22/12 11:43	40
Propionitrile	4000	U	4000	4000	ug/Kg			05/22/12 11:43	40
Styrene	200	U	200	200	ug/Kg			05/22/12 11:43	40
1,1,1,2-Tetrachloroethane	200	U	200	200	ug/Kg			05/22/12 11:43	40
1,1,2,2-Tetrachloroethane	200	U	200	200	ug/Kg			05/22/12 11:43	40
Tetrachloroethene	200	U	200	200	ug/Kg			05/22/12 11:43	40
Toluene	200	U	200	200	ug/Kg			05/22/12 11:43	40
trans-1,4-Dichloro-2-butene	400	U	400	400	ug/Kg			05/22/12 11:43	40
trans-1,2-Dichloroethene	200	U	200	200	ug/Kg			05/22/12 11:43	40

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-238122/7
Matrix: Waste
Analysis Batch: 238122

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	200	U	200	200	ug/Kg			05/22/12 11:43	40
1,2,4-Trichlorobenzene	200	U	200	200	ug/Kg			05/22/12 11:43	40
1,1,1-Trichloroethane	200	U	200	200	ug/Kg			05/22/12 11:43	40
1,1,2-Trichloroethane	200	U	200	200	ug/Kg			05/22/12 11:43	40
Trichloroethene	200	U	200	200	ug/Kg			05/22/12 11:43	40
Trichlorofluoromethane	200	U	200	200	ug/Kg			05/22/12 11:43	40
1,2,3-Trichloropropane	200	U	200	200	ug/Kg			05/22/12 11:43	40
Vinyl acetate	400	U	400	400	ug/Kg			05/22/12 11:43	40
Vinyl chloride	200	U	200	200	ug/Kg			05/22/12 11:43	40
Xylenes, Total	400	U	400	400	ug/Kg			05/22/12 11:43	40

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*30 - 130*		*05/22/12 11:43*	*40*
Dibromofluoromethane	*109*		*30 - 130*		*05/22/12 11:43*	*40*
Toluene-d8 (Surr)	*100*		*30 - 130*		*05/22/12 11:43*	*40*

Lab Sample ID: LCSD 680-238122/5
Matrix: Waste
Analysis Batch: 238122

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	5000	5250		ug/Kg		105	30 - 130	1	50
Benzene	2500	2300		ug/Kg		92	30 - 130	1	50
Bromoform	2500	2380		ug/Kg		95	30 - 130	1	50
Bromomethane	2500	2030		ug/Kg		81	30 - 130	0	50
Carbon disulfide	2500	2390		ug/Kg		96	30 - 130	1	50
Carbon tetrachloride	2500	2340		ug/Kg		94	30 - 130	1	50
Chlorobenzene	2500	2540		ug/Kg		102	30 - 130	1	50
Chloroethane	2500	534	*	ug/Kg		21	30 - 130	1	50
Chloroform	2500	2660		ug/Kg		107	30 - 130	1	50
Chloromethane	2500	1740		ug/Kg		70	30 - 130	3	50
cis-1,3-Dichloropropene	2500	2270		ug/Kg		91	30 - 130	2	50
Dibromochloromethane	2500	2490		ug/Kg		100	30 - 130	0	50
1,2-Dibromo-3-Chloropropane	2500	2100		ug/Kg		84	30 - 130	3	50
Bromodichloromethane	2500	2220		ug/Kg		89	30 - 130	1	50
Dibromomethane	2500	2170		ug/Kg		87	30 - 130	3	50
1,4-Dichlorobenzene	2500	2430		ug/Kg		97	30 - 130	1	50
1,3-Dichlorobenzene	2500	2460		ug/Kg		99	30 - 130	0	50
1,2-Dichlorobenzene	2500	2440		ug/Kg		98	30 - 130	0	50
Dichlorodifluoromethane	2500	1670		ug/Kg		67	30 - 130	3	50
1,2-Dibromoethane	2500	2260		ug/Kg		90	30 - 130	0	50
1,2-Dichloroethane	2500	2080		ug/Kg		83	30 - 130	1	50
1,1-Dichloroethane	2500	2630		ug/Kg		105	30 - 130	1	50
1,1-Dichloroethene	2500	2580		ug/Kg		103	30 - 130	2	50
1,2-Dichloropropane	2500	2230		ug/Kg		89	30 - 130	2	50
Ethylbenzene	2500	2520		ug/Kg		101	30 - 130	1	50
2-Butanone	5000	4340		ug/Kg		87	30 - 130	1	50
2-Hexanone	5000	3690		ug/Kg		74	30 - 130	2	50
Methylene Chloride	2500	2530		ug/Kg		101	30 - 130	3	50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-238122/5
Matrix: Waste
Analysis Batch: 238122

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4-Methyl-2-pentanone			5000	3470		ug/Kg		69	30 - 130	0	50
Styrene			2500	2520		ug/Kg		101	30 - 130	0	50
1,1,1,2-Tetrachloroethane			2500	2560		ug/Kg		102	30 - 130	2	50
1,1,2,2-Tetrachloroethane			2500	2060		ug/Kg		82	30 - 130	3	50
Tetrachloroethene			2500	2730		ug/Kg		109	30 - 130	1	50
Toluene			2500	2350		ug/Kg		94	30 - 130	2	50
trans-1,2-Dichloroethene			2500	2750		ug/Kg		110	30 - 130	0	50
trans-1,3-Dichloropropene			2500	2180		ug/Kg		87	30 - 130	1	50
1,2,4-Trichlorobenzene			2500	2580		ug/Kg		103	30 - 130	2	50
1,1,1-Trichloroethane			2500	2290		ug/Kg		92	30 - 130	2	50
1,1,2-Trichloroethane			2500	2140		ug/Kg		86	30 - 130	2	50
Trichloroethene			2500	2460		ug/Kg		98	30 - 130	0	50
Trichlorofluoromethane			2500	2090		ug/Kg		84	30 - 130	1	50
1,2,3-Trichloropropane			2500	2220		ug/Kg		89	30 - 130	1	50
Vinyl acetate			5000	4310		ug/Kg		86	30 - 130	1	50
Vinyl chloride			2500	2420		ug/Kg		97	30 - 130	0	50
Xylenes, Total			7500	7780		ug/Kg		104	30 - 130	1	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*94*		*30 - 130*
Dibromofluoromethane	*112*		*30 - 130*
Toluene-d8 (Surr)	*96*		*30 - 130*

Lab Sample ID: MB 680-238266/7
Matrix: Water
Analysis Batch: 238266

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/23/12 12:19	1
Acetonitrile	40	U	40	10	ug/L			05/23/12 12:19	1
Acrolein	20	U	20	7.4	ug/L			05/23/12 12:19	1
Acrylonitrile	20	U	20	7.2	ug/L			05/23/12 12:19	1
Benzene	1.0	U	1.0	0.25	ug/L			05/23/12 12:19	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/23/12 12:19	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/23/12 12:19	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/23/12 12:19	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/23/12 12:19	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/23/12 12:19	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			05/23/12 12:19	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/23/12 12:19	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/23/12 12:19	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/23/12 12:19	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/23/12 12:19	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			05/23/12 12:19	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/23/12 12:19	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			05/23/12 12:19	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/23/12 12:19	1
Dichlorobromomethane	1.0	U	1.0	0.25	ug/L			05/23/12 12:19	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/23/12 12:19	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-238266/7
Matrix: Water
Analysis Batch: 238266

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/23/12 12:19	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/23/12 12:19	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			05/23/12 12:19	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/23/12 12:19	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/23/12 12:19	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/23/12 12:19	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/23/12 12:19	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/23/12 12:19	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			05/23/12 12:19	1
2-Hexanone	10	U	10	1.0	ug/L			05/23/12 12:19	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/23/12 12:19	1
Isobutyl alcohol	40	U	40	11	ug/L			05/23/12 12:19	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/23/12 12:19	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/23/12 12:19	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/23/12 12:19	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/23/12 12:19	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/23/12 12:19	1
Propionitrile	20	U	20	4.6	ug/L			05/23/12 12:19	1
Styrene	1.0	U	1.0	0.11	ug/L			05/23/12 12:19	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/23/12 12:19	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/23/12 12:19	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/23/12 12:19	1
Toluene	1.0	U	1.0	0.33	ug/L			05/23/12 12:19	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/23/12 12:19	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/23/12 12:19	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/23/12 12:19	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/23/12 12:19	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/23/12 12:19	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			05/23/12 12:19	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/23/12 12:19	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/23/12 12:19	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/23/12 12:19	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/23/12 12:19	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/23/12 12:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*70 - 130*		*05/23/12 12:19*	*1*
Dibromofluoromethane	*108*		*70 - 130*		*05/23/12 12:19*	*1*
Toluene-d8 (Surr)	*106*		*70 - 130*		*05/23/12 12:19*	*1*

Lab Sample ID: LCS 680-238266/4
Matrix: Water
Analysis Batch: 238266

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	100	120		ug/L		120	26 - 180
Benzene	50.0	49.4		ug/L		99	70 - 130
Bromoform	50.0	41.9		ug/L		84	70 - 130
Bromomethane	50.0	36.5		ug/L		73	23 - 165

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-238266/4
Matrix: Water
Analysis Batch: 238266

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon disulfide	50.0	46.3		ug/L		93	54 - 132
Carbon tetrachloride	50.0	56.4		ug/L		113	70 - 130
Chlorobenzene	50.0	50.0		ug/L		100	70 - 130
Chloroethane	50.0	48.3		ug/L		97	56 - 152
Chloroform	50.0	48.2		ug/L		96	70 - 130
cis-1,2-Dichloroethene	50.0	50.3		ug/L		101	70 - 130
Chloromethane	50.0	52.3		ug/L		105	70 - 130
cis-1,3-Dichloropropene	50.0	61.0		ug/L		122	70 - 130
Chlorodibromomethane	50.0	52.6		ug/L		105	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	47.9		ug/L		96	70 - 130
Dichlorobromomethane	50.0	53.6		ug/L		107	70 - 130
Dibromomethane	50.0	50.5		ug/L		101	70 - 130
Dichlorodifluoromethane	50.0	48.6		ug/L		97	44 - 146
1,2-Dichloroethane	50.0	54.5		ug/L		109	70 - 130
Ethylene Dibromide	50.0	49.7		ug/L		99	70 - 130
1,1-Dichloroethane	50.0	51.7		ug/L		103	70 - 130
1,1-Dichloroethene	50.0	50.2		ug/L		100	66 - 131
1,2-Dichloropropane	50.0	51.6		ug/L		103	70 - 130
Ethylbenzene	50.0	51.2		ug/L		102	70 - 130
2-Butanone (MEK)	100	110		ug/L		110	49 - 172
2-Hexanone	100	124		ug/L		124	42 - 185
Methylene Chloride	50.0	47.7		ug/L		95	67 - 130
4-Methyl-2-pentanone (MIBK)	100	96.3		ug/L		96	70 - 130
Styrene	50.0	53.3		ug/L		107	70 - 130
1,1,1,2-Tetrachloroethane	50.0	56.5		ug/L		113	70 - 130
1,1,2,2-Tetrachloroethane	50.0	47.8		ug/L		96	70 - 130
Tetrachloroethene	50.0	49.9		ug/L		100	70 - 130
Toluene	50.0	50.7		ug/L		101	70 - 130
trans-1,2-Dichloroethene	50.0	52.1		ug/L		104	70 - 130
trans-1,3-Dichloropropene	50.0	53.3		ug/L		107	70 - 130
1,1,1-Trichloroethane	50.0	57.1		ug/L		114	70 - 130
1,1,2-Trichloroethane	50.0	50.0		ug/L		100	70 - 130
Trichloroethene	50.0	50.5		ug/L		101	70 - 130
Trichlorofluoromethane	50.0	51.0		ug/L		102	55 - 156
1,2,3-Trichloropropane	50.0	47.1		ug/L		94	70 - 130
Vinyl acetate	100	116		ug/L		116	60 - 176
Vinyl chloride	50.0	46.8		ug/L		94	67 - 134
Xylenes, Total	150	159		ug/L		106	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*104*		*70 - 130*
Dibromofluoromethane	*104*		*70 - 130*
Toluene-d8 (Surr)	*105*		*70 - 130*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-238266/5
Matrix: Water
Analysis Batch: 238266

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	100	108		ug/L		108	26 - 180	11	50
Benzene	50.0	49.5		ug/L		99	70 - 130	0	30
Bromoform	50.0	42.1		ug/L		84	70 - 130	0	30
Bromomethane	50.0	52.4		ug/L		105	23 - 165	36	50
Carbon disulfide	50.0	45.5		ug/L		91	54 - 132	2	30
Carbon tetrachloride	50.0	56.6		ug/L		113	70 - 130	0	30
Chlorobenzene	50.0	49.6		ug/L		99	70 - 130	1	30
Chloroethane	50.0	45.8		ug/L		92	56 - 152	5	40
Chloroform	50.0	48.0		ug/L		96	70 - 130	0	30
cis-1,2-Dichloroethene	50.0	48.6		ug/L		97	70 - 130	3	30
Chloromethane	50.0	51.5		ug/L		103	70 - 130	2	30
cis-1,3-Dichloropropene	50.0	61.6		ug/L		123	70 - 130	1	30
Chlorodibromomethane	50.0	52.6		ug/L		105	70 - 130	0	50
1,2-Dibromo-3-Chloropropane	50.0	46.3		ug/L		93	70 - 130	3	50
Dichlorobromomethane	50.0	53.3		ug/L		107	70 - 130	1	30
Dibromomethane	50.0	49.6		ug/L		99	70 - 130	2	30
Dichlorodifluoromethane	50.0	47.6		ug/L		95	44 - 146	2	50
1,2-Dichloroethane	50.0	53.9		ug/L		108	70 - 130	1	30
Ethylene Dibromide	50.0	49.9		ug/L		100	70 - 130	0	30
1,1-Dichloroethane	50.0	50.7		ug/L		101	70 - 130	2	30
1,1-Dichloroethene	50.0	48.6		ug/L		97	66 - 131	3	30
1,2-Dichloropropane	50.0	50.9		ug/L		102	70 - 130	1	30
Ethylbenzene	50.0	51.8		ug/L		104	70 - 130	1	30
2-Butanone (MEK)	100	105		ug/L		105	49 - 172	5	30
2-Hexanone	100	122		ug/L		122	42 - 185	2	30
Methylene Chloride	50.0	47.2		ug/L		94	67 - 130	1	30
4-Methyl-2-pentanone (MIBK)	100	96.3		ug/L		96	70 - 130	0	30
Styrene	50.0	53.2		ug/L		106	70 - 130	0	30
1,1,1,2-Tetrachloroethane	50.0	55.8		ug/L		112	70 - 130	1	30
1,1,2,2-Tetrachloroethane	50.0	48.2		ug/L		96	70 - 130	1	30
Tetrachloroethene	50.0	50.8		ug/L		102	70 - 130	2	30
Toluene	50.0	53.0		ug/L		106	70 - 130	4	30
trans-1,2-Dichloroethene	50.0	50.1		ug/L		100	70 - 130	4	30
trans-1,3-Dichloropropene	50.0	54.0		ug/L		108	70 - 130	1	50
1,1,1-Trichloroethane	50.0	58.8		ug/L		118	70 - 130	3	30
1,1,2-Trichloroethane	50.0	48.9		ug/L		98	70 - 130	2	30
Trichloroethene	50.0	51.0		ug/L		102	70 - 130	1	30
Trichlorofluoromethane	50.0	49.2		ug/L		98	55 - 156	4	30
1,2,3-Trichloropropane	50.0	46.4		ug/L		93	70 - 130	1	30
Vinyl acetate	100	112		ug/L		112	60 - 176	3	30
Vinyl chloride	50.0	44.2		ug/L		88	67 - 134	6	30
Xylenes, Total	150	159		ug/L		106	70 - 130	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*104*		*70 - 130*
Dibromofluoromethane	*100*		*70 - 130*
Toluene-d8 (Surr)	*107*		*70 - 130*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 680-79571-9 MS
Matrix: Water
Analysis Batch: 238266

Client Sample ID: Dup-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	25	U	100	164		ug/L		164	26 - 180
Benzene	4.4		50.0	51.9		ug/L		95	70 - 130
Bromoform	1.0	U	50.0	48.8		ug/L		98	70 - 130
Bromomethane	1.0	U	50.0	52.9		ug/L		106	23 - 165
Carbon disulfide	2.0	U	50.0	47.7		ug/L		95	54 - 132
Carbon tetrachloride	1.0	U	50.0	58.4		ug/L		117	70 - 130
Chlorobenzene	0.45	J	50.0	50.2		ug/L		99	70 - 130
Chlorodibromomethane	1.0	U	50.0	56.1		ug/L		112	70 - 130
Chloroethane	1.0	U	50.0	50.6		ug/L		101	56 - 152
Chloroform	0.30	J	50.0	51.5		ug/L		102	70 - 130
Chloromethane	1.0	U	50.0	39.4		ug/L		79	70 - 130
cis-1,2-Dichloroethene	1.0	U	50.0	51.2		ug/L		102	70 - 130
cis-1,3-Dichloropropene	1.0	U	50.0	53.1		ug/L		106	70 - 130
1,2-Dibromo-3-Chloropropane	1.0	U	50.0	73.0	F	ug/L		146	70 - 130
Dibromomethane	1.0	U	50.0	51.2		ug/L		102	70 - 130
Dichlorobromomethane	1.0	U	50.0	51.8		ug/L		104	70 - 130
Dichlorodifluoromethane	1.0	U	50.0	51.5		ug/L		103	44 - 146
1,1-Dichloroethane	1.0	U	50.0	50.9		ug/L		102	70 - 130
1,2-Dichloroethane	1.0	U	50.0	51.4		ug/L		103	70 - 130
1,1-Dichloroethene	1.0	U	50.0	54.4		ug/L		109	66 - 131
1,2-Dichloropropane	1.0	U	50.0	50.3		ug/L		101	70 - 130
Ethylbenzene	0.12	J	50.0	51.9		ug/L		104	70 - 130
Ethylene Dibromide	1.0	U	50.0	51.8		ug/L		104	70 - 130
2-Hexanone	10	U	100	141		ug/L		141	42 - 185
Methylene Chloride	5.0	U	50.0	49.4		ug/L		99	67 - 130
2-Butanone (MEK)	10	U	100	148		ug/L		148	49 - 172
4-Methyl-2-pentanone (MIBK)	10	U	100	133	F	ug/L		133	70 - 130
Styrene	1.0	U	50.0	51.8		ug/L		104	70 - 130
1,1,1,2-Tetrachloroethane	1.0	U	50.0	54.3		ug/L		109	70 - 130
1,1,2,2-Tetrachloroethane	1.0	U	50.0	58.1		ug/L		116	70 - 130
Tetrachloroethene	1.0	U	50.0	51.9		ug/L		104	70 - 130
Toluene	1.0	U	50.0	52.5		ug/L		105	70 - 130
trans-1,2-Dichloroethene	1.0	U	50.0	53.6		ug/L		107	70 - 130
trans-1,3-Dichloropropene	1.0	U	50.0	52.1		ug/L		104	70 - 130
1,1,1-Trichloroethane	1.0	U	50.0	55.3		ug/L		111	70 - 130
1,1,2-Trichloroethane	1.0	U	50.0	50.0		ug/L		100	70 - 130
Trichloroethene	1.0	U	50.0	52.2		ug/L		104	70 - 130
Trichlorofluoromethane	1.0	U	50.0	57.5		ug/L		115	55 - 156
1,2,3-Trichloropropane	1.0	U	50.0	58.0		ug/L		116	70 - 130
Vinyl acetate	2.0	U	100	102		ug/L		102	60 - 176
Vinyl chloride	1.0	U	50.0	50.9		ug/L		102	67 - 134
Xylenes, Total	1.4	J	150	156		ug/L		103	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*97*		*70 - 130*
Dibromofluoromethane	*104*		*70 - 130*
Toluene-d8 (Surr)	*106*		*70 - 130*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 680-79571-9 MSD
Matrix: Water
Analysis Batch: 238266

Client Sample ID: Dup-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	25	U	100	96.7	F	ug/L		97	26 - 180	51	50
Benzene	4.4		50.0	57.8		ug/L		107	70 - 130	11	30
Bromoform	1.0	U	50.0	45.1		ug/L		90	70 - 130	8	30
Bromomethane	1.0	U	50.0	99.1	F	ug/L		198	23 - 165	61	50
Carbon disulfide	2.0	U	50.0	51.7		ug/L		103	54 - 132	8	30
Carbon tetrachloride	1.0	U	50.0	62.3		ug/L		125	70 - 130	6	30
Chlorobenzene	0.45	J	50.0	51.9		ug/L		103	70 - 130	3	30
Chlorodibromomethane	1.0	U	50.0	55.2		ug/L		110	70 - 130	2	50
Chloroethane	1.0	U	50.0	72.6		ug/L		145	56 - 152	36	40
Chloroform	0.30	J	50.0	54.1		ug/L		108	70 - 130	5	30
Chloromethane	1.0	U	50.0	47.1		ug/L		94	70 - 130	18	30
cis-1,2-Dichloroethene	1.0	U	50.0	53.0		ug/L		106	70 - 130	4	30
cis-1,3-Dichloropropene	1.0	U	50.0	55.9		ug/L		112	70 - 130	5	30
1,2-Dibromo-3-Chloropropane	1.0	U	50.0	50.3		ug/L		101	70 - 130	37	50
Dibromomethane	1.0	U	50.0	51.0		ug/L		102	70 - 130	0	30
Dichlorobromomethane	1.0	U	50.0	56.8		ug/L		114	70 - 130	9	30
Dichlorodifluoromethane	1.0	U	50.0	55.2		ug/L		110	44 - 146	7	50
1,1-Dichloroethane	1.0	U	50.0	53.7		ug/L		107	70 - 130	5	30
1,2-Dichloroethane	1.0	U	50.0	52.3		ug/L		105	70 - 130	2	30
1,1-Dichloroethene	1.0	U	50.0	57.6		ug/L		115	66 - 131	6	30
1,2-Dichloropropane	1.0	U	50.0	52.6		ug/L		105	70 - 130	4	30
Ethylbenzene	0.12	J	50.0	53.7		ug/L		107	70 - 130	3	30
Ethylene Dibromide	1.0	U	50.0	48.8		ug/L		98	70 - 130	6	30
2-Hexanone	10	U	100	95.0	F	ug/L		95	42 - 185	39	30
Methylene Chloride	5.0	U	50.0	52.3		ug/L		105	67 - 130	6	30
2-Butanone (MEK)	10	U	100	93.3	F	ug/L		93	49 - 172	45	30
4-Methyl-2-pentanone (MIBK)	10	U	100	96.8	F	ug/L		97	70 - 130	31	30
Styrene	1.0	U	50.0	53.4		ug/L		107	70 - 130	3	30
1,1,1,2-Tetrachloroethane	1.0	U	50.0	55.7		ug/L		111	70 - 130	3	30
1,1,2,2-Tetrachloroethane	1.0	U	50.0	48.5		ug/L		97	70 - 130	18	30
Tetrachloroethene	1.0	U	50.0	52.7		ug/L		105	70 - 130	1	30
Toluene	1.0	U	50.0	53.8		ug/L		108	70 - 130	2	30
trans-1,2-Dichloroethene	1.0	U	50.0	56.2		ug/L		112	70 - 130	5	30
trans-1,3-Dichloropropene	1.0	U	50.0	55.6		ug/L		111	70 - 130	6	50
1,1,1-Trichloroethane	1.0	U	50.0	58.6		ug/L		117	70 - 130	6	30
1,1,2-Trichloroethane	1.0	U	50.0	49.7		ug/L		99	70 - 130	1	30
Trichloroethene	1.0	U	50.0	53.2		ug/L		106	70 - 130	2	30
Trichlorofluoromethane	1.0	U	50.0	63.2		ug/L		126	55 - 156	10	30
1,2,3-Trichloropropane	1.0	U	50.0	46.9		ug/L		94	70 - 130	21	30
Vinyl acetate	2.0	U	100	92.0		ug/L		92	60 - 176	10	30
Vinyl chloride	1.0	U	50.0	55.0		ug/L		110	67 - 134	8	30
Xylenes, Total	1.4	J	150	164		ug/L		108	70 - 130	5	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*102*		*70 - 130*
Dibromofluoromethane	*108*		*70 - 130*
Toluene-d8 (Surr)	*109*		*70 - 130*

Method: 8081A_8082 - Organochlorine Pesticides & PCBs (GC)

Lab Sample ID: MB 680-237769/17-A
Matrix: Water
Analysis Batch: 238224

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 237769

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene, Technical	5.0	U	5.0	0.50	ug/L		05/18/12 15:41	05/22/12 17:49	1
Toxaphene, TAUC, Parlar 11-69	5.0	U	5.0	0.50	ug/L		05/18/12 15:41	05/22/12 17:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*19*	*X*	*40 - 130*	*05/18/12 15:41*	*05/22/12 17:49*	*1*
DCB Decachlorobiphenyl	*20*	*X*	*40 - 130*	*05/18/12 15:41*	*05/22/12 17:49*	*1*
Tetrachloro-m-xylene	*66*		*36 - 130*	*05/18/12 15:41*	*05/22/12 17:49*	*1*
Tetrachloro-m-xylene	*74*		*36 - 130*	*05/18/12 15:41*	*05/22/12 17:49*	*1*

Lab Sample ID: LCS 680-237769/21-A
Matrix: Water
Analysis Batch: 238224

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 237769

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Toxaphene, Technical			10.0	12.5		ug/L		125	35 - 138		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*35*	*X*	*40 - 130*
DCB Decachlorobiphenyl	*32*	*X*	*40 - 130*
Tetrachloro-m-xylene	*85*		*36 - 130*
Tetrachloro-m-xylene	*76*		*36 - 130*

Lab Sample ID: 680-79571-9 MS
Matrix: Water
Analysis Batch: 238799

Client Sample ID: Dup-1
Prep Type: Total/NA
Prep Batch: 237769

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Toxaphene, Technical	5.0	U	9.76	15.1	F	ug/L		154	35 - 138		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*49*		*40 - 130*
DCB Decachlorobiphenyl	*21*	*p X*	*40 - 130*
Tetrachloro-m-xylene	*65*		*36 - 130*
Tetrachloro-m-xylene	*86*		*36 - 130*

Lab Sample ID: 680-79571-9 MSD
Matrix: Water
Analysis Batch: 238799

Client Sample ID: Dup-1
Prep Type: Total/NA
Prep Batch: 237769

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toxaphene, Technical	5.0	U	9.99	14.8	F	ug/L		148	35 - 138	2	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*66*		*40 - 130*
DCB Decachlorobiphenyl	*21*	*p X*	*40 - 130*
Tetrachloro-m-xylene	*52*		*36 - 130*
Tetrachloro-m-xylene	*76*		*36 - 130*

Method: 8081A_8082 - Organochlorine Pesticides & PCBs (GC) (Continued)

Lab Sample ID: MB 680-238605/17-A
Matrix: Water
Analysis Batch: 239361

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 238605

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene, Technical	5.0	U	5.0	0.50	ug/L		05/28/12 15:21	05/31/12 19:26	1
Toxaphene, TAUC, Parlar 11-69	5.0	U	5.0	0.50	ug/L		05/28/12 15:21	05/31/12 19:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*57*		*40 - 130*	*05/28/12 15:21*	*05/31/12 19:26*	*1*
DCB Decachlorobiphenyl	*52*		*40 - 130*	*05/28/12 15:21*	*05/31/12 19:26*	*1*
Tetrachloro-m-xylene	*82*		*36 - 130*	*05/28/12 15:21*	*05/31/12 19:26*	*1*
Tetrachloro-m-xylene	*82*		*36 - 130*	*05/28/12 15:21*	*05/31/12 19:26*	*1*

Lab Sample ID: LCS 680-238605/18-A
Matrix: Water
Analysis Batch: 239361

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 238605

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Toxaphene, Technical			10.0	8.80		ug/L		88	35 - 138		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*46*		*40 - 130*
DCB Decachlorobiphenyl	*41*		*40 - 130*
Tetrachloro-m-xylene	*77*		*36 - 130*
Tetrachloro-m-xylene	*72*		*36 - 130*

Lab Sample ID: LCSD 680-238605/19-A
Matrix: Water
Analysis Batch: 239361

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 238605

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toxaphene, Technical			10.0	10.5		ug/L		105	35 - 138	17	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*55*		*40 - 130*
DCB Decachlorobiphenyl	*49*		*40 - 130*
Tetrachloro-m-xylene	*87*		*36 - 130*
Tetrachloro-m-xylene	*85*		*36 - 130*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 680-238027/1-A
Matrix: Water
Analysis Batch: 238198

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 238027

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.020	U	0.020	0.0052	mg/L		05/21/12 17:58	05/23/12 00:45	1
Arsenic	0.020	U	0.020	0.010	mg/L		05/21/12 17:58	05/23/12 00:45	1
Barium	0.010	U	0.010	0.0020	mg/L		05/21/12 17:58	05/23/12 00:45	1
Beryllium	0.0040	U	0.0040	0.00010	mg/L		05/21/12 17:58	05/23/12 00:45	1
Cadmium	0.0050	U	0.0050	0.0020	mg/L		05/21/12 17:58	05/23/12 00:45	1
Chromium	0.010	U	0.010	0.0020	mg/L		05/21/12 17:58	05/23/12 00:45	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 680-238027/1-A
Matrix: Water
Analysis Batch: 238198

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 238027

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	0.010	U	0.010	0.0010	mg/L		05/21/12 17:58	05/23/12 00:45	1
Copper	0.020	U	0.020	0.0050	mg/L		05/21/12 17:58	05/23/12 00:45	1
Lead	0.010	U	0.010	0.0034	mg/L		05/21/12 17:58	05/23/12 00:45	1
Nickel	0.040	U	0.040	0.0040	mg/L		05/21/12 17:58	05/23/12 00:45	1
Selenium	0.020	U	0.020	0.0064	mg/L		05/21/12 17:58	05/23/12 00:45	1
Silver	0.010	U	0.010	0.00097	mg/L		05/21/12 17:58	05/23/12 00:45	1
Thallium	0.025	U	0.025	0.0087	mg/L		05/21/12 17:58	05/23/12 00:45	1
Tin	0.050	U	0.050	0.0054	mg/L		05/21/12 17:58	05/23/12 00:45	1
Vanadium	0.010	U	0.010	0.0030	mg/L		05/21/12 17:58	05/23/12 00:45	1
Zinc	0.020	U	0.020	0.0063	mg/L		05/21/12 17:58	05/23/12 00:45	1

Lab Sample ID: LCS 680-238027/2-A
Matrix: Water
Analysis Batch: 238198

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 238027

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.490		mg/L		98	75 - 125
Arsenic	2.00	2.13		mg/L		107	75 - 125
Barium	2.00	2.10		mg/L		105	75 - 125
Beryllium	0.0500	0.0526		mg/L		105	75 - 125
Cadmium	0.0500	0.0517		mg/L		103	75 - 125
Chromium	0.200	0.208		mg/L		104	75 - 125
Cobalt	0.500	0.530		mg/L		106	75 - 125
Copper	0.250	0.269		mg/L		107	75 - 125
Lead	0.500	0.517		mg/L		103	75 - 125
Nickel	0.500	0.520		mg/L		104	75 - 125
Selenium	2.00	2.09		mg/L		104	75 - 125
Silver	0.0500	0.0522		mg/L		104	75 - 125
Thallium	2.00	2.17		mg/L		108	75 - 125
Tin	1.00	1.05		mg/L		105	75 - 125
Vanadium	0.500	0.515		mg/L		103	75 - 125
Zinc	0.500	0.515		mg/L		103	75 - 125

Lab Sample ID: MB 680-238497/1-A
Matrix: Water
Analysis Batch: 238551

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 238497

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.020	U	0.020	0.0052	mg/L		05/25/12 11:41	05/25/12 22:04	1
Arsenic	0.020	U	0.020	0.010	mg/L		05/25/12 11:41	05/25/12 22:04	1
Barium	0.010	U	0.010	0.0020	mg/L		05/25/12 11:41	05/25/12 22:04	1
Beryllium	0.0040	U	0.0040	0.00010	mg/L		05/25/12 11:41	05/25/12 22:04	1
Cadmium	0.0050	U	0.0050	0.0020	mg/L		05/25/12 11:41	05/25/12 22:04	1
Chromium	0.010	U	0.010	0.0020	mg/L		05/25/12 11:41	05/25/12 22:04	1
Cobalt	0.010	U	0.010	0.0010	mg/L		05/25/12 11:41	05/25/12 22:04	1
Copper	0.020	U	0.020	0.0050	mg/L		05/25/12 11:41	05/25/12 22:04	1
Lead	0.010	U	0.010	0.0034	mg/L		05/25/12 11:41	05/25/12 22:04	1
Nickel	0.040	U	0.040	0.0040	mg/L		05/25/12 11:41	05/25/12 22:04	1
Selenium	0.020	U	0.020	0.0064	mg/L		05/25/12 11:41	05/25/12 22:04	1
Silver	0.010	U	0.010	0.00097	mg/L		05/25/12 11:41	05/25/12 22:04	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 680-238497/1-A
Matrix: Water
Analysis Batch: 238551

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 238497

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.025	U	0.025	0.0087	mg/L		05/25/12 11:41	05/25/12 22:04	1
Tin	0.050	U	0.050	0.0054	mg/L		05/25/12 11:41	05/25/12 22:04	1
Vanadium	0.010	U	0.010	0.0030	mg/L		05/25/12 11:41	05/25/12 22:04	1
Zinc	0.020	U	0.020	0.0063	mg/L		05/25/12 11:41	05/25/12 22:04	1

Lab Sample ID: LCS 680-238497/2-A
Matrix: Water
Analysis Batch: 238551

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 238497

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.487		mg/L		97	75 - 125
Arsenic	2.00	2.11		mg/L		106	75 - 125
Barium	2.00	2.07		mg/L		103	75 - 125
Beryllium	0.0500	0.0506		mg/L		101	75 - 125
Cadmium	0.0500	0.0505		mg/L		101	75 - 125
Chromium	0.200	0.202		mg/L		101	75 - 125
Cobalt	0.500	0.521		mg/L		104	75 - 125
Copper	0.250	0.270		mg/L		108	75 - 125
Lead	0.500	0.508		mg/L		102	75 - 125
Nickel	0.500	0.511		mg/L		102	75 - 125
Selenium	2.00	2.07		mg/L		104	75 - 125
Silver	0.0500	0.0509		mg/L		102	75 - 125
Thallium	2.00	2.12		mg/L		106	75 - 125
Tin	1.00	1.03		mg/L		103	75 - 125
Vanadium	0.500	0.510		mg/L		102	75 - 125
Zinc	0.500	0.496		mg/L		99	75 - 125

Lab Sample ID: 680-79571-9 MS
Matrix: Water
Analysis Batch: 238551

Client Sample ID: Dup-1
Prep Type: Total Recoverable
Prep Batch: 238497

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.020	U	0.500	0.504		mg/L		101	75 - 125
Arsenic	0.020	U	2.00	2.20		mg/L		110	75 - 125
Barium	0.16		2.00	2.23		mg/L		104	75 - 125
Beryllium	0.0040	U	0.0500	0.0514		mg/L		103	75 - 125
Cadmium	0.0050	U	0.0500	0.0500		mg/L		100	75 - 125
Chromium	0.0051	J	0.200	0.208		mg/L		101	75 - 125
Cobalt	0.010	U	0.500	0.519		mg/L		104	75 - 125
Copper	0.020	U	0.250	0.282		mg/L		113	75 - 125
Lead	0.010	U	0.500	0.505		mg/L		101	75 - 125
Nickel	0.040	U	0.500	0.509		mg/L		102	75 - 125
Selenium	0.0064	J	2.00	2.17		mg/L		108	75 - 125
Silver	0.010	U	0.0500	0.0532		mg/L		106	75 - 125
Thallium	0.025	U	2.00	2.08		mg/L		104	75 - 125
Tin	0.050	U	1.00	1.04		mg/L		104	75 - 125
Vanadium	0.0056	J	0.500	0.521		mg/L		103	75 - 125
Zinc	0.020	U	0.500	0.495		mg/L		99	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 680-79571-9 MSD
Matrix: Water
Analysis Batch: 238551

Client Sample ID: Dup-1
Prep Type: Total Recoverable
Prep Batch: 238497

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	0.020	U	0.500	0.504		mg/L		101	75 - 125	0	20
Arsenic	0.020	U	2.00	2.21		mg/L		110	75 - 125	0	20
Barium	0.16		2.00	2.23		mg/L		104	75 - 125	0	20
Beryllium	0.0040	U	0.0500	0.0514		mg/L		103	75 - 125	0	20
Cadmium	0.0050	U	0.0500	0.0499		mg/L		100	75 - 125	0	20
Chromium	0.0051	J	0.200	0.208		mg/L		101	75 - 125	0	20
Cobalt	0.010	U	0.500	0.520		mg/L		104	75 - 125	0	20
Copper	0.020	U	0.250	0.282		mg/L		113	75 - 125	0	20
Lead	0.010	U	0.500	0.503		mg/L		101	75 - 125	0	20
Nickel	0.040	U	0.500	0.508		mg/L		102	75 - 125	0	20
Selenium	0.0064	J	2.00	2.16		mg/L		108	75 - 125	0	20
Silver	0.010	U	0.0500	0.0532		mg/L		106	75 - 125	0	20
Thallium	0.025	U	2.00	2.08		mg/L		104	75 - 125	0	20
Tin	0.050	U	1.00	1.04		mg/L		104	75 - 125	0	20
Vanadium	0.0056	J	0.500	0.522		mg/L		103	75 - 125	0	20
Zinc	0.020	U	0.500	0.493		mg/L		99	75 - 125	0	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-237806/1-A
Matrix: Water
Analysis Batch: 238210

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 237806

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020	0.000091	mg/L		05/18/12 12:35	05/22/12 10:27	1

Lab Sample ID: LCS 680-237806/2-A
Matrix: Water
Analysis Batch: 238210

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 237806

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.00250	0.00248		mg/L		99	80 - 120		

Lab Sample ID: 680-79571-9 MS
Matrix: Water
Analysis Batch: 238210

Client Sample ID: Dup-1
Prep Type: Total/NA
Prep Batch: 237806

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	0.00020	U	0.00100	0.000978		mg/L		98	80 - 120		

Lab Sample ID: 680-79571-9 MSD
Matrix: Water
Analysis Batch: 238210

Client Sample ID: Dup-1
Prep Type: Total/NA
Prep Batch: 237806

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.00020	U	0.00100	0.000959		mg/L		96	80 - 120	2	20

GC/MS VOA

Analysis Batch: 237819

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-79571-10	Trip Blank 2	Total/NA	Water	8260B	
680-79571-11	FB-1	Total/NA	Water	8260B	
680-79571-12	EB-1	Total/NA	Water	8260B	
680-79571-13	EB-2	Total/NA	Water	8260B	
680-79571-14	EB-3	Total/NA	Water	8260B	
LCS 680-237819/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-237819/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-237819/7	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 237898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-79571-6	MW-49S	Total/NA	Water	8260B	
680-79571-7	MW-49I	Total/NA	Water	8260B	
680-79571-8	MW-49D	Total/NA	Water	8260B	
680-79571-9	Dup-1	Total/NA	Water	8260B	
LCS 680-237898/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-237898/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-237898/7	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 237899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-79571-1	MW-42I	Total/NA	Water	8260B	
680-79571-5	MW-43D	Total/NA	Water	8260B	
LCS 680-237899/1	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-237899/2	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-237899/8	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 237953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-79571-2	MW-42D	Total/NA	Water	8260B	
680-79571-3	MW-43S	Total/NA	Water	8260B	
680-79571-4	MW-43I	Total/NA	Water	8260B	
LCS 680-237953/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-237953/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-237953/7	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 238122

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-79571-16	MW-42S	Total/NA	Waste	8260B	238157
LCSD 680-238122/5	Lab Control Sample Dup	Total/NA	Waste	8260B	
MB 680-238122/7	Method Blank	Total/NA	Waste	8260B	

Prep Batch: 238157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-79571-16	MW-42S	Total/NA	Waste	5030B	

Analysis Batch: 238266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-79571-9 MS	Dup-1	Total/NA	Water	8260B	
680-79571-9 MSD	Dup-1	Total/NA	Water	8260B	
LCS 680-238266/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-238266/5	Lab Control Sample Dup	Total/NA	Water	8260B	

GC/MS VOA (Continued)

Analysis Batch: 238266 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-238266/7	Method Blank	Total/NA	Water	8260B	

GC Semi VOA

Prep Batch: 237769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-79571-1	MW-42I	Total/NA	Water	3520C	
680-79571-2	MW-42D	Total/NA	Water	3520C	
680-79571-3	MW-43S	Total/NA	Water	3520C	
680-79571-4	MW-43I	Total/NA	Water	3520C	
680-79571-5	MW-43D	Total/NA	Water	3520C	
680-79571-9	Dup-1	Total/NA	Water	3520C	
680-79571-9 MS	Dup-1	Total/NA	Water	3520C	
680-79571-9 MSD	Dup-1	Total/NA	Water	3520C	
680-79571-12	EB-1	Total/NA	Water	3520C	
680-79571-13	EB-2	Total/NA	Water	3520C	
680-79571-14	EB-3	Total/NA	Water	3520C	
680-79571-15	MW-42S	Total/NA	Water	3520C	
LCS 680-237769/21-A	Lab Control Sample	Total/NA	Water	3520C	
MB 680-237769/17-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 238224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-237769/21-A	Lab Control Sample	Total/NA	Water	8081A_8082	237769
MB 680-237769/17-A	Method Blank	Total/NA	Water	8081A_8082	237769

Prep Batch: 238605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-79571-1 - RE	MW-42I	Total/NA	Water	3520C	
680-79571-2 - RE	MW-42D	Total/NA	Water	3520C	
680-79571-3 - RE	MW-43S	Total/NA	Water	3520C	
680-79571-4 - RE	MW-43I	Total/NA	Water	3520C	
680-79571-5 - RE	MW-43D	Total/NA	Water	3520C	
680-79571-9 - RE	Dup-1	Total/NA	Water	3520C	
680-79571-12 - RE	EB-1	Total/NA	Water	3520C	
680-79571-13 - RE	EB-2	Total/NA	Water	3520C	
680-79571-14 - RE	EB-3	Total/NA	Water	3520C	
680-79571-15 - RE	MW-42S	Total/NA	Water	3520C	
LCS 680-238605/18-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 680-238605/19-A	Lab Control Sample Dup	Total/NA	Water	3520C	
MB 680-238605/17-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 238799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-79571-9	Dup-1	Total/NA	Water	8081A_8082	237769
680-79571-9 MS	Dup-1	Total/NA	Water	8081A_8082	237769
680-79571-9 MSD	Dup-1	Total/NA	Water	8081A_8082	237769
680-79571-12	EB-1	Total/NA	Water	8081A_8082	237769
680-79571-13	EB-2	Total/NA	Water	8081A_8082	237769
680-79571-14	EB-3	Total/NA	Water	8081A_8082	237769

GC Semi VOA (Continued)

Analysis Batch: 238804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-79571-1	MW-42I	Total/NA	Water	8081A_8082	237769
680-79571-2	MW-42D	Total/NA	Water	8081A_8082	237769
680-79571-3	MW-43S	Total/NA	Water	8081A_8082	237769
680-79571-4	MW-43I	Total/NA	Water	8081A_8082	237769
680-79571-5	MW-43D	Total/NA	Water	8081A_8082	237769
680-79571-15	MW-42S	Total/NA	Water	8081A_8082	237769

Analysis Batch: 238855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-79571-1	MW-42I	Total/NA	Water	8081A_8082	237769
680-79571-2	MW-42D	Total/NA	Water	8081A_8082	237769
680-79571-3	MW-43S	Total/NA	Water	8081A_8082	237769
680-79571-4	MW-43I	Total/NA	Water	8081A_8082	237769
680-79571-5	MW-43D	Total/NA	Water	8081A_8082	237769
680-79571-15	MW-42S	Total/NA	Water	8081A_8082	237769

Analysis Batch: 238857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-79571-9	Dup-1	Total/NA	Water	8081A_8082	237769
680-79571-9 MS	Dup-1	Total/NA	Water	8081A_8082	237769
680-79571-9 MSD	Dup-1	Total/NA	Water	8081A_8082	237769
680-79571-12	EB-1	Total/NA	Water	8081A_8082	237769
680-79571-13	EB-2	Total/NA	Water	8081A_8082	237769
680-79571-14	EB-3	Total/NA	Water	8081A_8082	237769

Analysis Batch: 239360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-79571-1 - RE	MW-42I	Total/NA	Water	8081A_8082	238605
680-79571-2 - RE	MW-42D	Total/NA	Water	8081A_8082	238605
680-79571-3 - RE	MW-43S	Total/NA	Water	8081A_8082	238605
680-79571-4 - RE	MW-43I	Total/NA	Water	8081A_8082	238605
680-79571-5 - RE	MW-43D	Total/NA	Water	8081A_8082	238605
680-79571-9 - RE	Dup-1	Total/NA	Water	8081A_8082	238605
680-79571-12 - RE	EB-1	Total/NA	Water	8081A_8082	238605
680-79571-13 - RE	EB-2	Total/NA	Water	8081A_8082	238605
680-79571-14 - RE	EB-3	Total/NA	Water	8081A_8082	238605
680-79571-15 - RE	MW-42S	Total/NA	Water	8081A_8082	238605
MB 680-238605/17-A	Method Blank	Total/NA	Water	8081A_8082	238605

Analysis Batch: 239361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-79571-1 - RE	MW-42I	Total/NA	Water	8081A_8082	238605
680-79571-2 - RE	MW-42D	Total/NA	Water	8081A_8082	238605
680-79571-3 - RE	MW-43S	Total/NA	Water	8081A_8082	238605
680-79571-4 - RE	MW-43I	Total/NA	Water	8081A_8082	238605
680-79571-5 - RE	MW-43D	Total/NA	Water	8081A_8082	238605
680-79571-9 - RE	Dup-1	Total/NA	Water	8081A_8082	238605
680-79571-12 - RE	EB-1	Total/NA	Water	8081A_8082	238605
680-79571-13 - RE	EB-2	Total/NA	Water	8081A_8082	238605
680-79571-14 - RE	EB-3	Total/NA	Water	8081A_8082	238605
680-79571-15 - RE	MW-42S	Total/NA	Water	8081A_8082	238605
LCS 680-238605/18-A	Lab Control Sample	Total/NA	Water	8081A_8082	238605

GC Semi VOA (Continued)

Analysis Batch: 239361 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 680-238605/19-A	Lab Control Sample Dup	Total/NA	Water	8081A_8082	238605
MB 680-238605/17-A	Method Blank	Total/NA	Water	8081A_8082	238605

Analysis Batch: 239678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-237769/17-A	Method Blank	Total/NA	Water	8081A_8082	237769

Metals

Prep Batch: 237806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-79571-1	MW-42I	Total/NA	Water	7470A	
680-79571-2	MW-42D	Total/NA	Water	7470A	
680-79571-3	MW-43S	Total/NA	Water	7470A	
680-79571-4	MW-43I	Total/NA	Water	7470A	
680-79571-5	MW-43D	Total/NA	Water	7470A	
680-79571-9	Dup-1	Total/NA	Water	7470A	
680-79571-9 MS	Dup-1	Total/NA	Water	7470A	
680-79571-9 MSD	Dup-1	Total/NA	Water	7470A	
680-79571-12	EB-1	Total/NA	Water	7470A	
680-79571-13	EB-2	Total/NA	Water	7470A	
680-79571-14	EB-3	Total/NA	Water	7470A	
LCS 680-237806/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 680-237806/1-A	Method Blank	Total/NA	Water	7470A	

Prep Batch: 238027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-79571-1	MW-42I	Total Recoverable	Water	3005A	
680-79571-2	MW-42D	Total Recoverable	Water	3005A	
680-79571-3	MW-43S	Total Recoverable	Water	3005A	
680-79571-4	MW-43I	Total Recoverable	Water	3005A	
680-79571-5	MW-43D	Total Recoverable	Water	3005A	
680-79571-12	EB-1	Total Recoverable	Water	3005A	
680-79571-13	EB-2	Total Recoverable	Water	3005A	
680-79571-14	EB-3	Total Recoverable	Water	3005A	
LCS 680-238027/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 680-238027/1-A	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 238198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-79571-1	MW-42I	Total Recoverable	Water	6010B	238027
680-79571-2	MW-42D	Total Recoverable	Water	6010B	238027
680-79571-3	MW-43S	Total Recoverable	Water	6010B	238027
680-79571-4	MW-43I	Total Recoverable	Water	6010B	238027
680-79571-5	MW-43D	Total Recoverable	Water	6010B	238027
680-79571-12	EB-1	Total Recoverable	Water	6010B	238027
680-79571-13	EB-2	Total Recoverable	Water	6010B	238027
680-79571-14	EB-3	Total Recoverable	Water	6010B	238027
LCS 680-238027/2-A	Lab Control Sample	Total Recoverable	Water	6010B	238027
MB 680-238027/1-A	Method Blank	Total Recoverable	Water	6010B	238027

Metals (Continued)

Analysis Batch: 238210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-79571-1	MW-42I	Total/NA	Water	7470A	237806
680-79571-2	MW-42D	Total/NA	Water	7470A	237806
680-79571-3	MW-43S	Total/NA	Water	7470A	237806
680-79571-4	MW-43I	Total/NA	Water	7470A	237806
680-79571-5	MW-43D	Total/NA	Water	7470A	237806
680-79571-9	Dup-1	Total/NA	Water	7470A	237806
680-79571-9 MS	Dup-1	Total/NA	Water	7470A	237806
680-79571-9 MSD	Dup-1	Total/NA	Water	7470A	237806
680-79571-12	EB-1	Total/NA	Water	7470A	237806
680-79571-13	EB-2	Total/NA	Water	7470A	237806
680-79571-14	EB-3	Total/NA	Water	7470A	237806
LCS 680-237806/2-A	Lab Control Sample	Total/NA	Water	7470A	237806
MB 680-237806/1-A	Method Blank	Total/NA	Water	7470A	237806

Prep Batch: 238497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-79571-9	Dup-1	Total Recoverable	Water	3005A	
680-79571-9 MS	Dup-1	Total Recoverable	Water	3005A	
680-79571-9 MSD	Dup-1	Total Recoverable	Water	3005A	
LCS 680-238497/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 680-238497/1-A	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 238551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-79571-9	Dup-1	Total Recoverable	Water	6010B	238497
680-79571-9 MS	Dup-1	Total Recoverable	Water	6010B	238497
680-79571-9 MSD	Dup-1	Total Recoverable	Water	6010B	238497
LCS 680-238497/2-A	Lab Control Sample	Total Recoverable	Water	6010B	238497
MB 680-238497/1-A	Method Blank	Total Recoverable	Water	6010B	238497

Lab Chronicle

Client: Ashland Inc.
Project/Site: HERC Brunswick Ph 3 RFI - GW MAY 2012

TestAmerica Job ID: 680-79571-1

Client Sample ID: MW-42I

Date Collected: 05/16/12 15:50
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79571-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		50	237899	05/19/12 16:09	RB	TAL SAV
Total/NA	Prep	3520C			237769	05/18/12 15:41	RBS	TAL SAV
Total/NA	Analysis	8081A_8082		10	238804	05/24/12 19:59	GM	TAL SAV
Total/NA	Analysis	8081A_8082		10	238855	05/24/12 19:59	GM	TAL SAV
Total/NA	Prep	3520C	RE		238605	05/28/12 15:21	RBS	TAL SAV
Total/NA	Analysis	8081A_8082	RE	10	239360	05/31/12 20:24	JK	TAL SAV
Total/NA	Analysis	8081A_8082	RE	10	239361	05/31/12 20:24	JK	TAL SAV
Total Recoverable	Prep	3005A			238027	05/21/12 17:58	CDJ	TAL SAV
Total Recoverable	Analysis	6010B		1	238198	05/23/12 02:07	BCB	TAL SAV
Total/NA	Prep	7470A			237806	05/18/12 12:35	JKL	TAL SAV
Total/NA	Analysis	7470A		1	238210	05/22/12 10:34	JKL	TAL SAV

Client Sample ID: MW-42D

Date Collected: 05/16/12 15:30
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79571-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	237953	05/20/12 21:29	RB	TAL SAV
Total/NA	Prep	3520C			237769	05/18/12 15:41	RBS	TAL SAV
Total/NA	Analysis	8081A_8082		10	238804	05/24/12 20:18	GM	TAL SAV
Total/NA	Analysis	8081A_8082		10	238855	05/24/12 20:18	GM	TAL SAV
Total/NA	Prep	3520C	RE		238605	05/28/12 15:21	RBS	TAL SAV
Total/NA	Analysis	8081A_8082	RE	10	239360	05/31/12 20:44	JK	TAL SAV
Total/NA	Analysis	8081A_8082	RE	10	239361	05/31/12 20:44	JK	TAL SAV
Total Recoverable	Prep	3005A			238027	05/21/12 17:58	CDJ	TAL SAV
Total Recoverable	Analysis	6010B		1	238198	05/23/12 02:11	BCB	TAL SAV
Total/NA	Prep	7470A			237806	05/18/12 12:35	JKL	TAL SAV
Total/NA	Analysis	7470A		1	238210	05/22/12 10:37	JKL	TAL SAV

Client Sample ID: MW-43S

Date Collected: 05/16/12 13:30
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79571-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	237953	05/20/12 19:34	RB	TAL SAV
Total/NA	Prep	3520C			237769	05/18/12 15:41	RBS	TAL SAV
Total/NA	Analysis	8081A_8082		1	238804	05/24/12 21:36	GM	TAL SAV
Total/NA	Analysis	8081A_8082		1	238855	05/24/12 21:36	GM	TAL SAV
Total/NA	Prep	3520C	RE		238605	05/28/12 15:21	RBS	TAL SAV
Total/NA	Analysis	8081A_8082	RE	1	239360	05/31/12 21:03	JK	TAL SAV
Total/NA	Analysis	8081A_8082	RE	1	239361	05/31/12 21:03	JK	TAL SAV
Total Recoverable	Prep	3005A			238027	05/21/12 17:58	CDJ	TAL SAV
Total Recoverable	Analysis	6010B		1	238198	05/23/12 02:15	BCB	TAL SAV

Client Sample ID: MW-43S

Lab Sample ID: 680-79571-3

Date Collected: 05/16/12 13:30

Matrix: Water

Date Received: 05/17/12 10:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			237806	05/18/12 12:35	JKL	TAL SAV
Total/NA	Analysis	7470A		1	238210	05/22/12 10:40	JKL	TAL SAV

Client Sample ID: MW-43I

Lab Sample ID: 680-79571-4

Date Collected: 05/16/12 13:20

Matrix: Water

Date Received: 05/17/12 10:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	237953	05/20/12 20:03	RB	TAL SAV
Total/NA	Prep	3520C			237769	05/18/12 15:41	RBS	TAL SAV
Total/NA	Analysis	8081A_8082		1	238804	05/24/12 21:55	GM	TAL SAV
Total/NA	Analysis	8081A_8082		1	238855	05/24/12 21:55	GM	TAL SAV
Total/NA	Prep	3520C	RE		238605	05/28/12 15:21	RBS	TAL SAV
Total/NA	Analysis	8081A_8082	RE	1	239360	05/31/12 21:23	JK	TAL SAV
Total/NA	Analysis	8081A_8082	RE	1	239361	05/31/12 21:23	JK	TAL SAV
Total Recoverable	Prep	3005A			238027	05/21/12 17:58	CDJ	TAL SAV
Total Recoverable	Analysis	6010B		1	238198	05/23/12 02:20	BCB	TAL SAV
Total/NA	Prep	7470A			237806	05/18/12 12:35	JKL	TAL SAV
Total/NA	Analysis	7470A		1	238210	05/22/12 10:44	JKL	TAL SAV

Client Sample ID: MW-43D

Lab Sample ID: 680-79571-5

Date Collected: 05/16/12 13:00

Matrix: Water

Date Received: 05/17/12 10:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		50	237899	05/19/12 16:38	RB	TAL SAV
Total/NA	Prep	3520C			237769	05/18/12 15:41	RBS	TAL SAV
Total/NA	Analysis	8081A_8082		10	238804	05/24/12 20:38	GM	TAL SAV
Total/NA	Analysis	8081A_8082		10	238855	05/24/12 20:38	GM	TAL SAV
Total/NA	Prep	3520C	RE		238605	05/28/12 15:21	RBS	TAL SAV
Total/NA	Analysis	8081A_8082	RE	10	239360	05/31/12 21:42	JK	TAL SAV
Total/NA	Analysis	8081A_8082	RE	10	239361	05/31/12 21:42	JK	TAL SAV
Total Recoverable	Prep	3005A			238027	05/21/12 17:58	CDJ	TAL SAV
Total Recoverable	Analysis	6010B		1	238198	05/23/12 02:24	BCB	TAL SAV
Total/NA	Prep	7470A			237806	05/18/12 12:35	JKL	TAL SAV
Total/NA	Analysis	7470A		1	238210	05/22/12 10:47	JKL	TAL SAV

Client Sample ID: MW-49S

Lab Sample ID: 680-79571-6

Date Collected: 05/16/12 14:50

Matrix: Water

Date Received: 05/17/12 10:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	237898	05/19/12 13:03	RB	TAL SAV

Lab Chronicle

Client: Ashland Inc.
Project/Site: HERC Brunswick Ph 3 RFI - GW MAY 2012

TestAmerica Job ID: 680-79571-1

Client Sample ID: MW-49I
Date Collected: 05/16/12 14:40
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79571-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	237898	05/19/12 13:31	RB	TAL SAV

Client Sample ID: MW-49D
Date Collected: 05/16/12 14:20
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79571-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	237898	05/19/12 14:00	RB	TAL SAV

Client Sample ID: Dup-1
Date Collected: 05/16/12 00:00
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79571-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	237898	05/19/12 14:29	RB	TAL SAV
Total/NA	Prep	3520C			237769	05/18/12 15:41	RBS	TAL SAV
Total/NA	Analysis	8081A_8082		1	238799	05/25/12 00:11	GM	TAL SAV
Total/NA	Analysis	8081A_8082		1	238857	05/25/12 00:11	GM	TAL SAV
Total/NA	Prep	3520C	RE		238605	05/28/12 15:21	RBS	TAL SAV
Total/NA	Analysis	8081A_8082	RE	1	239360	05/31/12 22:01	JK	TAL SAV
Total/NA	Analysis	8081A_8082	RE	1	239361	05/31/12 22:01	JK	TAL SAV
Total/NA	Prep	7470A			237806	05/18/12 12:35	JKL	TAL SAV
Total/NA	Analysis	7470A		1	238210	05/22/12 10:51	JKL	TAL SAV
Total Recoverable	Prep	3005A			238497	05/25/12 11:41	CDJ	TAL SAV
Total Recoverable	Analysis	6010B		1	238551	05/25/12 22:21	BCB	TAL SAV

Client Sample ID: Trip Blank 2
Date Collected: 05/16/12 00:00
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79571-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	237819	05/18/12 15:29	RB	TAL SAV

Client Sample ID: FB-1
Date Collected: 05/16/12 00:00
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79571-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	237819	05/18/12 16:26	RB	TAL SAV

Client Sample ID: EB-1

Lab Sample ID: 680-79571-12

Date Collected: 05/16/12 11:15

Matrix: Water

Date Received: 05/17/12 10:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	237819	05/18/12 15:57	RB	TAL SAV
Total/NA	Prep	3520C			237769	05/18/12 15:41	RBS	TAL SAV
Total/NA	Analysis	8081A_8082		1	238799	05/25/12 00:30	GM	TAL SAV
Total/NA	Analysis	8081A_8082		1	238857	05/25/12 00:30	GM	TAL SAV
Total/NA	Prep	3520C	RE		238605	05/28/12 15:21	RBS	TAL SAV
Total/NA	Analysis	8081A_8082	RE	1	239360	05/31/12 22:21	JK	TAL SAV
Total/NA	Analysis	8081A_8082	RE	1	239361	05/31/12 22:21	JK	TAL SAV
Total Recoverable	Prep	3005A			238027	05/21/12 17:58	CDJ	TAL SAV
Total Recoverable	Analysis	6010B		1	238198	05/23/12 02:41	BCB	TAL SAV
Total/NA	Prep	7470A			237806	05/18/12 12:35	JKL	TAL SAV
Total/NA	Analysis	7470A		1	238210	05/22/12 11:07	JKL	TAL SAV

Client Sample ID: EB-2

Lab Sample ID: 680-79571-13

Date Collected: 05/16/12 11:30

Matrix: Water

Date Received: 05/17/12 10:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	237819	05/18/12 15:00	RB	TAL SAV
Total/NA	Prep	3520C			237769	05/18/12 15:41	RBS	TAL SAV
Total/NA	Analysis	8081A_8082		1	238799	05/25/12 00:49	GM	TAL SAV
Total/NA	Analysis	8081A_8082		1	238857	05/25/12 00:49	GM	TAL SAV
Total/NA	Prep	3520C	RE		238605	05/28/12 15:21	RBS	TAL SAV
Total/NA	Analysis	8081A_8082	RE	1	239360	05/31/12 22:40	JK	TAL SAV
Total/NA	Analysis	8081A_8082	RE	1	239361	05/31/12 22:40	JK	TAL SAV
Total Recoverable	Prep	3005A			238027	05/21/12 17:58	CDJ	TAL SAV
Total Recoverable	Analysis	6010B		1	238198	05/23/12 02:45	BCB	TAL SAV
Total/NA	Prep	7470A			237806	05/18/12 12:35	JKL	TAL SAV
Total/NA	Analysis	7470A		1	238210	05/22/12 11:11	JKL	TAL SAV

Client Sample ID: EB-3

Lab Sample ID: 680-79571-14

Date Collected: 05/16/12 11:45

Matrix: Water

Date Received: 05/17/12 10:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	237819	05/18/12 14:31	RB	TAL SAV
Total/NA	Prep	3520C			237769	05/18/12 15:41	RBS	TAL SAV
Total/NA	Analysis	8081A_8082		1	238799	05/25/12 01:09	GM	TAL SAV
Total/NA	Analysis	8081A_8082		1	238857	05/25/12 01:09	GM	TAL SAV
Total/NA	Prep	3520C	RE		238605	05/28/12 15:21	RBS	TAL SAV
Total/NA	Analysis	8081A_8082	RE	1	239360	05/31/12 23:00	JK	TAL SAV
Total/NA	Analysis	8081A_8082	RE	1	239361	05/31/12 23:00	JK	TAL SAV
Total Recoverable	Prep	3005A			238027	05/21/12 17:58	CDJ	TAL SAV
Total Recoverable	Analysis	6010B		1	238198	05/23/12 02:50	BCB	TAL SAV
Total/NA	Prep	7470A			237806	05/18/12 12:35	JKL	TAL SAV

Lab Chronicle

Client: Ashland Inc.
Project/Site: HERC Brunswick Ph 3 RFI - GW MAY 2012

TestAmerica Job ID: 680-79571-1

Client Sample ID: EB-3

Lab Sample ID: 680-79571-14

Date Collected: 05/16/12 11:45
Matrix: Water
Date Received: 05/17/12 10:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7470A		1	238210	05/22/12 11:15	JKL	TAL SAV

Client Sample ID: MW-42S

Lab Sample ID: 680-79571-15

Date Collected: 05/16/12 19:30
Matrix: Water
Date Received: 05/17/12 10:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			237769	05/18/12 15:41	RBS	TAL SAV
Total/NA	Analysis	8081A_8082		500	238804	05/24/12 20:57	GM	TAL SAV
Total/NA	Analysis	8081A_8082		500	238855	05/24/12 20:57	GM	TAL SAV
Total/NA	Prep	3520C	RE		238605	05/28/12 15:21	RBS	TAL SAV
Total/NA	Analysis	8081A_8082	RE	50	239360	05/31/12 23:19	JK	TAL SAV
Total/NA	Analysis	8081A_8082	RE	50	239361	05/31/12 23:19	JK	TAL SAV

Client Sample ID: MW-42S

Lab Sample ID: 680-79571-16

Date Collected: 05/16/12 19:30
Matrix: Waste
Date Received: 05/17/12 10:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			238157	05/21/12 11:30	ES	TAL SAV
Total/NA	Analysis	8260B		40	238122	05/22/12 13:18	ES	TAL SAV

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Savannah
5102 LaRoche Avenue

Savannah, GA 31404
phone 912.354.7858 fax 912.352.0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Dean Salisbury	Site Contact: Tim Hassett	Date:	COC No: 1 of 2 COCs
Hercules, Inc.	Tel/Fax: 803-404-5901	Lab Contact: Lidya Guiliza	Carrier:	Job No.
	Analysis Turnaround Time			SDG No.
Project Name: Semi-Annual GW Monitoring	Calendar (C) or Work Days (W) _____			
Site: Former Hercules, Brunswick, Facility	TAT if different from Below _____			
P O #	☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	8260B-Appendix IX VOCs	8081B-Technical toxaphene, total area toxaphene (chlorinated camphene)	6010B-Appendix IX Metals	Sample Specific Notes:
~~MW-43S~~ RM	~~5/16~~ RM			~~GW~~ RM	RM		✓	✓	✓ RM	
MW-42I	5/16/12	0950	G	W	6		✓	✓	✓	
MW-42D		1530			6		✓	✓	✓	
MW-43S		1330			6		✓	✓	✓	
MW-43I		1320			6		✓	✓	✓	
MW-43D		1350			6		✓	✓	✓	
MW-49S		1450			3		✓			
MW-49I		1440			3		✓			
MW-49D	5/16/12	1420			3		✓			
Dup-1 E	5/16/12				6		✓	✓	✓	Duplicate of MS,MSD
TripBlank 2							X			
FB-1	5/16/12						X			

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant Poison B ☐ Unknown ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

60-79571 2.2°/2.0°/4.2°/4.0°/4.0° ~~0.4,2.0,2.0,0.8,0.4~~ 05/17/12

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	Antea	5/17/12 1000		TA	10:00
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company: TA SAV	Date/Time: 05/17/12 1035

Savannah
5102 LaRoche Avenue

Savannah, GA 31404
phone 912.354.7858 fax 912.352.0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Dean Salisbury	Site Contact: Tim Hassett	Date:	COC No:
Hercules, Inc.	Tel/Fax: 803-404-5901	Lab Contact: Lidya Guiliza	Carrier:	2 of 2 COCs

Analysis Turnaround Time

Calendar (C) or Work Days (W) _____

TAT if different from Below _____

☐ 2 weeks
☐ 1 week
☐ 2 days
☐ 1 day

Project Name: Semi-Annual GW Monitoring
Site: Former Hercules, Brunswick, Facility
P O #

Job No.

SDG No.

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	8260B-Appendix IX VOCs	8081B-Technical toxaphene, total area toxaphene (chlorinated camphene)	6010B-Appendix IX Metals	Sample Specific Notes:
EB-1	5/16/12	~~1115~~ 1115	G	W	6		X	X	X	
EB-2	5/16/12	1130	G	W	6		X	X	X	
EB-3	5/16/12	1145	G	W	6		X	X	X	
MW425	5/16/12	1930	G	P	5		X	X		

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Preservation Used: 1= Ice, 2= HCl; 3= H_2SO_4; 4=HNO_3; 5=NaOH; 6= Other _____

Possible Hazard Identification

☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Special Instructions/QC Requirements & Comments:

680 - 79571

2.2°C / 2.0°C / 4.2°C / 4.0°C / 4.0°C

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company: TAMN	Date/Time: 05/17/12 1035

Login Sample Receipt Checklist

Client: Ashland Inc.

Job Number: 680-79571-1

Login Number: 79571

List Source: TestAmerica Savannah

List Number: 1

Creator: Barnett, Eddie T

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.2, 2.0, 4.2, 4.0, 4.0 C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	pH of container(s) is out of range: c3, c5, c2, c9, c4
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Ashland Inc.
TestAmerica Job ID: 680-79571-1
Project/Site: HERC Brunswick Ph 3 RFI - GW MAY 2012

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Savannah	A2LA	DoD ELAP		0399-01
TestAmerica Savannah	A2LA	ISO/IEC 17025		399.01
TestAmerica Savannah	Alabama	State Program	4	41450
TestAmerica Savannah	Arkansas DEQ	State Program	6	88-0692
TestAmerica Savannah	California	NELAC	9	3217CA
TestAmerica Savannah	Colorado	State Program	8	N/A
TestAmerica Savannah	Connecticut	State Program	1	PH-0161
TestAmerica Savannah	Florida	NELAC	4	E87052
TestAmerica Savannah	GA Dept. of Agriculture	State Program	4	N/A
TestAmerica Savannah	Georgia	State Program	4	803
TestAmerica Savannah	Georgia	State Program	4	N/A
TestAmerica Savannah	Guam	State Program	9	09-005r
TestAmerica Savannah	Hawaii	State Program	9	N/A
TestAmerica Savannah	Illinois	NELAC	5	200022
TestAmerica Savannah	Indiana	State Program	5	N/A
TestAmerica Savannah	Iowa	State Program	7	353
TestAmerica Savannah	Kentucky	State Program	4	90084
TestAmerica Savannah	Kentucky (UST)	State Program	4	18
TestAmerica Savannah	Louisiana	NELAC	6	30690
TestAmerica Savannah	Louisiana	NELAC	6	LA100015
TestAmerica Savannah	Maine	State Program	1	GA00006
TestAmerica Savannah	Maryland	State Program	3	250
TestAmerica Savannah	Massachusetts	State Program	1	M-GA006
TestAmerica Savannah	Michigan	State Program	5	9925
TestAmerica Savannah	Mississippi	State Program	4	N/A
TestAmerica Savannah	Montana	State Program	8	CERT0081
TestAmerica Savannah	Nebraska	State Program	7	TestAmerica-Savannah
TestAmerica Savannah	New Jersey	NELAC	2	GA769
TestAmerica Savannah	New Mexico	State Program	6	N/A
TestAmerica Savannah	New York	NELAC	2	10842
TestAmerica Savannah	North Carolina DENR	State Program	4	269
TestAmerica Savannah	North Carolina DHHS	State Program	4	13701
TestAmerica Savannah	Oklahoma	State Program	6	9984
TestAmerica Savannah	Pennsylvania	NELAC	3	68-00474
TestAmerica Savannah	Puerto Rico	State Program	2	GA00006
TestAmerica Savannah	Rhode Island	State Program	1	LAO00244
TestAmerica Savannah	South Carolina	State Program	4	98001
TestAmerica Savannah	Tennessee	State Program	4	TN02961
TestAmerica Savannah	Texas	NELAC	6	T104704185-08-TX
TestAmerica Savannah	USDA	Federal		SAV 3-04
TestAmerica Savannah	Vermont	State Program	1	87052
TestAmerica Savannah	Virginia	NELAC	3	460161
TestAmerica Savannah	Washington	State Program	10	C1794
TestAmerica Savannah	West Virginia	State Program	3	9950C
TestAmerica Savannah	West Virginia DEP	State Program	3	94
TestAmerica Savannah	Wisconsin	State Program	5	999819810
TestAmerica Savannah	Wyoming	State Program	8	8TMS-Q

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-79567-1
Client Project/Site: HERC Brunswick Ph 3 RFI - MW-50 MAY 2012

For:
Ashland Inc.
Ashland Hercules Research Center
500 Hercules Rd Bldg 8139
Wilmington, Delaware 19808

Attn: Timothy Hassett

Authorized for release by:
5/31/2012 4:33:17 PM

Lidya Gulizia
Project Manager II
lidya.gulizia@testamericainc.com

cc: Tony Mancini

Table of Contents

Job ID: 680-79567-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Ashland Inc.

Project: HERC Brunswick Ph 3 RFI - MW-50 MAY 2012

Report Number: 680-79567-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 05/17/2012; the samples arrived in good condition, properly preserved and on ice. The temperatures of the 5 coolers at receipt time were 2.0º C, 2.2º C, 4.0º C, 4.0º C and 4.2º C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples MW-50S (680-79567-1), MW-50I (680-79567-2) and MW-50D (680-79567-3) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 05/23/2012.

No difficulties were encountered during the volatiles analyses.

All quality control parameters were within the acceptance limits.

METALS (ICP)

Samples MW-50S (680-79567-1), MW-50I (680-79567-2) and MW-50D (680-79567-3) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010B. The samples were prepared on 05/21/2012 and analyzed on 05/23/2012.

No difficulties were encountered during the metals analyses.

All quality control parameters were within the acceptance limits.

TOTAL MERCURY

Samples MW-50S (680-79567-1), MW-50I (680-79567-2) and MW-50D (680-79567-3) were analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 05/18/2012 and analyzed on 05/22/2012.

During pH adjustment, the following sample(s) required 1 mL of acid to reach the desired pH: MW-50I (680-79567-2), MW-50S (680-79567-1).

No difficulties were encountered during the mercury analyses.

All quality control parameters were within the acceptance limits.

Sample Summary

Client: Ashland Inc.
Project/Site: HERC Brunswick Ph 3 RFI - MW-50 MAY 2012

TestAmerica Job ID: 680-79567-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-79567-1	MW-50S	Water	05/16/12 09:00	05/17/12 10:35
680-79567-2	MW-50I	Water	05/16/12 09:25	05/17/12 10:35
680-79567-3	MW-50D	Water	05/16/12 09:45	05/17/12 10:35

Method Summary

Client: Ashland Inc.
TestAmerica Job ID: 680-79567-1
Project/Site: HERC Brunswick Ph 3 RFI - MW-50 MAY 2012

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
6010B	Metals (ICP)	SW846	TAL SAV
7470A	Mercury (CVAA)	SW846	TAL SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Definitions/Glossary

Client: Ashland Inc. TestAmerica Job ID: 680-79567-1
Project/Site: HERC Brunswick Ph 3 RFI - MW-50 MAY 2012

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: Ashland Inc.
Project/Site: HERC Brunswick Ph 3 RFI - MW-50 MAY 2012

TestAmerica Job ID: 680-79567-1

Client Sample ID: MW-50S — Lab Sample ID: 680-79567-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.030		0.010	0.0020	mg/L	1		6010B	Total Recoverable
Beryllium	0.00016	J	0.0040	0.00010	mg/L	1		6010B	Total Recoverable
Chromium	0.0056	J	0.010	0.0020	mg/L	1		6010B	Total Recoverable
Lead	0.0058	J	0.010	0.0034	mg/L	1		6010B	Total Recoverable
Selenium	0.0065	J	0.020	0.0064	mg/L	1		6010B	Total Recoverable
Vanadium	0.0082	J	0.010	0.0030	mg/L	1		6010B	Total Recoverable

Client Sample ID: MW-50I — Lab Sample ID: 680-79567-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.064		0.010	0.0020	mg/L	1		6010B	Total Recoverable
Beryllium	0.00012	J	0.0040	0.00010	mg/L	1		6010B	Total Recoverable
Chromium	0.0073	J	0.010	0.0020	mg/L	1		6010B	Total Recoverable
Selenium	0.0075	J	0.020	0.0064	mg/L	1		6010B	Total Recoverable
Vanadium	0.0080	J	0.010	0.0030	mg/L	1		6010B	Total Recoverable

Client Sample ID: MW-50D — Lab Sample ID: 680-79567-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.033		0.010	0.0020	mg/L	1		6010B	Total Recoverable
Chromium	0.0047	J	0.010	0.0020	mg/L	1		6010B	Total Recoverable

Client: Ashland Inc.
Project/Site: HERC Brunswick Ph 3 RFI - MW-50 MAY 2012

TestAmerica Job ID: 680-79567-1

Client Sample ID: MW-50S
Date Collected: 05/16/12 09:00
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79567-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/23/12 12:33	1
Acetonitrile	40	U	40	10	ug/L			05/23/12 12:33	1
Acrolein	20	U	20	7.4	ug/L			05/23/12 12:33	1
Acrylonitrile	20	U	20	7.2	ug/L			05/23/12 12:33	1
Benzene	1.0	U	1.0	0.25	ug/L			05/23/12 12:33	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/23/12 12:33	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/23/12 12:33	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/23/12 12:33	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/23/12 12:33	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/23/12 12:33	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			05/23/12 12:33	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			05/23/12 12:33	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/23/12 12:33	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/23/12 12:33	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/23/12 12:33	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			05/23/12 12:33	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/23/12 12:33	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/23/12 12:33	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/23/12 12:33	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/23/12 12:33	1
Dichlorobromomethane	1.0	U	1.0	0.25	ug/L			05/23/12 12:33	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/23/12 12:33	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/23/12 12:33	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/23/12 12:33	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/23/12 12:33	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/23/12 12:33	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/23/12 12:33	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			05/23/12 12:33	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/23/12 12:33	1
2-Hexanone	10	U	10	1.0	ug/L			05/23/12 12:33	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/23/12 12:33	1
Isobutyl alcohol	40	U	40	11	ug/L			05/23/12 12:33	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/23/12 12:33	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/23/12 12:33	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			05/23/12 12:33	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/23/12 12:33	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/23/12 12:33	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/23/12 12:33	1
Propionitrile	20	U	20	4.6	ug/L			05/23/12 12:33	1
Styrene	1.0	U	1.0	0.11	ug/L			05/23/12 12:33	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/23/12 12:33	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/23/12 12:33	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/23/12 12:33	1
Toluene	1.0	U	1.0	0.33	ug/L			05/23/12 12:33	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/23/12 12:33	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/23/12 12:33	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/23/12 12:33	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/23/12 12:33	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/23/12 12:33	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			05/23/12 12:33	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/23/12 12:33	1

Client: Ashland Inc.
Project/Site: HERC Brunswick Ph 3 RFI - MW-50 MAY 2012

TestAmerica Job ID: 680-79567-1

Client Sample ID: MW-50S
Date Collected: 05/16/12 09:00
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79567-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/23/12 12:33	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/23/12 12:33	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/23/12 12:33	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/23/12 12:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*70 - 130*		*05/23/12 12:33*	*1*
Dibromofluoromethane	*95*		*70 - 130*		*05/23/12 12:33*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*05/23/12 12:33*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.020	U	0.020	0.0052	mg/L		05/21/12 17:58	05/23/12 01:32	1
Arsenic	0.020	U	0.020	0.010	mg/L		05/21/12 17:58	05/23/12 01:32	1
Barium	**0.030**		0.010	0.0020	mg/L		05/21/12 17:58	05/23/12 01:32	1
Beryllium	**0.00016**	**J**	0.0040	0.00010	mg/L		05/21/12 17:58	05/23/12 01:32	1
Cadmium	0.0050	U	0.0050	0.0020	mg/L		05/21/12 17:58	05/23/12 01:32	1
Chromium	**0.0056**	**J**	0.010	0.0020	mg/L		05/21/12 17:58	05/23/12 01:32	1
Cobalt	0.010	U	0.010	0.0010	mg/L		05/21/12 17:58	05/23/12 01:32	1
Copper	0.020	U	0.020	0.0050	mg/L		05/21/12 17:58	05/23/12 01:32	1
Lead	**0.0058**	**J**	0.010	0.0034	mg/L		05/21/12 17:58	05/23/12 01:32	1
Nickel	0.040	U	0.040	0.0040	mg/L		05/21/12 17:58	05/23/12 01:32	1
Selenium	**0.0065**	**J**	0.020	0.0064	mg/L		05/21/12 17:58	05/23/12 01:32	1
Silver	0.010	U	0.010	0.00097	mg/L		05/21/12 17:58	05/23/12 01:32	1
Thallium	0.025	U	0.025	0.0087	mg/L		05/21/12 17:58	05/23/12 01:32	1
Tin	0.050	U	0.050	0.0054	mg/L		05/21/12 17:58	05/23/12 01:32	1
Vanadium	**0.0082**	**J**	0.010	0.0030	mg/L		05/21/12 17:58	05/23/12 01:32	1
Zinc	0.020	U	0.020	0.0063	mg/L		05/21/12 17:58	05/23/12 01:32	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020	0.000091	mg/L		05/18/12 10:12	05/22/12 13:09	1

Client: Ashland Inc.
Project/Site: HERC Brunswick Ph 3 RFI - MW-50 MAY 2012

TestAmerica Job ID: 680-79567-1

Client Sample ID: MW-50I
Date Collected: 05/16/12 09:25
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79567-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/23/12 13:02	1
Acetonitrile	40	U	40	10	ug/L			05/23/12 13:02	1
Acrolein	20	U	20	7.4	ug/L			05/23/12 13:02	1
Acrylonitrile	20	U	20	7.2	ug/L			05/23/12 13:02	1
Benzene	1.0	U	1.0	0.25	ug/L			05/23/12 13:02	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/23/12 13:02	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/23/12 13:02	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/23/12 13:02	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/23/12 13:02	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/23/12 13:02	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			05/23/12 13:02	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			05/23/12 13:02	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/23/12 13:02	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/23/12 13:02	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/23/12 13:02	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			05/23/12 13:02	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/23/12 13:02	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/23/12 13:02	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/23/12 13:02	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/23/12 13:02	1
Dichlorobromomethane	1.0	U	1.0	0.25	ug/L			05/23/12 13:02	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/23/12 13:02	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/23/12 13:02	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/23/12 13:02	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/23/12 13:02	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/23/12 13:02	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/23/12 13:02	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			05/23/12 13:02	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/23/12 13:02	1
2-Hexanone	10	U	10	1.0	ug/L			05/23/12 13:02	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/23/12 13:02	1
Isobutyl alcohol	40	U	40	11	ug/L			05/23/12 13:02	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/23/12 13:02	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/23/12 13:02	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			05/23/12 13:02	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/23/12 13:02	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/23/12 13:02	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/23/12 13:02	1
Propionitrile	20	U	20	4.6	ug/L			05/23/12 13:02	1
Styrene	1.0	U	1.0	0.11	ug/L			05/23/12 13:02	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/23/12 13:02	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/23/12 13:02	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/23/12 13:02	1
Toluene	1.0	U	1.0	0.33	ug/L			05/23/12 13:02	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/23/12 13:02	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/23/12 13:02	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/23/12 13:02	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/23/12 13:02	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/23/12 13:02	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			05/23/12 13:02	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/23/12 13:02	1

Client: Ashland Inc.
Project/Site: HERC Brunswick Ph 3 RFI - MW-50 MAY 2012

TestAmerica Job ID: 680-79567-1

Client Sample ID: MW-50I
Date Collected: 05/16/12 09:25
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79567-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/23/12 13:02	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/23/12 13:02	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/23/12 13:02	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/23/12 13:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*70 - 130*		*05/23/12 13:02*	*1*
Dibromofluoromethane	*97*		*70 - 130*		*05/23/12 13:02*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*05/23/12 13:02*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.020	U	0.020	0.0052	mg/L		05/21/12 17:58	05/23/12 01:37	1
Arsenic	0.020	U	0.020	0.010	mg/L		05/21/12 17:58	05/23/12 01:37	1
Barium	**0.064**		0.010	0.0020	mg/L		05/21/12 17:58	05/23/12 01:37	1
Beryllium	**0.00012**	**J**	0.0040	0.00010	mg/L		05/21/12 17:58	05/23/12 01:37	1
Cadmium	0.0050	U	0.0050	0.0020	mg/L		05/21/12 17:58	05/23/12 01:37	1
Chromium	**0.0073**	**J**	0.010	0.0020	mg/L		05/21/12 17:58	05/23/12 01:37	1
Cobalt	0.010	U	0.010	0.0010	mg/L		05/21/12 17:58	05/23/12 01:37	1
Copper	0.020	U	0.020	0.0050	mg/L		05/21/12 17:58	05/23/12 01:37	1
Lead	0.010	U	0.010	0.0034	mg/L		05/21/12 17:58	05/23/12 01:37	1
Nickel	0.040	U	0.040	0.0040	mg/L		05/21/12 17:58	05/23/12 01:37	1
Selenium	**0.0075**	**J**	0.020	0.0064	mg/L		05/21/12 17:58	05/23/12 01:37	1
Silver	0.010	U	0.010	0.00097	mg/L		05/21/12 17:58	05/23/12 01:37	1
Thallium	0.025	U	0.025	0.0087	mg/L		05/21/12 17:58	05/23/12 01:37	1
Tin	0.050	U	0.050	0.0054	mg/L		05/21/12 17:58	05/23/12 01:37	1
Vanadium	**0.0080**	**J**	0.010	0.0030	mg/L		05/21/12 17:58	05/23/12 01:37	1
Zinc	0.020	U	0.020	0.0063	mg/L		05/21/12 17:58	05/23/12 01:37	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020	0.000091	mg/L		05/18/12 10:12	05/22/12 13:12	1

Client: Ashland Inc.
Project/Site: HERC Brunswick Ph 3 RFI - MW-50 MAY 2012

TestAmerica Job ID: 680-79567-1

Client Sample ID: MW-50D
Date Collected: 05/16/12 09:45
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79567-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/23/12 13:30	1
Acetonitrile	40	U	40	10	ug/L			05/23/12 13:30	1
Acrolein	20	U	20	7.4	ug/L			05/23/12 13:30	1
Acrylonitrile	20	U	20	7.2	ug/L			05/23/12 13:30	1
Benzene	1.0	U	1.0	0.25	ug/L			05/23/12 13:30	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/23/12 13:30	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/23/12 13:30	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/23/12 13:30	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/23/12 13:30	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/23/12 13:30	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			05/23/12 13:30	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			05/23/12 13:30	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/23/12 13:30	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/23/12 13:30	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/23/12 13:30	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			05/23/12 13:30	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/23/12 13:30	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/23/12 13:30	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/23/12 13:30	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/23/12 13:30	1
Dichlorobromomethane	1.0	U	1.0	0.25	ug/L			05/23/12 13:30	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/23/12 13:30	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/23/12 13:30	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/23/12 13:30	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/23/12 13:30	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/23/12 13:30	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/23/12 13:30	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			05/23/12 13:30	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/23/12 13:30	1
2-Hexanone	10	U	10	1.0	ug/L			05/23/12 13:30	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/23/12 13:30	1
Isobutyl alcohol	40	U	40	11	ug/L			05/23/12 13:30	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/23/12 13:30	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/23/12 13:30	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			05/23/12 13:30	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/23/12 13:30	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/23/12 13:30	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/23/12 13:30	1
Propionitrile	20	U	20	4.6	ug/L			05/23/12 13:30	1
Styrene	1.0	U	1.0	0.11	ug/L			05/23/12 13:30	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/23/12 13:30	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/23/12 13:30	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/23/12 13:30	1
Toluene	1.0	U	1.0	0.33	ug/L			05/23/12 13:30	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/23/12 13:30	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/23/12 13:30	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/23/12 13:30	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/23/12 13:30	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/23/12 13:30	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			05/23/12 13:30	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/23/12 13:30	1

Client Sample ID: MW-50D
Date Collected: 05/16/12 09:45
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79567-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/23/12 13:30	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/23/12 13:30	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/23/12 13:30	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/23/12 13:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*70 - 130*		*05/23/12 13:30*	*1*
Dibromofluoromethane	*97*		*70 - 130*		*05/23/12 13:30*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*05/23/12 13:30*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.020	U	0.020	0.0052	mg/L		05/21/12 17:58	05/23/12 01:49	1
Arsenic	0.020	U	0.020	0.010	mg/L		05/21/12 17:58	05/23/12 01:49	1
Barium	**0.033**		0.010	0.0020	mg/L		05/21/12 17:58	05/23/12 01:49	1
Beryllium	0.0040	U	0.0040	0.00010	mg/L		05/21/12 17:58	05/23/12 01:49	1
Cadmium	0.0050	U	0.0050	0.0020	mg/L		05/21/12 17:58	05/23/12 01:49	1
Chromium	**0.0047**	**J**	0.010	0.0020	mg/L		05/21/12 17:58	05/23/12 01:49	1
Cobalt	0.010	U	0.010	0.0010	mg/L		05/21/12 17:58	05/23/12 01:49	1
Copper	0.020	U	0.020	0.0050	mg/L		05/21/12 17:58	05/23/12 01:49	1
Lead	0.010	U	0.010	0.0034	mg/L		05/21/12 17:58	05/23/12 01:49	1
Nickel	0.040	U	0.040	0.0040	mg/L		05/21/12 17:58	05/23/12 01:49	1
Selenium	0.020	U	0.020	0.0064	mg/L		05/21/12 17:58	05/23/12 01:49	1
Silver	0.010	U	0.010	0.00097	mg/L		05/21/12 17:58	05/23/12 01:49	1
Thallium	0.025	U	0.025	0.0087	mg/L		05/21/12 17:58	05/23/12 01:49	1
Tin	0.050	U	0.050	0.0054	mg/L		05/21/12 17:58	05/23/12 01:49	1
Vanadium	0.010	U	0.010	0.0030	mg/L		05/21/12 17:58	05/23/12 01:49	1
Zinc	0.020	U	0.020	0.0063	mg/L		05/21/12 17:58	05/23/12 01:49	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020	0.000091	mg/L		05/18/12 10:12	05/22/12 13:16	1

Surrogate Summary

Client: Ashland Inc.
Project/Site: HERC Brunswick Ph 3 RFI - MW-50 MAY 2012

TestAmerica Job ID: 680-79567-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)
680-79567-1	MW-50S	97	95	104
680-79567-2	MW-50I	96	97	104
680-79567-3	MW-50D	94	97	104
LCS 680-238252/4	Lab Control Sample	106	103	107
LCSD 680-238252/5	Lab Control Sample Dup	107	99	107
MB 680-238252/8	Method Blank	95	98	105

Surrogate Legend

BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-238252/8
Matrix: Water
Analysis Batch: 238252

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/23/12 12:05	1
Acetonitrile	40	U	40	10	ug/L			05/23/12 12:05	1
Acrolein	20	U	20	7.4	ug/L			05/23/12 12:05	1
Acrylonitrile	20	U	20	7.2	ug/L			05/23/12 12:05	1
Benzene	1.0	U	1.0	0.25	ug/L			05/23/12 12:05	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/23/12 12:05	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/23/12 12:05	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/23/12 12:05	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/23/12 12:05	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/23/12 12:05	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			05/23/12 12:05	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			05/23/12 12:05	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/23/12 12:05	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/23/12 12:05	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/23/12 12:05	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			05/23/12 12:05	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/23/12 12:05	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/23/12 12:05	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/23/12 12:05	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/23/12 12:05	1
Dichlorobromomethane	1.0	U	1.0	0.25	ug/L			05/23/12 12:05	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/23/12 12:05	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/23/12 12:05	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/23/12 12:05	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/23/12 12:05	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/23/12 12:05	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/23/12 12:05	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			05/23/12 12:05	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/23/12 12:05	1
2-Hexanone	10	U	10	1.0	ug/L			05/23/12 12:05	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/23/12 12:05	1
Isobutyl alcohol	40	U	40	11	ug/L			05/23/12 12:05	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/23/12 12:05	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/23/12 12:05	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			05/23/12 12:05	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/23/12 12:05	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/23/12 12:05	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/23/12 12:05	1
Propionitrile	20	U	20	4.6	ug/L			05/23/12 12:05	1
Styrene	1.0	U	1.0	0.11	ug/L			05/23/12 12:05	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/23/12 12:05	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/23/12 12:05	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/23/12 12:05	1
Toluene	1.0	U	1.0	0.33	ug/L			05/23/12 12:05	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/23/12 12:05	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/23/12 12:05	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/23/12 12:05	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/23/12 12:05	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/23/12 12:05	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-238252/8
Matrix: Water
Analysis Batch: 238252

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	1.0	U	1.0	0.13	ug/L			05/23/12 12:05	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/23/12 12:05	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/23/12 12:05	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/23/12 12:05	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/23/12 12:05	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/23/12 12:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*70 - 130*		*05/23/12 12:05*	*1*
Dibromofluoromethane	*98*		*70 - 130*		*05/23/12 12:05*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*		*05/23/12 12:05*	*1*

Lab Sample ID: LCS 680-238252/4
Matrix: Water
Analysis Batch: 238252

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	100	80.4		ug/L		80	26 - 180
Benzene	50.0	51.2		ug/L		102	70 - 130
Bromoform	50.0	45.4		ug/L		91	70 - 130
Bromomethane	50.0	32.3		ug/L		65	23 - 165
Carbon disulfide	50.0	49.0		ug/L		98	54 - 132
Carbon tetrachloride	50.0	49.7		ug/L		99	70 - 130
Chlorobenzene	50.0	51.0		ug/L		102	70 - 130
Chlorodibromomethane	50.0	47.5		ug/L		95	70 - 130
Chloroethane	50.0	51.6		ug/L		103	56 - 152
Chloroform	50.0	50.2		ug/L		100	70 - 130
Chloromethane	50.0	59.9		ug/L		120	70 - 130
cis-1,2-Dichloroethene	50.0	49.8		ug/L		100	70 - 130
cis-1,3-Dichloropropene	50.0	54.5		ug/L		109	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	52.3		ug/L		105	70 - 130
Dibromomethane	50.0	53.7		ug/L		107	70 - 130
Dichlorobromomethane	50.0	55.2		ug/L		110	70 - 130
Dichlorodifluoromethane	50.0	50.4		ug/L		101	44 - 146
1,1-Dichloroethane	50.0	55.3		ug/L		111	70 - 130
1,2-Dichloroethane	50.0	56.5		ug/L		113	70 - 130
1,1-Dichloroethene	50.0	51.0		ug/L		102	66 - 131
1,2-Dichloropropane	50.0	54.3		ug/L		109	70 - 130
Ethylbenzene	50.0	50.8		ug/L		102	70 - 130
Ethylene Dibromide	50.0	54.2		ug/L		108	70 - 130
2-Hexanone	100	97.8		ug/L		98	42 - 185
Methylene Chloride	50.0	49.1		ug/L		98	67 - 130
2-Butanone (MEK)	100	79.0		ug/L		79	49 - 172
4-Methyl-2-pentanone (MIBK)	100	102		ug/L		102	70 - 130
Styrene	50.0	54.0		ug/L		108	70 - 130
1,1,1,2-Tetrachloroethane	50.0	51.1		ug/L		102	70 - 130
1,1,2,2-Tetrachloroethane	50.0	54.5		ug/L		109	70 - 130
Tetrachloroethene	50.0	52.0		ug/L		104	70 - 130
Toluene	50.0	54.8		ug/L		110	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-238252/4
Matrix: Water
Analysis Batch: 238252

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,2-Dichloroethene	50.0	52.6		ug/L		105	70 - 130
trans-1,3-Dichloropropene	50.0	47.2		ug/L		94	70 - 130
1,1,1-Trichloroethane	50.0	59.7		ug/L		119	70 - 130
1,1,2-Trichloroethane	50.0	54.2		ug/L		108	70 - 130
Trichloroethene	50.0	53.2		ug/L		106	70 - 130
Trichlorofluoromethane	50.0	55.5		ug/L		111	55 - 156
1,2,3-Trichloropropane	50.0	52.6		ug/L		105	70 - 130
Vinyl acetate	100	111		ug/L		111	60 - 176
Vinyl chloride	50.0	50.2		ug/L		100	67 - 134
Xylenes, Total	150	153		ug/L		102	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*106*		*70 - 130*
Dibromofluoromethane	*103*		*70 - 130*
Toluene-d8 (Surr)	*107*		*70 - 130*

Lab Sample ID: LCSD 680-238252/5
Matrix: Water
Analysis Batch: 238252

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	100	79.3		ug/L		79	26 - 180	1	50
Benzene	50.0	51.9		ug/L		104	70 - 130	1	30
Bromoform	50.0	44.9		ug/L		90	70 - 130	1	30
Bromomethane	50.0	37.6		ug/L		75	23 - 165	15	50
Carbon disulfide	50.0	47.5		ug/L		95	54 - 132	3	30
Carbon tetrachloride	50.0	49.8		ug/L		100	70 - 130	0	30
Chlorobenzene	50.0	51.5		ug/L		103	70 - 130	1	30
Chlorodibromomethane	50.0	47.4		ug/L		95	70 - 130	0	50
Chloroethane	50.0	48.6		ug/L		97	56 - 152	6	40
Chloroform	50.0	48.7		ug/L		97	70 - 130	3	30
Chloromethane	50.0	58.8		ug/L		118	70 - 130	2	30
cis-1,2-Dichloroethene	50.0	49.0		ug/L		98	70 - 130	2	30
cis-1,3-Dichloropropene	50.0	55.0		ug/L		110	70 - 130	1	30
1,2-Dibromo-3-Chloropropane	50.0	52.3		ug/L		105	70 - 130	0	50
Dibromomethane	50.0	54.1		ug/L		108	70 - 130	1	30
Dichlorobromomethane	50.0	56.3		ug/L		113	70 - 130	2	30
Dichlorodifluoromethane	50.0	50.5		ug/L		101	44 - 146	0	50
1,1-Dichloroethane	50.0	53.9		ug/L		108	70 - 130	3	30
1,2-Dichloroethane	50.0	57.8		ug/L		116	70 - 130	2	30
1,1-Dichloroethene	50.0	51.1		ug/L		102	66 - 131	0	30
1,2-Dichloropropane	50.0	55.3		ug/L		111	70 - 130	2	30
Ethylbenzene	50.0	51.2		ug/L		102	70 - 130	1	30
Ethylene Dibromide	50.0	55.1		ug/L		110	70 - 130	2	30
2-Hexanone	100	100		ug/L		100	42 - 185	3	30
Methylene Chloride	50.0	46.5		ug/L		93	67 - 130	6	30
2-Butanone (MEK)	100	77.4		ug/L		77	49 - 172	2	30
4-Methyl-2-pentanone (MIBK)	100	104		ug/L		104	70 - 130	2	30
Styrene	50.0	54.4		ug/L		109	70 - 130	1	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-238252/5
Matrix: Water
Analysis Batch: 238252

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane			50.0	50.6		ug/L		101	70 - 130	1	30
1,1,2,2-Tetrachloroethane			50.0	55.2		ug/L		110	70 - 130	1	30
Tetrachloroethene			50.0	50.3		ug/L		101	70 - 130	3	30
Toluene			50.0	53.7		ug/L		107	70 - 130	2	30
trans-1,2-Dichloroethene			50.0	52.2		ug/L		104	70 - 130	1	30
trans-1,3-Dichloropropene			50.0	47.6		ug/L		95	70 - 130	1	50
1,1,1-Trichloroethane			50.0	62.3		ug/L		125	70 - 130	4	30
1,1,2-Trichloroethane			50.0	55.7		ug/L		111	70 - 130	3	30
Trichloroethene			50.0	53.8		ug/L		108	70 - 130	1	30
Trichlorofluoromethane			50.0	54.9		ug/L		110	55 - 156	1	30
1,2,3-Trichloropropane			50.0	52.8		ug/L		106	70 - 130	0	30
Vinyl acetate			100	108		ug/L		108	60 - 176	3	30
Vinyl chloride			50.0	50.0		ug/L		100	67 - 134	0	30
Xylenes, Total			150	154		ug/L		103	70 - 130	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*107*		*70 - 130*
Dibromofluoromethane	*99*		*70 - 130*
Toluene-d8 (Surr)	*107*		*70 - 130*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 680-238027/1-A
Matrix: Water
Analysis Batch: 238198

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 238027

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.020	U	0.020	0.0052	mg/L		05/21/12 17:58	05/23/12 00:45	1
Arsenic	0.020	U	0.020	0.010	mg/L		05/21/12 17:58	05/23/12 00:45	1
Barium	0.010	U	0.010	0.0020	mg/L		05/21/12 17:58	05/23/12 00:45	1
Beryllium	0.0040	U	0.0040	0.00010	mg/L		05/21/12 17:58	05/23/12 00:45	1
Cadmium	0.0050	U	0.0050	0.0020	mg/L		05/21/12 17:58	05/23/12 00:45	1
Chromium	0.010	U	0.010	0.0020	mg/L		05/21/12 17:58	05/23/12 00:45	1
Cobalt	0.010	U	0.010	0.0010	mg/L		05/21/12 17:58	05/23/12 00:45	1
Copper	0.020	U	0.020	0.0050	mg/L		05/21/12 17:58	05/23/12 00:45	1
Lead	0.010	U	0.010	0.0034	mg/L		05/21/12 17:58	05/23/12 00:45	1
Nickel	0.040	U	0.040	0.0040	mg/L		05/21/12 17:58	05/23/12 00:45	1
Selenium	0.020	U	0.020	0.0064	mg/L		05/21/12 17:58	05/23/12 00:45	1
Silver	0.010	U	0.010	0.00097	mg/L		05/21/12 17:58	05/23/12 00:45	1
Thallium	0.025	U	0.025	0.0087	mg/L		05/21/12 17:58	05/23/12 00:45	1
Tin	0.050	U	0.050	0.0054	mg/L		05/21/12 17:58	05/23/12 00:45	1
Vanadium	0.010	U	0.010	0.0030	mg/L		05/21/12 17:58	05/23/12 00:45	1
Zinc	0.020	U	0.020	0.0063	mg/L		05/21/12 17:58	05/23/12 00:45	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 680-238027/2-A
Matrix: Water
Analysis Batch: 238198

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 238027

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.490		mg/L		98	75 - 125
Arsenic	2.00	2.13		mg/L		107	75 - 125
Barium	2.00	2.10		mg/L		105	75 - 125
Beryllium	0.0500	0.0526		mg/L		105	75 - 125
Cadmium	0.0500	0.0517		mg/L		103	75 - 125
Chromium	0.200	0.208		mg/L		104	75 - 125
Cobalt	0.500	0.530		mg/L		106	75 - 125
Copper	0.250	0.269		mg/L		107	75 - 125
Lead	0.500	0.517		mg/L		103	75 - 125
Nickel	0.500	0.520		mg/L		104	75 - 125
Selenium	2.00	2.09		mg/L		104	75 - 125
Silver	0.0500	0.0522		mg/L		104	75 - 125
Thallium	2.00	2.17		mg/L		108	75 - 125
Tin	1.00	1.05		mg/L		105	75 - 125
Vanadium	0.500	0.515		mg/L		103	75 - 125
Zinc	0.500	0.515		mg/L		103	75 - 125

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-237779/1-A
Matrix: Water
Analysis Batch: 238210

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 237779

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020	0.000091	mg/L		05/18/12 10:12	05/22/12 11:59	1

Lab Sample ID: LCS 680-237779/2-A
Matrix: Water
Analysis Batch: 238210

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 237779

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00250	0.00242		mg/L		97	80 - 120

QC Association Summary

Client: Ashland Inc.
Project/Site: HERC Brunswick Ph 3 RFI - MW-50 MAY 2012

TestAmerica Job ID: 680-79567-1

GC/MS VOA

Analysis Batch: 238252

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-79567-1	MW-50S	Total/NA	Water	8260B	
680-79567-2	MW-50I	Total/NA	Water	8260B	
680-79567-3	MW-50D	Total/NA	Water	8260B	
LCS 680-238252/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-238252/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-238252/8	Method Blank	Total/NA	Water	8260B	

Metals

Prep Batch: 237779

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-79567-1	MW-50S	Total/NA	Water	7470A	
680-79567-2	MW-50I	Total/NA	Water	7470A	
680-79567-3	MW-50D	Total/NA	Water	7470A	
LCS 680-237779/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 680-237779/1-A	Method Blank	Total/NA	Water	7470A	

Prep Batch: 238027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-79567-1	MW-50S	Total Recoverable	Water	3005A	
680-79567-2	MW-50I	Total Recoverable	Water	3005A	
680-79567-3	MW-50D	Total Recoverable	Water	3005A	
LCS 680-238027/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 680-238027/1-A	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 238198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-79567-1	MW-50S	Total Recoverable	Water	6010B	238027
680-79567-2	MW-50I	Total Recoverable	Water	6010B	238027
680-79567-3	MW-50D	Total Recoverable	Water	6010B	238027
LCS 680-238027/2-A	Lab Control Sample	Total Recoverable	Water	6010B	238027
MB 680-238027/1-A	Method Blank	Total Recoverable	Water	6010B	238027

Analysis Batch: 238210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-79567-1	MW-50S	Total/NA	Water	7470A	237779
680-79567-2	MW-50I	Total/NA	Water	7470A	237779
680-79567-3	MW-50D	Total/NA	Water	7470A	237779
LCS 680-237779/2-A	Lab Control Sample	Total/NA	Water	7470A	237779
MB 680-237779/1-A	Method Blank	Total/NA	Water	7470A	237779

Lab Chronicle

Client: Ashland Inc.
Project/Site: HERC Brunswick Ph 3 RFI - MW-50 MAY 2012

TestAmerica Job ID: 680-79567-1

Client Sample ID: MW-50S

Lab Sample ID: 680-79567-1

Date Collected: 05/16/12 09:00
Matrix: Water
Date Received: 05/17/12 10:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	238252	05/23/12 12:33	RB	TAL SAV
Total Recoverable	Prep	3005A			238027	05/21/12 17:58	CDJ	TAL SAV
Total Recoverable	Analysis	6010B		1	238198	05/23/12 01:32	BCB	TAL SAV
Total/NA	Prep	7470A			237779	05/18/12 10:12	JKL	TAL SAV
Total/NA	Analysis	7470A		1	238210	05/22/12 13:09	JKL	TAL SAV

Client Sample ID: MW-50I

Lab Sample ID: 680-79567-2

Date Collected: 05/16/12 09:25
Matrix: Water
Date Received: 05/17/12 10:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	238252	05/23/12 13:02	RB	TAL SAV
Total Recoverable	Prep	3005A			238027	05/21/12 17:58	CDJ	TAL SAV
Total Recoverable	Analysis	6010B		1	238198	05/23/12 01:37	BCB	TAL SAV
Total/NA	Prep	7470A			237779	05/18/12 10:12	JKL	TAL SAV
Total/NA	Analysis	7470A		1	238210	05/22/12 13:12	JKL	TAL SAV

Client Sample ID: MW-50D

Lab Sample ID: 680-79567-3

Date Collected: 05/16/12 09:45
Matrix: Water
Date Received: 05/17/12 10:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	238252	05/23/12 13:30	RB	TAL SAV
Total Recoverable	Prep	3005A			238027	05/21/12 17:58	CDJ	TAL SAV
Total Recoverable	Analysis	6010B		1	238198	05/23/12 01:49	BCB	TAL SAV
Total/NA	Prep	7470A			237779	05/18/12 10:12	JKL	TAL SAV
Total/NA	Analysis	7470A		1	238210	05/22/12 13:16	JKL	TAL SAV

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Savannah
5102 LaRoche Avenue

Savannah, GA 31404
phone 912.354.7858 fax 912.352.0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Dean Salisbury	Site Contact: Tim Hassett	Date:	COC No:
Hercules, Inc.	Tel/Fax: 803-404-5901	Lab Contact: Lidya Guiliza	Carrier:	1 of 1 COCs
	Analysis Turnaround Time			Job No.
	Calendar (C) or Work Days (W) _____			
	TAT if different from Below _____			SDG No.
Project Name: Semi-Annual GW Monitoring	☐ 2 weeks			
Site: Former Hercules, Brunswick, Facility	☐ 1 week			
PO#	☐ 2 days			
	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	8260B-Appendix IX VOCs	8081B-Technical toxaphene, total area toxaphene (chlorinated camphene)	6010B-Appendix IX Metals	Sample Specific Notes:
MW-50S	5/16/12	900	G	GW	4		✓		✓	
MW-50I	5/16/12	925	G	↓	4		✓		✓	
MW-50D	5/16/12	945	G	↓	4		✓		✓	

Preservation Used: 1= Ice, 2= HCl; 3= H_2SO_4; 4=HNO_3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant Poison B ☐ Unknown ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:
680-79567
2.2°C / 2.0° / 4.2° / 4.0°C / 4.0°C

	Company:	Date/Time:		Company:	Date/Time:
Relinquished by:	Antea	5/17 1000	Received by:	TA	10:00
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time: 05/17/12 1035

Login Sample Receipt Checklist

Client: Ashland Inc.

Job Number: 680-79567-1

Login Number: 79567

List Source: TestAmerica Savannah

List Number: 1

Creator: Barnett, Eddie T

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.2, 2.0, 4.2, 4.0, 4.0 C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	pH of container(s) is out of range: A1, A2
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	Insufficient volume received for MS/MSD.
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Ashland Inc.
TestAmerica Job ID: 680-79567-1
Project/Site: HERC Brunswick Ph 3 RFI - MW-50 MAY 2012

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Savannah	A2LA	DoD ELAP		0399-01
TestAmerica Savannah	A2LA	ISO/IEC 17025		399.01
TestAmerica Savannah	Alabama	State Program	4	41450
TestAmerica Savannah	Arkansas	State Program	6	N/A
TestAmerica Savannah	Arkansas DEQ	State Program	6	88-0692
TestAmerica Savannah	California	NELAC	9	3217CA
TestAmerica Savannah	Colorado	State Program	8	N/A
TestAmerica Savannah	Connecticut	State Program	1	PH-0161
TestAmerica Savannah	Florida	NELAC	4	E87052
TestAmerica Savannah	GA Dept. of Agriculture	State Program	4	N/A
TestAmerica Savannah	Georgia	State Program	4	803
TestAmerica Savannah	Georgia	State Program	4	N/A
TestAmerica Savannah	Guam	State Program	9	09-005r
TestAmerica Savannah	Hawaii	State Program	9	N/A
TestAmerica Savannah	Illinois	NELAC	5	200022
TestAmerica Savannah	Indiana	State Program	5	N/A
TestAmerica Savannah	Iowa	State Program	7	353
TestAmerica Savannah	Kentucky	State Program	4	90084
TestAmerica Savannah	Kentucky (UST)	State Program	4	18
TestAmerica Savannah	Louisiana	NELAC	6	30690
TestAmerica Savannah	Louisiana	NELAC	6	LA100015
TestAmerica Savannah	Maine	State Program	1	GA00006
TestAmerica Savannah	Maryland	State Program	3	250
TestAmerica Savannah	Massachusetts	State Program	1	M-GA006
TestAmerica Savannah	Michigan	State Program	5	9925
TestAmerica Savannah	Mississippi	State Program	4	N/A
TestAmerica Savannah	Montana	State Program	8	CERT0081
TestAmerica Savannah	Nebraska	State Program	7	TestAmerica-Savannah
TestAmerica Savannah	New Jersey	NELAC	2	GA769
TestAmerica Savannah	New Mexico	State Program	6	N/A
TestAmerica Savannah	New York	NELAC	2	10842
TestAmerica Savannah	North Carolina DENR	State Program	4	269
TestAmerica Savannah	North Carolina DHHS	State Program	4	13701
TestAmerica Savannah	Oklahoma	State Program	6	9984
TestAmerica Savannah	Pennsylvania	NELAC	3	68-00474
TestAmerica Savannah	Puerto Rico	State Program	2	GA00006
TestAmerica Savannah	Rhode Island	State Program	1	LAO00244
TestAmerica Savannah	South Carolina	State Program	4	98001
TestAmerica Savannah	Tennessee	State Program	4	TN02961
TestAmerica Savannah	Texas	NELAC	6	T104704185-08-TX
TestAmerica Savannah	USDA	Federal		SAV 3-04
TestAmerica Savannah	Vermont	State Program	1	87052
TestAmerica Savannah	Virginia	NELAC	3	460161
TestAmerica Savannah	Washington	State Program	10	C1794
TestAmerica Savannah	West Virginia	State Program	3	9950C
TestAmerica Savannah	West Virginia DEP	State Program	3	94
TestAmerica Savannah	Wisconsin	State Program	5	999819810
TestAmerica Savannah	Wyoming	State Program	8	8TMS-Q

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-79569-1
Client Project/Site: HERC Brunswick Ph 3 RFI - MW51- MAY 2012

For:
Ashland Inc.
Ashland Hercules Research Center
500 Hercules Rd Bldg 8139
Wilmington, Delaware 19808

Attn: Timothy Hassett

Authorized for release by:
5/31/2012 4:31:25 PM

Lidya Gulizia
Project Manager II
lidya.gulizia@testamericainc.com

cc: Tony Mancini

Table of Contents

Job ID: 680-79569-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Ashland Inc.

Project: HERC Brunswick Ph 3 RFI - MW51- MAY 2012

Report Number: 680-79569-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 05/17/2012; the samples arrived in good condition, properly preserved and on ice. The temperatures of the 5 coolers at receipt time were 2.0º C, 2.2º C, 4.0º C, 4.0º C and 4.2º C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples MW-51S (680-79569-1), MW-51I (680-79569-2) and MW-51D (680-79569-3) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 05/23/2012.

No difficulties were encountered during the volatiles analyses.

All quality control parameters were within the acceptance limits.

METALS (ICP)

Samples MW-51S (680-79569-1), MW-51I (680-79569-2) and MW-51D (680-79569-3) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010B. The samples were prepared on 05/21/2012 and analyzed on 05/23/2012.

No difficulties were encountered during the metals analyses.

All quality control parameters were within the acceptance limits.

TOTAL MERCURY

Samples MW-51S (680-79569-1), MW-51I (680-79569-2) and MW-51D (680-79569-3) were analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 05/18/2012 and analyzed on 05/22/2012.

During pH adjustment, the following sample(s) required 1 mL of acid to reach the desired pH: MW-51I (680-79569-2).

No difficulties were encountered during the mercury analyses.

All quality control parameters were within the acceptance limits.

Sample Summary

Client: Ashland Inc.
Project/Site: HERC Brunswick Ph 3 RFI - MW51- MAY 2012

TestAmerica Job ID: 680-79569-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-79569-1	MW-51S	Water	05/16/12 10:55	05/17/12 10:35
680-79569-2	MW-51I	Water	05/16/12 10:50	05/17/12 10:35
680-79569-3	MW-51D	Water	05/16/12 10:35	05/17/12 10:35

Method Summary

Client: Ashland Inc.
Project/Site: HERC Brunswick Ph 3 RFI - MW51- MAY 2012

TestAmerica Job ID: 680-79569-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
6010B	Metals (ICP)	SW846	TAL SAV
7470A	Mercury (CVAA)	SW846	TAL SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Definitions/Glossary

Client: Ashland Inc.
Project/Site: HERC Brunswick Ph 3 RFI - MW51- MAY 2012

TestAmerica Job ID: 680-79569-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: Ashland Inc.
Project/Site: HERC Brunswick Ph 3 RFI - MW51- MAY 2012

TestAmerica Job ID: 680-79569-1

Client Sample ID: MW-51S — Lab Sample ID: 680-79569-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.14		0.010	0.0020	mg/L	1		6010B	Total Recoverable
Beryllium	0.00014	J	0.0040	0.00010	mg/L	1		6010B	Total Recoverable
Chromium	0.016		0.010	0.0020	mg/L	1		6010B	Total Recoverable
Nickel	0.0096	J	0.040	0.0040	mg/L	1		6010B	Total Recoverable
Selenium	0.0081	J	0.020	0.0064	mg/L	1		6010B	Total Recoverable
Vanadium	0.014		0.010	0.0030	mg/L	1		6010B	Total Recoverable

Client Sample ID: MW-51I — Lab Sample ID: 680-79569-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.018	J	0.020	0.010	mg/L	1		6010B	Total Recoverable
Barium	0.056		0.010	0.0020	mg/L	1		6010B	Total Recoverable
Beryllium	0.00051	J	0.0040	0.00010	mg/L	1		6010B	Total Recoverable
Chromium	0.048		0.010	0.0020	mg/L	1		6010B	Total Recoverable
Cobalt	0.0027	J	0.010	0.0010	mg/L	1		6010B	Total Recoverable
Copper	0.0053	J	0.020	0.0050	mg/L	1		6010B	Total Recoverable
Lead	0.0053	J	0.010	0.0034	mg/L	1		6010B	Total Recoverable
Nickel	0.014	J	0.040	0.0040	mg/L	1		6010B	Total Recoverable
Vanadium	0.054		0.010	0.0030	mg/L	1		6010B	Total Recoverable
Zinc	0.021		0.020	0.0063	mg/L	1		6010B	Total Recoverable

Client Sample ID: MW-51D — Lab Sample ID: 680-79569-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.56	J	1.0	0.33	ug/L	1		8260B	Total/NA
Barium	0.085		0.010	0.0020	mg/L	1		6010B	Total Recoverable
Chromium	0.010		0.010	0.0020	mg/L	1		6010B	Total Recoverable
Nickel	0.0040	J	0.040	0.0040	mg/L	1		6010B	Total Recoverable
Vanadium	0.0043	J	0.010	0.0030	mg/L	1		6010B	Total Recoverable

Client: Ashland Inc.
Project/Site: HERC Brunswick Ph 3 RFI - MW51- MAY 2012

TestAmerica Job ID: 680-79569-1

Client Sample ID: MW-51S
Date Collected: 05/16/12 10:55
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79569-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/23/12 14:17	1
Acetonitrile	40	U	40	10	ug/L			05/23/12 14:17	1
Acrolein	20	U	20	7.4	ug/L			05/23/12 14:17	1
Acrylonitrile	20	U	20	7.2	ug/L			05/23/12 14:17	1
Benzene	1.0	U	1.0	0.25	ug/L			05/23/12 14:17	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/23/12 14:17	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/23/12 14:17	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/23/12 14:17	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/23/12 14:17	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/23/12 14:17	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			05/23/12 14:17	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			05/23/12 14:17	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/23/12 14:17	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/23/12 14:17	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/23/12 14:17	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			05/23/12 14:17	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/23/12 14:17	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/23/12 14:17	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/23/12 14:17	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/23/12 14:17	1
Dichlorobromomethane	1.0	U	1.0	0.25	ug/L			05/23/12 14:17	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/23/12 14:17	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/23/12 14:17	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/23/12 14:17	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/23/12 14:17	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/23/12 14:17	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/23/12 14:17	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			05/23/12 14:17	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/23/12 14:17	1
2-Hexanone	10	U	10	1.0	ug/L			05/23/12 14:17	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/23/12 14:17	1
Isobutyl alcohol	40	U	40	11	ug/L			05/23/12 14:17	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/23/12 14:17	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/23/12 14:17	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			05/23/12 14:17	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/23/12 14:17	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/23/12 14:17	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/23/12 14:17	1
Propionitrile	20	U	20	4.6	ug/L			05/23/12 14:17	1
Styrene	1.0	U	1.0	0.11	ug/L			05/23/12 14:17	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/23/12 14:17	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/23/12 14:17	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/23/12 14:17	1
Toluene	1.0	U	1.0	0.33	ug/L			05/23/12 14:17	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/23/12 14:17	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/23/12 14:17	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/23/12 14:17	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/23/12 14:17	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/23/12 14:17	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			05/23/12 14:17	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/23/12 14:17	1

Client: Ashland Inc.
Project/Site: HERC Brunswick Ph 3 RFI - MW51- MAY 2012

TestAmerica Job ID: 680-79569-1

Client Sample ID: MW-51S
Date Collected: 05/16/12 10:55
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79569-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/23/12 14:17	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/23/12 14:17	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/23/12 14:17	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/23/12 14:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*70 - 130*		*05/23/12 14:17*	*1*
Dibromofluoromethane	*96*		*70 - 130*		*05/23/12 14:17*	*1*
Toluene-d8 (Surr)	*106*		*70 - 130*		*05/23/12 14:17*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.020	U	0.020	0.0052	mg/L		05/21/12 17:58	05/23/12 01:54	1
Arsenic	0.020	U	0.020	0.010	mg/L		05/21/12 17:58	05/23/12 01:54	1
Barium	**0.14**		0.010	0.0020	mg/L		05/21/12 17:58	05/23/12 01:54	1
Beryllium	**0.00014**	**J**	0.0040	0.00010	mg/L		05/21/12 17:58	05/23/12 01:54	1
Cadmium	0.0050	U	0.0050	0.0020	mg/L		05/21/12 17:58	05/23/12 01:54	1
Chromium	**0.016**		0.010	0.0020	mg/L		05/21/12 17:58	05/23/12 01:54	1
Cobalt	0.010	U	0.010	0.0010	mg/L		05/21/12 17:58	05/23/12 01:54	1
Copper	0.020	U	0.020	0.0050	mg/L		05/21/12 17:58	05/23/12 01:54	1
Lead	0.010	U	0.010	0.0034	mg/L		05/21/12 17:58	05/23/12 01:54	1
Nickel	**0.0096**	**J**	0.040	0.0040	mg/L		05/21/12 17:58	05/23/12 01:54	1
Selenium	**0.0081**	**J**	0.020	0.0064	mg/L		05/21/12 17:58	05/23/12 01:54	1
Silver	0.010	U	0.010	0.00097	mg/L		05/21/12 17:58	05/23/12 01:54	1
Thallium	0.025	U	0.025	0.0087	mg/L		05/21/12 17:58	05/23/12 01:54	1
Tin	0.050	U	0.050	0.0054	mg/L		05/21/12 17:58	05/23/12 01:54	1
Vanadium	**0.014**		0.010	0.0030	mg/L		05/21/12 17:58	05/23/12 01:54	1
Zinc	0.020	U	0.020	0.0063	mg/L		05/21/12 17:58	05/23/12 01:54	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020	0.000091	mg/L		05/18/12 10:12	05/22/12 13:19	1

Client: Ashland Inc.
Project/Site: HERC Brunswick Ph 3 RFI - MW51- MAY 2012

TestAmerica Job ID: 680-79569-1

Client Sample ID: MW-51I
Date Collected: 05/16/12 10:50
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79569-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/23/12 14:45	1
Acetonitrile	40	U	40	10	ug/L			05/23/12 14:45	1
Acrolein	20	U	20	7.4	ug/L			05/23/12 14:45	1
Acrylonitrile	20	U	20	7.2	ug/L			05/23/12 14:45	1
Benzene	1.0	U	1.0	0.25	ug/L			05/23/12 14:45	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/23/12 14:45	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/23/12 14:45	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/23/12 14:45	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/23/12 14:45	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/23/12 14:45	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			05/23/12 14:45	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			05/23/12 14:45	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/23/12 14:45	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/23/12 14:45	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/23/12 14:45	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			05/23/12 14:45	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/23/12 14:45	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/23/12 14:45	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/23/12 14:45	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/23/12 14:45	1
Dichlorobromomethane	1.0	U	1.0	0.25	ug/L			05/23/12 14:45	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/23/12 14:45	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/23/12 14:45	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/23/12 14:45	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/23/12 14:45	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/23/12 14:45	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/23/12 14:45	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			05/23/12 14:45	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/23/12 14:45	1
2-Hexanone	10	U	10	1.0	ug/L			05/23/12 14:45	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/23/12 14:45	1
Isobutyl alcohol	40	U	40	11	ug/L			05/23/12 14:45	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/23/12 14:45	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/23/12 14:45	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			05/23/12 14:45	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/23/12 14:45	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/23/12 14:45	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/23/12 14:45	1
Propionitrile	20	U	20	4.6	ug/L			05/23/12 14:45	1
Styrene	1.0	U	1.0	0.11	ug/L			05/23/12 14:45	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/23/12 14:45	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/23/12 14:45	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/23/12 14:45	1
Toluene	1.0	U	1.0	0.33	ug/L			05/23/12 14:45	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/23/12 14:45	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/23/12 14:45	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/23/12 14:45	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/23/12 14:45	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/23/12 14:45	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			05/23/12 14:45	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/23/12 14:45	1

Client Sample ID: MW-51I
Lab Sample ID: 680-79569-2
Date Collected: 05/16/12 10:50
Matrix: Water
Date Received: 05/17/12 10:35

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/23/12 14:45	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/23/12 14:45	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/23/12 14:45	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/23/12 14:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*70 - 130*		*05/23/12 14:45*	*1*
Dibromofluoromethane	*96*		*70 - 130*		*05/23/12 14:45*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*05/23/12 14:45*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.020	U	0.020	0.0052	mg/L		05/21/12 17:58	05/23/12 01:58	1
Arsenic	**0.018**	**J**	0.020	0.010	mg/L		05/21/12 17:58	05/23/12 01:58	1
Barium	**0.056**		0.010	0.0020	mg/L		05/21/12 17:58	05/23/12 01:58	1
Beryllium	**0.00051**	**J**	0.0040	0.00010	mg/L		05/21/12 17:58	05/23/12 01:58	1
Cadmium	0.0050	U	0.0050	0.0020	mg/L		05/21/12 17:58	05/23/12 01:58	1
Chromium	**0.048**		0.010	0.0020	mg/L		05/21/12 17:58	05/23/12 01:58	1
Cobalt	**0.0027**	**J**	0.010	0.0010	mg/L		05/21/12 17:58	05/23/12 01:58	1
Copper	**0.0053**	**J**	0.020	0.0050	mg/L		05/21/12 17:58	05/23/12 01:58	1
Lead	**0.0053**	**J**	0.010	0.0034	mg/L		05/21/12 17:58	05/23/12 01:58	1
Nickel	**0.014**	**J**	0.040	0.0040	mg/L		05/21/12 17:58	05/23/12 01:58	1
Selenium	0.020	U	0.020	0.0064	mg/L		05/21/12 17:58	05/23/12 01:58	1
Silver	0.010	U	0.010	0.00097	mg/L		05/21/12 17:58	05/23/12 01:58	1
Thallium	0.025	U	0.025	0.0087	mg/L		05/21/12 17:58	05/23/12 01:58	1
Tin	0.050	U	0.050	0.0054	mg/L		05/21/12 17:58	05/23/12 01:58	1
Vanadium	**0.054**		0.010	0.0030	mg/L		05/21/12 17:58	05/23/12 01:58	1
Zinc	**0.021**		0.020	0.0063	mg/L		05/21/12 17:58	05/23/12 01:58	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020	0.000091	mg/L		05/18/12 10:12	05/22/12 13:23	1

Client: Ashland Inc.
Project/Site: HERC Brunswick Ph 3 RFI - MW51- MAY 2012

TestAmerica Job ID: 680-79569-1

Client Sample ID: MW-51D
Date Collected: 05/16/12 10:35
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79569-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/23/12 15:14	1
Acetonitrile	40	U	40	10	ug/L			05/23/12 15:14	1
Acrolein	20	U	20	7.4	ug/L			05/23/12 15:14	1
Acrylonitrile	20	U	20	7.2	ug/L			05/23/12 15:14	1
Benzene	1.0	U	1.0	0.25	ug/L			05/23/12 15:14	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/23/12 15:14	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/23/12 15:14	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/23/12 15:14	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/23/12 15:14	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/23/12 15:14	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			05/23/12 15:14	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			05/23/12 15:14	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/23/12 15:14	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/23/12 15:14	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/23/12 15:14	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			05/23/12 15:14	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/23/12 15:14	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/23/12 15:14	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/23/12 15:14	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/23/12 15:14	1
Dichlorobromomethane	1.0	U	1.0	0.25	ug/L			05/23/12 15:14	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/23/12 15:14	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/23/12 15:14	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/23/12 15:14	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/23/12 15:14	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/23/12 15:14	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/23/12 15:14	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			05/23/12 15:14	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/23/12 15:14	1
2-Hexanone	10	U	10	1.0	ug/L			05/23/12 15:14	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/23/12 15:14	1
Isobutyl alcohol	40	U	40	11	ug/L			05/23/12 15:14	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/23/12 15:14	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/23/12 15:14	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			05/23/12 15:14	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/23/12 15:14	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/23/12 15:14	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/23/12 15:14	1
Propionitrile	20	U	20	4.6	ug/L			05/23/12 15:14	1
Styrene	1.0	U	1.0	0.11	ug/L			05/23/12 15:14	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/23/12 15:14	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/23/12 15:14	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/23/12 15:14	1
Toluene	**0.56**	**J**	1.0	0.33	ug/L			05/23/12 15:14	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/23/12 15:14	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/23/12 15:14	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/23/12 15:14	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/23/12 15:14	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/23/12 15:14	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			05/23/12 15:14	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/23/12 15:14	1

Client: Ashland Inc.
Project/Site: HERC Brunswick Ph 3 RFI - MW51- MAY 2012

TestAmerica Job ID: 680-79569-1

Client Sample ID: MW-51D
Date Collected: 05/16/12 10:35
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79569-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/23/12 15:14	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/23/12 15:14	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/23/12 15:14	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/23/12 15:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*70 - 130*		*05/23/12 15:14*	*1*
Dibromofluoromethane	*98*		*70 - 130*		*05/23/12 15:14*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*05/23/12 15:14*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.020	U	0.020	0.0052	mg/L		05/21/12 17:58	05/23/12 02:02	1
Arsenic	0.020	U	0.020	0.010	mg/L		05/21/12 17:58	05/23/12 02:02	1
Barium	**0.085**		0.010	0.0020	mg/L		05/21/12 17:58	05/23/12 02:02	1
Beryllium	0.0040	U	0.0040	0.00010	mg/L		05/21/12 17:58	05/23/12 02:02	1
Cadmium	0.0050	U	0.0050	0.0020	mg/L		05/21/12 17:58	05/23/12 02:02	1
Chromium	**0.010**		0.010	0.0020	mg/L		05/21/12 17:58	05/23/12 02:02	1
Cobalt	0.010	U	0.010	0.0010	mg/L		05/21/12 17:58	05/23/12 02:02	1
Copper	0.020	U	0.020	0.0050	mg/L		05/21/12 17:58	05/23/12 02:02	1
Lead	0.010	U	0.010	0.0034	mg/L		05/21/12 17:58	05/23/12 02:02	1
Nickel	**0.0040**	**J**	0.040	0.0040	mg/L		05/21/12 17:58	05/23/12 02:02	1
Selenium	0.020	U	0.020	0.0064	mg/L		05/21/12 17:58	05/23/12 02:02	1
Silver	0.010	U	0.010	0.00097	mg/L		05/21/12 17:58	05/23/12 02:02	1
Thallium	0.025	U	0.025	0.0087	mg/L		05/21/12 17:58	05/23/12 02:02	1
Tin	0.050	U	0.050	0.0054	mg/L		05/21/12 17:58	05/23/12 02:02	1
Vanadium	**0.0043**	**J**	0.010	0.0030	mg/L		05/21/12 17:58	05/23/12 02:02	1
Zinc	0.020	U	0.020	0.0063	mg/L		05/21/12 17:58	05/23/12 02:02	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020	0.000091	mg/L		05/18/12 10:12	05/22/12 13:27	1

Surrogate Summary

Client: Ashland Inc.
Project/Site: HERC Brunswick Ph 3 RFI - MW51- MAY 2012

TestAmerica Job ID: 680-79569-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)
680-79569-1	MW-51S	94	96	106
680-79569-2	MW-51I	94	96	104
680-79569-3	MW-51D	96	98	103
LCS 680-238252/4	Lab Control Sample	106	103	107
LCSD 680-238252/5	Lab Control Sample Dup	107	99	107
MB 680-238252/8	Method Blank	95	98	105

Surrogate Legend

BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Client: Ashland Inc.
Project/Site: HERC Brunswick Ph 3 RFI - MW51- MAY 2012

TestAmerica Job ID: 680-79569-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-238252/8
Matrix: Water
Analysis Batch: 238252

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/23/12 12:05	1
Acetonitrile	40	U	40	10	ug/L			05/23/12 12:05	1
Acrolein	20	U	20	7.4	ug/L			05/23/12 12:05	1
Acrylonitrile	20	U	20	7.2	ug/L			05/23/12 12:05	1
Benzene	1.0	U	1.0	0.25	ug/L			05/23/12 12:05	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/23/12 12:05	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/23/12 12:05	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/23/12 12:05	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/23/12 12:05	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/23/12 12:05	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			05/23/12 12:05	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			05/23/12 12:05	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/23/12 12:05	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/23/12 12:05	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/23/12 12:05	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			05/23/12 12:05	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/23/12 12:05	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/23/12 12:05	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/23/12 12:05	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/23/12 12:05	1
Dichlorobromomethane	1.0	U	1.0	0.25	ug/L			05/23/12 12:05	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/23/12 12:05	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/23/12 12:05	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/23/12 12:05	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/23/12 12:05	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/23/12 12:05	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/23/12 12:05	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			05/23/12 12:05	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/23/12 12:05	1
2-Hexanone	10	U	10	1.0	ug/L			05/23/12 12:05	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/23/12 12:05	1
Isobutyl alcohol	40	U	40	11	ug/L			05/23/12 12:05	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/23/12 12:05	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/23/12 12:05	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			05/23/12 12:05	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/23/12 12:05	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/23/12 12:05	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/23/12 12:05	1
Propionitrile	20	U	20	4.6	ug/L			05/23/12 12:05	1
Styrene	1.0	U	1.0	0.11	ug/L			05/23/12 12:05	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/23/12 12:05	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/23/12 12:05	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/23/12 12:05	1
Toluene	1.0	U	1.0	0.33	ug/L			05/23/12 12:05	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/23/12 12:05	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/23/12 12:05	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/23/12 12:05	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/23/12 12:05	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/23/12 12:05	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-238252/8
Matrix: Water
Analysis Batch: 238252

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	1.0	U	1.0	0.13	ug/L			05/23/12 12:05	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/23/12 12:05	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/23/12 12:05	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/23/12 12:05	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/23/12 12:05	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/23/12 12:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*70 - 130*		*05/23/12 12:05*	*1*
Dibromofluoromethane	*98*		*70 - 130*		*05/23/12 12:05*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*		*05/23/12 12:05*	*1*

Lab Sample ID: LCS 680-238252/4
Matrix: Water
Analysis Batch: 238252

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	100	80.4		ug/L		80	26 - 180
Benzene	50.0	51.2		ug/L		102	70 - 130
Bromoform	50.0	45.4		ug/L		91	70 - 130
Bromomethane	50.0	32.3		ug/L		65	23 - 165
Carbon disulfide	50.0	49.0		ug/L		98	54 - 132
Carbon tetrachloride	50.0	49.7		ug/L		99	70 - 130
Chlorobenzene	50.0	51.0		ug/L		102	70 - 130
Chlorodibromomethane	50.0	47.5		ug/L		95	70 - 130
Chloroethane	50.0	51.6		ug/L		103	56 - 152
Chloroform	50.0	50.2		ug/L		100	70 - 130
Chloromethane	50.0	59.9		ug/L		120	70 - 130
cis-1,2-Dichloroethene	50.0	49.8		ug/L		100	70 - 130
cis-1,3-Dichloropropene	50.0	54.5		ug/L		109	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	52.3		ug/L		105	70 - 130
Dibromomethane	50.0	53.7		ug/L		107	70 - 130
Dichlorobromomethane	50.0	55.2		ug/L		110	70 - 130
Dichlorodifluoromethane	50.0	50.4		ug/L		101	44 - 146
1,1-Dichloroethane	50.0	55.3		ug/L		111	70 - 130
1,2-Dichloroethane	50.0	56.5		ug/L		113	70 - 130
1,1-Dichloroethene	50.0	51.0		ug/L		102	66 - 131
1,2-Dichloropropane	50.0	54.3		ug/L		109	70 - 130
Ethylbenzene	50.0	50.8		ug/L		102	70 - 130
Ethylene Dibromide	50.0	54.2		ug/L		108	70 - 130
2-Hexanone	100	97.8		ug/L		98	42 - 185
Methylene Chloride	50.0	49.1		ug/L		98	67 - 130
2-Butanone (MEK)	100	79.0		ug/L		79	49 - 172
4-Methyl-2-pentanone (MIBK)	100	102		ug/L		102	70 - 130
Styrene	50.0	54.0		ug/L		108	70 - 130
1,1,1,2-Tetrachloroethane	50.0	51.1		ug/L		102	70 - 130
1,1,2,2-Tetrachloroethane	50.0	54.5		ug/L		109	70 - 130
Tetrachloroethene	50.0	52.0		ug/L		104	70 - 130
Toluene	50.0	54.8		ug/L		110	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-238252/4
Matrix: Water
Analysis Batch: 238252

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,2-Dichloroethene	50.0	52.6		ug/L		105	70 - 130
trans-1,3-Dichloropropene	50.0	47.2		ug/L		94	70 - 130
1,1,1-Trichloroethane	50.0	59.7		ug/L		119	70 - 130
1,1,2-Trichloroethane	50.0	54.2		ug/L		108	70 - 130
Trichloroethene	50.0	53.2		ug/L		106	70 - 130
Trichlorofluoromethane	50.0	55.5		ug/L		111	55 - 156
1,2,3-Trichloropropane	50.0	52.6		ug/L		105	70 - 130
Vinyl acetate	100	111		ug/L		111	60 - 176
Vinyl chloride	50.0	50.2		ug/L		100	67 - 134
Xylenes, Total	150	153		ug/L		102	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*106*		*70 - 130*
Dibromofluoromethane	*103*		*70 - 130*
Toluene-d8 (Surr)	*107*		*70 - 130*

Lab Sample ID: LCSD 680-238252/5
Matrix: Water
Analysis Batch: 238252

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	100	79.3		ug/L		79	26 - 180	1	50
Benzene	50.0	51.9		ug/L		104	70 - 130	1	30
Bromoform	50.0	44.9		ug/L		90	70 - 130	1	30
Bromomethane	50.0	37.6		ug/L		75	23 - 165	15	50
Carbon disulfide	50.0	47.5		ug/L		95	54 - 132	3	30
Carbon tetrachloride	50.0	49.8		ug/L		100	70 - 130	0	30
Chlorobenzene	50.0	51.5		ug/L		103	70 - 130	1	30
Chlorodibromomethane	50.0	47.4		ug/L		95	70 - 130	0	50
Chloroethane	50.0	48.6		ug/L		97	56 - 152	6	40
Chloroform	50.0	48.7		ug/L		97	70 - 130	3	30
Chloromethane	50.0	58.8		ug/L		118	70 - 130	2	30
cis-1,2-Dichloroethene	50.0	49.0		ug/L		98	70 - 130	2	30
cis-1,3-Dichloropropene	50.0	55.0		ug/L		110	70 - 130	1	30
1,2-Dibromo-3-Chloropropane	50.0	52.3		ug/L		105	70 - 130	0	50
Dibromomethane	50.0	54.1		ug/L		108	70 - 130	1	30
Dichlorobromomethane	50.0	56.3		ug/L		113	70 - 130	2	30
Dichlorodifluoromethane	50.0	50.5		ug/L		101	44 - 146	0	50
1,1-Dichloroethane	50.0	53.9		ug/L		108	70 - 130	3	30
1,2-Dichloroethane	50.0	57.8		ug/L		116	70 - 130	2	30
1,1-Dichloroethene	50.0	51.1		ug/L		102	66 - 131	0	30
1,2-Dichloropropane	50.0	55.3		ug/L		111	70 - 130	2	30
Ethylbenzene	50.0	51.2		ug/L		102	70 - 130	1	30
Ethylene Dibromide	50.0	55.1		ug/L		110	70 - 130	2	30
2-Hexanone	100	100		ug/L		100	42 - 185	3	30
Methylene Chloride	50.0	46.5		ug/L		93	67 - 130	6	30
2-Butanone (MEK)	100	77.4		ug/L		77	49 - 172	2	30
4-Methyl-2-pentanone (MIBK)	100	104		ug/L		104	70 - 130	2	30
Styrene	50.0	54.4		ug/L		109	70 - 130	1	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-238252/5
Matrix: Water
Analysis Batch: 238252

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane			50.0	50.6		ug/L		101	70 - 130	1	30
1,1,2,2-Tetrachloroethane			50.0	55.2		ug/L		110	70 - 130	1	30
Tetrachloroethene			50.0	50.3		ug/L		101	70 - 130	3	30
Toluene			50.0	53.7		ug/L		107	70 - 130	2	30
trans-1,2-Dichloroethene			50.0	52.2		ug/L		104	70 - 130	1	30
trans-1,3-Dichloropropene			50.0	47.6		ug/L		95	70 - 130	1	50
1,1,1-Trichloroethane			50.0	62.3		ug/L		125	70 - 130	4	30
1,1,2-Trichloroethane			50.0	55.7		ug/L		111	70 - 130	3	30
Trichloroethene			50.0	53.8		ug/L		108	70 - 130	1	30
Trichlorofluoromethane			50.0	54.9		ug/L		110	55 - 156	1	30
1,2,3-Trichloropropane			50.0	52.8		ug/L		106	70 - 130	0	30
Vinyl acetate			100	108		ug/L		108	60 - 176	3	30
Vinyl chloride			50.0	50.0		ug/L		100	67 - 134	0	30
Xylenes, Total			150	154		ug/L		103	70 - 130	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*107*		*70 - 130*
Dibromofluoromethane	*99*		*70 - 130*
Toluene-d8 (Surr)	*107*		*70 - 130*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 680-238027/1-A
Matrix: Water
Analysis Batch: 238198

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 238027

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.020	U	0.020	0.0052	mg/L		05/21/12 17:58	05/23/12 00:45	1
Arsenic	0.020	U	0.020	0.010	mg/L		05/21/12 17:58	05/23/12 00:45	1
Barium	0.010	U	0.010	0.0020	mg/L		05/21/12 17:58	05/23/12 00:45	1
Beryllium	0.0040	U	0.0040	0.00010	mg/L		05/21/12 17:58	05/23/12 00:45	1
Cadmium	0.0050	U	0.0050	0.0020	mg/L		05/21/12 17:58	05/23/12 00:45	1
Chromium	0.010	U	0.010	0.0020	mg/L		05/21/12 17:58	05/23/12 00:45	1
Cobalt	0.010	U	0.010	0.0010	mg/L		05/21/12 17:58	05/23/12 00:45	1
Copper	0.020	U	0.020	0.0050	mg/L		05/21/12 17:58	05/23/12 00:45	1
Lead	0.010	U	0.010	0.0034	mg/L		05/21/12 17:58	05/23/12 00:45	1
Nickel	0.040	U	0.040	0.0040	mg/L		05/21/12 17:58	05/23/12 00:45	1
Selenium	0.020	U	0.020	0.0064	mg/L		05/21/12 17:58	05/23/12 00:45	1
Silver	0.010	U	0.010	0.00097	mg/L		05/21/12 17:58	05/23/12 00:45	1
Thallium	0.025	U	0.025	0.0087	mg/L		05/21/12 17:58	05/23/12 00:45	1
Tin	0.050	U	0.050	0.0054	mg/L		05/21/12 17:58	05/23/12 00:45	1
Vanadium	0.010	U	0.010	0.0030	mg/L		05/21/12 17:58	05/23/12 00:45	1
Zinc	0.020	U	0.020	0.0063	mg/L		05/21/12 17:58	05/23/12 00:45	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 680-238027/2-A
Matrix: Water
Analysis Batch: 238198

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 238027

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.490		mg/L		98	75 - 125
Arsenic	2.00	2.13		mg/L		107	75 - 125
Barium	2.00	2.10		mg/L		105	75 - 125
Beryllium	0.0500	0.0526		mg/L		105	75 - 125
Cadmium	0.0500	0.0517		mg/L		103	75 - 125
Chromium	0.200	0.208		mg/L		104	75 - 125
Cobalt	0.500	0.530		mg/L		106	75 - 125
Copper	0.250	0.269		mg/L		107	75 - 125
Lead	0.500	0.517		mg/L		103	75 - 125
Nickel	0.500	0.520		mg/L		104	75 - 125
Selenium	2.00	2.09		mg/L		104	75 - 125
Silver	0.0500	0.0522		mg/L		104	75 - 125
Thallium	2.00	2.17		mg/L		108	75 - 125
Tin	1.00	1.05		mg/L		105	75 - 125
Vanadium	0.500	0.515		mg/L		103	75 - 125
Zinc	0.500	0.515		mg/L		103	75 - 125

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-237779/1-A
Matrix: Water
Analysis Batch: 238210

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 237779

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020	0.000091	mg/L		05/18/12 10:12	05/22/12 11:59	1

Lab Sample ID: LCS 680-237779/2-A
Matrix: Water
Analysis Batch: 238210

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 237779

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00250	0.00242		mg/L		97	80 - 120

QC Association Summary

Client: Ashland Inc.
Project/Site: HERC Brunswick Ph 3 RFI - MW51- MAY 2012

TestAmerica Job ID: 680-79569-1

GC/MS VOA

Analysis Batch: 238252

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-79569-1	MW-51S	Total/NA	Water	8260B	
680-79569-2	MW-51I	Total/NA	Water	8260B	
680-79569-3	MW-51D	Total/NA	Water	8260B	
LCS 680-238252/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-238252/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-238252/8	Method Blank	Total/NA	Water	8260B	

Metals

Prep Batch: 237779

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-79569-1	MW-51S	Total/NA	Water	7470A	
680-79569-2	MW-51I	Total/NA	Water	7470A	
680-79569-3	MW-51D	Total/NA	Water	7470A	
LCS 680-237779/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 680-237779/1-A	Method Blank	Total/NA	Water	7470A	

Prep Batch: 238027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-79569-1	MW-51S	Total Recoverable	Water	3005A	
680-79569-2	MW-51I	Total Recoverable	Water	3005A	
680-79569-3	MW-51D	Total Recoverable	Water	3005A	
LCS 680-238027/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 680-238027/1-A	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 238198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-79569-1	MW-51S	Total Recoverable	Water	6010B	238027
680-79569-2	MW-51I	Total Recoverable	Water	6010B	238027
680-79569-3	MW-51D	Total Recoverable	Water	6010B	238027
LCS 680-238027/2-A	Lab Control Sample	Total Recoverable	Water	6010B	238027
MB 680-238027/1-A	Method Blank	Total Recoverable	Water	6010B	238027

Analysis Batch: 238210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-79569-1	MW-51S	Total/NA	Water	7470A	237779
680-79569-2	MW-51I	Total/NA	Water	7470A	237779
680-79569-3	MW-51D	Total/NA	Water	7470A	237779
LCS 680-237779/2-A	Lab Control Sample	Total/NA	Water	7470A	237779
MB 680-237779/1-A	Method Blank	Total/NA	Water	7470A	237779

Lab Chronicle

Client: Ashland Inc.
Project/Site: HERC Brunswick Ph 3 RFI - MW51- MAY 2012

TestAmerica Job ID: 680-79569-1

Client Sample ID: MW-51S

Lab Sample ID: 680-79569-1

Date Collected: 05/16/12 10:55
Matrix: Water
Date Received: 05/17/12 10:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	238252	05/23/12 14:17	RB	TAL SAV
Total Recoverable	Prep	3005A			238027	05/21/12 17:58	CDJ	TAL SAV
Total Recoverable	Analysis	6010B		1	238198	05/23/12 01:54	BCB	TAL SAV
Total/NA	Prep	7470A			237779	05/18/12 10:12	JKL	TAL SAV
Total/NA	Analysis	7470A		1	238210	05/22/12 13:19	JKL	TAL SAV

Client Sample ID: MW-51I

Lab Sample ID: 680-79569-2

Date Collected: 05/16/12 10:50
Matrix: Water
Date Received: 05/17/12 10:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	238252	05/23/12 14:45	RB	TAL SAV
Total Recoverable	Prep	3005A			238027	05/21/12 17:58	CDJ	TAL SAV
Total Recoverable	Analysis	6010B		1	238198	05/23/12 01:58	BCB	TAL SAV
Total/NA	Prep	7470A			237779	05/18/12 10:12	JKL	TAL SAV
Total/NA	Analysis	7470A		1	238210	05/22/12 13:23	JKL	TAL SAV

Client Sample ID: MW-51D

Lab Sample ID: 680-79569-3

Date Collected: 05/16/12 10:35
Matrix: Water
Date Received: 05/17/12 10:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	238252	05/23/12 15:14	RB	TAL SAV
Total Recoverable	Prep	3005A			238027	05/21/12 17:58	CDJ	TAL SAV
Total Recoverable	Analysis	6010B		1	238198	05/23/12 02:02	BCB	TAL SAV
Total/NA	Prep	7470A			237779	05/18/12 10:12	JKL	TAL SAV
Total/NA	Analysis	7470A		1	238210	05/22/12 13:27	JKL	TAL SAV

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Savannah
5102 LaRoche Avenue

Savannah, GA 31404
phone 912.354.7858 fax 912.352.0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Dean Salisbury	Site Contact: Tim Hassett	Date:	COC No:
Hercules, Inc.	Tel/Fax: 803-404-5901	Lab Contact: Lidya Guiliza	Carrier:	1 of 1 COCs

Analysis Turnaround Time
Calendar (C) or Work Days (W) _____
TAT if different from Below _____
☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day

Project Name: Semi-Annual GW Monitoring
Site: Former Hercules, Brunswick, Facility
P O #

Job No.

SDG No.

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	8260B-Appendix IX VOCs	8081B-Technical toxaphene, total area toxaphene (chlorinated camphene)	6010B-Appendix IX Metals	Sample Specific Notes:
MW-51S	1055	5/16/12	G	GW	4		✓		✓	
MW-51I	1050	5/16/12	G	↓	4		✓		✓	
MW-51D	1035	5/16/12	G	↓	4		✓		✓	

Preservation Used: 1= Ice, 2= HCl; 3= H_2SO_4; 4=HNO_3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant Poison B ☐ Unknown ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:
680-79564
2.2°/2.0°/4.2°/4.0°/4.0°

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	Antea	5/17/12 1000		TA	10:00
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
				TMSTA	05/17/12 1035

Login Sample Receipt Checklist

Client: Ashland Inc.

Job Number: 680-79569-1

Login Number: 79569

List Source: TestAmerica Savannah

List Number: 1

Creator: Barnett, Eddie T

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.2, 2.0, 4.2, 4.0, 4.0 C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	pH of container(s) is out of range: A1,A2,A3
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	Insufficient volume received for MS/MSD.
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Ashland Inc.
TestAmerica Job ID: 680-79569-1
Project/Site: HERC Brunswick Ph 3 RFI - MW51- MAY 2012

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Savannah	A2LA	DoD ELAP		0399-01
TestAmerica Savannah	A2LA	ISO/IEC 17025		399.01
TestAmerica Savannah	Alabama	State Program	4	41450
TestAmerica Savannah	Arkansas	State Program	6	N/A
TestAmerica Savannah	Arkansas DEQ	State Program	6	88-0692
TestAmerica Savannah	California	NELAC	9	3217CA
TestAmerica Savannah	Colorado	State Program	8	N/A
TestAmerica Savannah	Connecticut	State Program	1	PH-0161
TestAmerica Savannah	Florida	NELAC	4	E87052
TestAmerica Savannah	GA Dept. of Agriculture	State Program	4	N/A
TestAmerica Savannah	Georgia	State Program	4	803
TestAmerica Savannah	Georgia	State Program	4	N/A
TestAmerica Savannah	Guam	State Program	9	09-005r
TestAmerica Savannah	Hawaii	State Program	9	N/A
TestAmerica Savannah	Illinois	NELAC	5	200022
TestAmerica Savannah	Indiana	State Program	5	N/A
TestAmerica Savannah	Iowa	State Program	7	353
TestAmerica Savannah	Kentucky	State Program	4	90084
TestAmerica Savannah	Kentucky (UST)	State Program	4	18
TestAmerica Savannah	Louisiana	NELAC	6	30690
TestAmerica Savannah	Louisiana	NELAC	6	LA100015
TestAmerica Savannah	Maine	State Program	1	GA00006
TestAmerica Savannah	Maryland	State Program	3	250
TestAmerica Savannah	Massachusetts	State Program	1	M-GA006
TestAmerica Savannah	Michigan	State Program	5	9925
TestAmerica Savannah	Mississippi	State Program	4	N/A
TestAmerica Savannah	Montana	State Program	8	CERT0081
TestAmerica Savannah	Nebraska	State Program	7	TestAmerica-Savannah
TestAmerica Savannah	New Jersey	NELAC	2	GA769
TestAmerica Savannah	New Mexico	State Program	6	N/A
TestAmerica Savannah	New York	NELAC	2	10842
TestAmerica Savannah	North Carolina DENR	State Program	4	269
TestAmerica Savannah	North Carolina DHHS	State Program	4	13701
TestAmerica Savannah	Oklahoma	State Program	6	9984
TestAmerica Savannah	Pennsylvania	NELAC	3	68-00474
TestAmerica Savannah	Puerto Rico	State Program	2	GA00006
TestAmerica Savannah	Rhode Island	State Program	1	LAO00244
TestAmerica Savannah	South Carolina	State Program	4	98001
TestAmerica Savannah	Tennessee	State Program	4	TN02961
TestAmerica Savannah	Texas	NELAC	6	T104704185-08-TX
TestAmerica Savannah	USDA	Federal		SAV 3-04
TestAmerica Savannah	Vermont	State Program	1	87052
TestAmerica Savannah	Virginia	NELAC	3	460161
TestAmerica Savannah	Washington	State Program	10	C1794
TestAmerica Savannah	West Virginia	State Program	3	9950C
TestAmerica Savannah	West Virginia DEP	State Program	3	94
TestAmerica Savannah	Wisconsin	State Program	5	999819810
TestAmerica Savannah	Wyoming	State Program	8	8TMS-Q

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-79574-1
Client Project/Site: Brunswick Ph 3 RFI - MW-52 MAY 2012

For:
Ashland Inc.
Ashland Hercules Research Center
500 Hercules Rd Bldg 8139
Wilmington, Delaware 19808

Attn: Timothy Hassett

Authorized for release by:
6/6/2012 6:02:05 PM

Lidya Gulizia
Project Manager II
lidya.gulizia@testamericainc.com

cc: Tony Mancini

Table of Contents

Job ID: 680-79574-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Ashland Inc.

Project: Brunswick Ph 3 RFI - MW-52 MAY 2012

Report Number: 680-79574-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 05/17/2012; the samples arrived in good condition, properly preserved and on ice. The temperatures of the 5 coolers at receipt time were 2.0º C, 2.2º C, 4.0º C, 4.0º C and 4.2º C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples MW-52S (680-79574-1), MW-52I (680-79574-2), MW-52D (680-79574-3), Trip Blank 1 (680-79574-4), EB-1 (680-79574-5), EB-2 (680-79574-6), EB-3 (680-79574-7) and Trip Blank (680-79574-8) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 05/19/2012 and 05/20/2012.

The continuing calibration verification (CCV) for analytical batch(s) 237953 and 237899 exceeded average % Drift (%D) control criteria. These are in-house criteria established because limits for these compounds are not specified in the reference method. The %RSDs for all analytes of concern were within established in-house limits; therefore, the data have been reported.

No difficulties were encountered during the volatiles analyses.

All quality control parameters were within the acceptance limits.

PESTICIDES AND PCBS

Samples MW-52S (680-79574-1), MW-52I (680-79574-2), MW-52D (680-79574-3), EB-1 (680-79574-5), EB-2 (680-79574-6) and EB-3 (680-79574-7) were analyzed for Pesticides and PCBs in accordance with EPA SW846 Method 8081A_8082. The samples were prepared on 05/18/2012 and 05/28/2012 and analyzed on 05/25/2012, 05/31/2012 and 06/01/2012.

This method incorporates 2nd column confirmation. Corrective action is not taken for surrogate/spike compounds unless results from both columns are unacceptable. Results outside criteria are qualified.

Two surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample(s) contained an allowable number of surrogate compounds outside limits: EB-1 (680-79574-5), EB-2 (680-79574-6), EB-3 (680-79574-7), MW-52D (680-79574-3), MW-52I (680-79574-2), MW-52S (680-79574-1). These results have been reported and qualified.

No other difficulties were encountered during the Pesticides and PCBs analyses.

Job ID: 680-79574-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

All other quality control parameters were within the acceptance limits.

METALS (ICP)

Samples MW-52S (680-79574-1), MW-52I (680-79574-2), MW-52D (680-79574-3), EB-1 (680-79574-5), EB-2 (680-79574-6) and EB-3 (680-79574-7) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010B. The samples were prepared on 05/21/2012 and 05/23/2012 and analyzed on 05/23/2012 and 05/25/2012.

Selenium was detected in method blank MB 680-238189/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

No other difficulties were encountered during the metals analyses.

All other quality control parameters were within the acceptance limits.

TOTAL MERCURY

Samples MW-52S (680-79574-1), MW-52I (680-79574-2), MW-52D (680-79574-3), EB-1 (680-79574-5), EB-2 (680-79574-6) and EB-3 (680-79574-7) were analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 05/18/2012 and analyzed on 05/22/2012.

No difficulties were encountered during the mercury analyses.

All quality control parameters were within the acceptance limits.

Sample Summary

Client: Ashland Inc.
Project/Site: Brunswick Ph 3 RFI - MW-52 MAY 2012

TestAmerica Job ID: 680-79574-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-79574-1	MW-52S	Water	05/15/12 17:05	05/17/12 10:35
680-79574-2	MW-52I	Water	05/15/12 16:40	05/17/12 10:35
680-79574-3	MW-52D	Water	05/15/12 16:50	05/17/12 10:35
680-79574-4	Trip Blank 1	Water	05/15/12 00:00	05/17/12 10:35
680-79574-5	EB-1	Water	05/15/12 14:45	05/17/12 10:35
680-79574-6	EB-2	Water	05/15/12 15:00	05/17/12 10:35
680-79574-7	EB-3	Water	05/15/12 15:15	05/17/12 10:35
680-79574-8	Trip Blank	Water	05/15/12 00:00	05/17/12 10:35

Method Summary

Client: Ashland Inc.
Project/Site: Brunswick Ph 3 RFI - MW-52 MAY 2012

TestAmerica Job ID: 680-79574-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
8081A_8082	Organochlorine Pesticides & PCBs (GC)	SW846	TAL SAV
6010B	Metals (ICP)	SW846	TAL SAV
7470A	Mercury (CVAA)	SW846	TAL SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
X	Surrogate is outside control limits
U	Indicates the analyte was analyzed for but not detected.
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: Ashland Inc.
Project/Site: Brunswick Ph 3 RFI - MW-52 MAY 2012

TestAmerica Job ID: 680-79574-1

Client Sample ID: MW-52S — Lab Sample ID: 680-79574-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.025		0.010	0.0020	mg/L	1		6010B	Total Recoverable
Chromium	0.0043	J	0.010	0.0020	mg/L	1		6010B	Total Recoverable
Vanadium	0.0031	J	0.010	0.0030	mg/L	1		6010B	Total Recoverable

Client Sample ID: MW-52I — Lab Sample ID: 680-79574-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	0.12	J	1.0	0.11	ug/L	1		8260B	Total/NA
Barium	0.050		0.010	0.0020	mg/L	1		6010B	Total Recoverable
Beryllium	0.00013	J	0.0040	0.00010	mg/L	1		6010B	Total Recoverable
Chromium	0.0095	J	0.010	0.0020	mg/L	1		6010B	Total Recoverable
Vanadium	0.0090	J	0.010	0.0030	mg/L	1		6010B	Total Recoverable
Zinc	0.0093	J	0.020	0.0063	mg/L	1		6010B	Total Recoverable

Client Sample ID: MW-52D — Lab Sample ID: 680-79574-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	17		1.0	0.25	ug/L	1		8260B	Total/NA
Chlorobenzene	6.3		1.0	0.25	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	0.42	J	1.0	0.15	ug/L	1		8260B	Total/NA
1,2-Dichloropropane	0.42	J	1.0	0.13	ug/L	1		8260B	Total/NA
Ethylbenzene	6.1		1.0	0.11	ug/L	1		8260B	Total/NA
Toluene	0.61	J	1.0	0.33	ug/L	1		8260B	Total/NA
Xylenes, Total	17		2.0	0.20	ug/L	1		8260B	Total/NA
Toxaphene, TAUC, Parlar 11-69	0.88	J	4.7	0.47	ug/L	1		8081A_8082	Total/NA
Barium	0.45		0.010	0.0020	mg/L	1		6010B	Total Recoverable
Chromium	0.0022	J	0.010	0.0020	mg/L	1		6010B	Total Recoverable
Vanadium	0.0044	J	0.010	0.0030	mg/L	1		6010B	Total Recoverable

Client Sample ID: Trip Blank 1 — Lab Sample ID: 680-79574-4

No Detections

Client Sample ID: EB-1 — Lab Sample ID: 680-79574-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toxaphene, TAUC, Parlar 11-69	0.51	J	4.8	0.48	ug/L	1		8081A_8082	Total/NA

Client Sample ID: EB-2 — Lab Sample ID: 680-79574-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toxaphene, TAUC, Parlar 11-69	0.62	J	4.8	0.48	ug/L	1		8081A_8082	Total/NA

Client Sample ID: EB-3 — Lab Sample ID: 680-79574-7

Client Sample ID: EB-3 (Continued)

Lab Sample ID: 680-79574-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toxaphene, TAUC, Parlar 11-69	0.87	J	5.5	0.55	ug/L	1		8081A_8082	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 680-79574-8

No Detections

Client: Ashland Inc.
Project/Site: Brunswick Ph 3 RFI - MW-52 MAY 2012

TestAmerica Job ID: 680-79574-1

Client Sample ID: MW-52S
Date Collected: 05/15/12 17:05
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79574-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/20/12 23:52	1
Acetonitrile	40	U	40	10	ug/L			05/20/12 23:52	1
Acrolein	20	U	20	7.4	ug/L			05/20/12 23:52	1
Acrylonitrile	20	U	20	7.2	ug/L			05/20/12 23:52	1
Benzene	1.0	U	1.0	0.25	ug/L			05/20/12 23:52	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/20/12 23:52	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/20/12 23:52	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/20/12 23:52	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/20/12 23:52	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/20/12 23:52	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			05/20/12 23:52	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			05/20/12 23:52	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/20/12 23:52	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/20/12 23:52	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/20/12 23:52	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			05/20/12 23:52	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/20/12 23:52	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/20/12 23:52	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/20/12 23:52	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/20/12 23:52	1
Dichlorobromomethane	1.0	U	1.0	0.25	ug/L			05/20/12 23:52	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/20/12 23:52	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/20/12 23:52	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/20/12 23:52	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/20/12 23:52	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/20/12 23:52	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/20/12 23:52	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			05/20/12 23:52	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/20/12 23:52	1
2-Hexanone	10	U	10	1.0	ug/L			05/20/12 23:52	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/20/12 23:52	1
Isobutyl alcohol	40	U	40	11	ug/L			05/20/12 23:52	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/20/12 23:52	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/20/12 23:52	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			05/20/12 23:52	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/20/12 23:52	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/20/12 23:52	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/20/12 23:52	1
Propionitrile	20	U	20	4.6	ug/L			05/20/12 23:52	1
Styrene	1.0	U	1.0	0.11	ug/L			05/20/12 23:52	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/20/12 23:52	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/20/12 23:52	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/20/12 23:52	1
Toluene	1.0	U	1.0	0.33	ug/L			05/20/12 23:52	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/20/12 23:52	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/20/12 23:52	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/20/12 23:52	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/20/12 23:52	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/20/12 23:52	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			05/20/12 23:52	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/20/12 23:52	1

Client Sample ID: MW-52S
Date Collected: 05/15/12 17:05
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79574-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/20/12 23:52	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/20/12 23:52	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/20/12 23:52	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/20/12 23:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*70 - 130*		*05/20/12 23:52*	*1*
Dibromofluoromethane	*106*		*70 - 130*		*05/20/12 23:52*	*1*
Toluene-d8 (Surr)	*106*		*70 - 130*		*05/20/12 23:52*	*1*

Method: 8081A_8082 - Organochlorine Pesticides & PCBs (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene, Technical	4.9	U	4.9	0.49	ug/L		05/18/12 15:41	05/25/12 01:28	1
Toxaphene, TAUC, Parlar 11-69	4.9	U	4.9	0.49	ug/L		05/18/12 15:41	05/25/12 01:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*54*		*40 - 130*	*05/18/12 15:41*	*05/25/12 01:28*	*1*
DCB Decachlorobiphenyl	*32*	*p X*	*40 - 130*	*05/18/12 15:41*	*05/25/12 01:28*	*1*
Tetrachloro-m-xylene	*86*		*36 - 130*	*05/18/12 15:41*	*05/25/12 01:28*	*1*
Tetrachloro-m-xylene	*88*		*36 - 130*	*05/18/12 15:41*	*05/25/12 01:28*	*1*

Method: 8081A_8082 - Organochlorine Pesticides & PCBs (GC) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene, Technical	4.9	U H	4.9	0.49	ug/L		05/28/12 15:21	05/31/12 23:58	1
Toxaphene, TAUC, Parlar 11-69	4.9	U H	4.9	0.49	ug/L		05/28/12 15:21	05/31/12 23:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*18*	*X*	*40 - 130*	*05/28/12 15:21*	*05/31/12 23:58*	*1*
DCB Decachlorobiphenyl	*17*	*X*	*40 - 130*	*05/28/12 15:21*	*05/31/12 23:58*	*1*
Tetrachloro-m-xylene	*62*		*36 - 130*	*05/28/12 15:21*	*05/31/12 23:58*	*1*
Tetrachloro-m-xylene	*65*		*36 - 130*	*05/28/12 15:21*	*05/31/12 23:58*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.020	U	0.020	0.0052	mg/L		05/21/12 17:58	05/23/12 02:54	1
Arsenic	0.020	U	0.020	0.010	mg/L		05/21/12 17:58	05/23/12 02:54	1
Barium	**0.025**		0.010	0.0020	mg/L		05/21/12 17:58	05/23/12 02:54	1
Beryllium	0.0040	U	0.0040	0.00010	mg/L		05/21/12 17:58	05/23/12 02:54	1
Cadmium	0.0050	U	0.0050	0.0020	mg/L		05/21/12 17:58	05/23/12 02:54	1
Chromium	**0.0043**	**J**	0.010	0.0020	mg/L		05/21/12 17:58	05/23/12 02:54	1
Cobalt	0.010	U	0.010	0.0010	mg/L		05/21/12 17:58	05/23/12 02:54	1
Copper	0.020	U	0.020	0.0050	mg/L		05/21/12 17:58	05/23/12 02:54	1
Lead	0.010	U	0.010	0.0034	mg/L		05/21/12 17:58	05/23/12 02:54	1
Nickel	0.040	U	0.040	0.0040	mg/L		05/21/12 17:58	05/23/12 02:54	1
Selenium	0.020	U	0.020	0.0064	mg/L		05/21/12 17:58	05/23/12 02:54	1
Silver	0.010	U	0.010	0.00097	mg/L		05/21/12 17:58	05/23/12 02:54	1
Thallium	0.025	U	0.025	0.0087	mg/L		05/21/12 17:58	05/23/12 02:54	1
Tin	0.050	U	0.050	0.0054	mg/L		05/21/12 17:58	05/23/12 02:54	1
Vanadium	**0.0031**	**J**	0.010	0.0030	mg/L		05/21/12 17:58	05/23/12 02:54	1
Zinc	0.020	U	0.020	0.0063	mg/L		05/21/12 17:58	05/23/12 02:54	1

Client: Ashland Inc.
Project/Site: Brunswick Ph 3 RFI - MW-52 MAY 2012

TestAmerica Job ID: 680-79574-1

Client Sample ID: MW-52S
Date Collected: 05/15/12 17:05
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79574-1
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020	0.000091	mg/L		05/18/12 12:35	05/22/12 11:18	1

Client: Ashland Inc.
Project/Site: Brunswick Ph 3 RFI - MW-52 MAY 2012

TestAmerica Job ID: 680-79574-1

Client Sample ID: MW-52I
Date Collected: 05/15/12 16:40
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79574-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/19/12 15:26	1
Acetonitrile	40	U	40	10	ug/L			05/19/12 15:26	1
Acrolein	20	U	20	7.4	ug/L			05/19/12 15:26	1
Acrylonitrile	20	U	20	7.2	ug/L			05/19/12 15:26	1
Benzene	1.0	U	1.0	0.25	ug/L			05/19/12 15:26	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/19/12 15:26	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/19/12 15:26	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/19/12 15:26	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/19/12 15:26	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/19/12 15:26	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			05/19/12 15:26	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			05/19/12 15:26	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/19/12 15:26	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/19/12 15:26	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/19/12 15:26	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			05/19/12 15:26	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/19/12 15:26	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/19/12 15:26	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/19/12 15:26	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/19/12 15:26	1
Dichlorobromomethane	1.0	U	1.0	0.25	ug/L			05/19/12 15:26	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/19/12 15:26	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/19/12 15:26	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/19/12 15:26	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/19/12 15:26	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/19/12 15:26	1
Ethylbenzene	**0.12**	**J**	1.0	0.11	ug/L			05/19/12 15:26	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			05/19/12 15:26	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/19/12 15:26	1
2-Hexanone	10	U	10	1.0	ug/L			05/19/12 15:26	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/19/12 15:26	1
Isobutyl alcohol	40	U	40	11	ug/L			05/19/12 15:26	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/19/12 15:26	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/19/12 15:26	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			05/19/12 15:26	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/19/12 15:26	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/19/12 15:26	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/19/12 15:26	1
Propionitrile	20	U	20	4.6	ug/L			05/19/12 15:26	1
Styrene	1.0	U	1.0	0.11	ug/L			05/19/12 15:26	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/19/12 15:26	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/19/12 15:26	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/19/12 15:26	1
Toluene	1.0	U	1.0	0.33	ug/L			05/19/12 15:26	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/19/12 15:26	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/19/12 15:26	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/19/12 15:26	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/19/12 15:26	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/19/12 15:26	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			05/19/12 15:26	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/19/12 15:26	1

Client Sample ID: MW-52I
Date Collected: 05/15/12 16:40
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79574-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/19/12 15:26	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/19/12 15:26	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/19/12 15:26	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/19/12 15:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*70 - 130*		*05/19/12 15:26*	*1*
Dibromofluoromethane	*95*		*70 - 130*		*05/19/12 15:26*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*		*05/19/12 15:26*	*1*

Method: 8081A_8082 - Organochlorine Pesticides & PCBs (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene, Technical	4.7	U	4.7	0.47	ug/L		05/18/12 15:41	05/25/12 01:47	1
Toxaphene, TAUC, Parlar 11-69	4.7	U	4.7	0.47	ug/L		05/18/12 15:41	05/25/12 01:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*25*	*X*	*40 - 130*	*05/18/12 15:41*	*05/25/12 01:47*	*1*
DCB Decachlorobiphenyl	*23*	*X*	*40 - 130*	*05/18/12 15:41*	*05/25/12 01:47*	*1*
Tetrachloro-m-xylene	*64*		*36 - 130*	*05/18/12 15:41*	*05/25/12 01:47*	*1*
Tetrachloro-m-xylene	*61*		*36 - 130*	*05/18/12 15:41*	*05/25/12 01:47*	*1*

Method: 8081A_8082 - Organochlorine Pesticides & PCBs (GC) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene, Technical	4.7	U H	4.7	0.47	ug/L		05/28/12 15:21	06/01/12 00:17	1
Toxaphene, TAUC, Parlar 11-69	4.7	U H	4.7	0.47	ug/L		05/28/12 15:21	06/01/12 00:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*22*	*X*	*40 - 130*	*05/28/12 15:21*	*06/01/12 00:17*	*1*
DCB Decachlorobiphenyl	*20*	*X*	*40 - 130*	*05/28/12 15:21*	*06/01/12 00:17*	*1*
Tetrachloro-m-xylene	*75*		*36 - 130*	*05/28/12 15:21*	*06/01/12 00:17*	*1*
Tetrachloro-m-xylene	*75*		*36 - 130*	*05/28/12 15:21*	*06/01/12 00:17*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.020	U	0.020	0.0052	mg/L		05/21/12 17:58	05/23/12 02:58	1
Arsenic	0.020	U	0.020	0.010	mg/L		05/21/12 17:58	05/23/12 02:58	1
Barium	**0.050**		0.010	0.0020	mg/L		05/21/12 17:58	05/23/12 02:58	1
Beryllium	**0.00013**	**J**	0.0040	0.00010	mg/L		05/21/12 17:58	05/23/12 02:58	1
Cadmium	0.0050	U	0.0050	0.0020	mg/L		05/21/12 17:58	05/23/12 02:58	1
Chromium	**0.0095**	**J**	0.010	0.0020	mg/L		05/21/12 17:58	05/23/12 02:58	1
Cobalt	0.010	U	0.010	0.0010	mg/L		05/21/12 17:58	05/23/12 02:58	1
Copper	0.020	U	0.020	0.0050	mg/L		05/21/12 17:58	05/23/12 02:58	1
Lead	0.010	U	0.010	0.0034	mg/L		05/21/12 17:58	05/23/12 02:58	1
Nickel	0.040	U	0.040	0.0040	mg/L		05/21/12 17:58	05/23/12 02:58	1
Selenium	0.020	U	0.020	0.0064	mg/L		05/21/12 17:58	05/23/12 02:58	1
Silver	0.010	U	0.010	0.00097	mg/L		05/21/12 17:58	05/23/12 02:58	1
Thallium	0.025	U	0.025	0.0087	mg/L		05/21/12 17:58	05/23/12 02:58	1
Tin	0.050	U	0.050	0.0054	mg/L		05/21/12 17:58	05/23/12 02:58	1
Vanadium	**0.0090**	**J**	0.010	0.0030	mg/L		05/21/12 17:58	05/23/12 02:58	1
Zinc	**0.0093**	**J**	0.020	0.0063	mg/L		05/21/12 17:58	05/23/12 02:58	1

Client: Ashland Inc.
Project/Site: Brunswick Ph 3 RFI - MW-52 MAY 2012

TestAmerica Job ID: 680-79574-1

Client Sample ID: MW-52I
Date Collected: 05/15/12 16:40
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79574-2
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020	0.000091	mg/L		05/18/12 12:35	05/22/12 11:21	1

Client: Ashland Inc.
Project/Site: Brunswick Ph 3 RFI - MW-52 MAY 2012

TestAmerica Job ID: 680-79574-1

Client Sample ID: MW-52D
Date Collected: 05/15/12 16:50
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79574-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/19/12 15:55	1
Acetonitrile	40	U	40	10	ug/L			05/19/12 15:55	1
Acrolein	20	U	20	7.4	ug/L			05/19/12 15:55	1
Acrylonitrile	20	U	20	7.2	ug/L			05/19/12 15:55	1
Benzene	**17**		1.0	0.25	ug/L			05/19/12 15:55	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/19/12 15:55	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/19/12 15:55	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/19/12 15:55	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/19/12 15:55	1
Chlorobenzene	**6.3**		1.0	0.25	ug/L			05/19/12 15:55	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			05/19/12 15:55	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			05/19/12 15:55	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/19/12 15:55	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/19/12 15:55	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/19/12 15:55	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			05/19/12 15:55	1
cis-1,2-Dichloroethene	**0.42**	**J**	1.0	0.15	ug/L			05/19/12 15:55	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/19/12 15:55	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/19/12 15:55	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/19/12 15:55	1
Dichlorobromomethane	1.0	U	1.0	0.25	ug/L			05/19/12 15:55	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/19/12 15:55	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/19/12 15:55	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/19/12 15:55	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/19/12 15:55	1
1,2-Dichloropropane	**0.42**	**J**	1.0	0.13	ug/L			05/19/12 15:55	1
Ethylbenzene	**6.1**		1.0	0.11	ug/L			05/19/12 15:55	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			05/19/12 15:55	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/19/12 15:55	1
2-Hexanone	10	U	10	1.0	ug/L			05/19/12 15:55	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/19/12 15:55	1
Isobutyl alcohol	40	U	40	11	ug/L			05/19/12 15:55	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/19/12 15:55	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/19/12 15:55	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			05/19/12 15:55	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/19/12 15:55	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/19/12 15:55	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/19/12 15:55	1
Propionitrile	20	U	20	4.6	ug/L			05/19/12 15:55	1
Styrene	1.0	U	1.0	0.11	ug/L			05/19/12 15:55	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/19/12 15:55	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/19/12 15:55	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/19/12 15:55	1
Toluene	**0.61**	**J**	1.0	0.33	ug/L			05/19/12 15:55	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/19/12 15:55	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/19/12 15:55	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/19/12 15:55	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/19/12 15:55	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/19/12 15:55	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			05/19/12 15:55	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/19/12 15:55	1

Client Sample ID: MW-52D
Date Collected: 05/15/12 16:50
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79574-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/19/12 15:55	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/19/12 15:55	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/19/12 15:55	1
Xylenes, Total	**17**		2.0	0.20	ug/L			05/19/12 15:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*70 - 130*		*05/19/12 15:55*	*1*
Dibromofluoromethane	*92*		*70 - 130*		*05/19/12 15:55*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*05/19/12 15:55*	*1*

Method: 8081A_8082 - Organochlorine Pesticides & PCBs (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene, Technical	4.7	U	4.7	0.47	ug/L		05/18/12 15:41	05/25/12 02:07	1
Toxaphene, TAUC, Parlar 11-69	**0.88**	**J**	4.7	0.47	ug/L		05/18/12 15:41	05/25/12 02:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*32*	*X*	*40 - 130*	*05/18/12 15:41*	*05/25/12 02:07*	*1*
DCB Decachlorobiphenyl	*25*	*X*	*40 - 130*	*05/18/12 15:41*	*05/25/12 02:07*	*1*
Tetrachloro-m-xylene	*106*		*36 - 130*	*05/18/12 15:41*	*05/25/12 02:07*	*1*
Tetrachloro-m-xylene	*103*		*36 - 130*	*05/18/12 15:41*	*05/25/12 02:07*	*1*

Method: 8081A_8082 - Organochlorine Pesticides & PCBs (GC) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene, Technical	4.7	U H	4.7	0.47	ug/L		05/28/12 15:21	06/01/12 00:37	1
Toxaphene, TAUC, Parlar 11-69	4.7	U H	4.7	0.47	ug/L		05/28/12 15:21	06/01/12 00:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*22*	*X*	*40 - 130*	*05/28/12 15:21*	*06/01/12 00:37*	*1*
DCB Decachlorobiphenyl	*14*	*X*	*40 - 130*	*05/28/12 15:21*	*06/01/12 00:37*	*1*
Tetrachloro-m-xylene	*142*	*X*	*36 - 130*	*05/28/12 15:21*	*06/01/12 00:37*	*1*
Tetrachloro-m-xylene	*106*		*36 - 130*	*05/28/12 15:21*	*06/01/12 00:37*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.020	U	0.020	0.0052	mg/L		05/23/12 08:39	05/25/12 11:17	1
Arsenic	0.020	U	0.020	0.010	mg/L		05/23/12 08:39	05/25/12 11:17	1
Barium	**0.45**		0.010	0.0020	mg/L		05/23/12 08:39	05/25/12 11:17	1
Beryllium	0.0040	U	0.0040	0.00010	mg/L		05/23/12 08:39	05/25/12 11:17	1
Cadmium	0.0050	U	0.0050	0.0020	mg/L		05/23/12 08:39	05/25/12 11:17	1
Chromium	**0.0022**	**J**	0.010	0.0020	mg/L		05/23/12 08:39	05/25/12 11:17	1
Cobalt	0.010	U	0.010	0.0010	mg/L		05/23/12 08:39	05/25/12 11:17	1
Copper	0.020	U	0.020	0.0050	mg/L		05/23/12 08:39	05/25/12 11:17	1
Lead	0.010	U	0.010	0.0034	mg/L		05/23/12 08:39	05/25/12 11:17	1
Nickel	0.040	U	0.040	0.0040	mg/L		05/23/12 08:39	05/25/12 11:17	1
Selenium	0.020	U	0.020	0.0064	mg/L		05/23/12 08:39	05/25/12 11:17	1
Silver	0.010	U	0.010	0.00097	mg/L		05/23/12 08:39	05/25/12 11:17	1
Thallium	0.025	U	0.025	0.0087	mg/L		05/23/12 08:39	05/25/12 11:17	1
Tin	0.050	U	0.050	0.0054	mg/L		05/23/12 08:39	05/25/12 11:17	1
Vanadium	**0.0044**	**J**	0.010	0.0030	mg/L		05/23/12 08:39	05/25/12 11:17	1
Zinc	0.020	U	0.020	0.0063	mg/L		05/23/12 08:39	05/25/12 11:17	1

Client: Ashland Inc.
Project/Site: Brunswick Ph 3 RFI - MW-52 MAY 2012

TestAmerica Job ID: 680-79574-1

Client Sample ID: MW-52D
Date Collected: 05/15/12 16:50
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79574-3
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020	0.000091	mg/L		05/18/12 12:35	05/22/12 11:25	1

Client: Ashland Inc.
Project/Site: Brunswick Ph 3 RFI - MW-52 MAY 2012

TestAmerica Job ID: 680-79574-1

Client Sample ID: Trip Blank 1
Date Collected: 05/15/12 00:00
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79574-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/19/12 10:25	1
Acetonitrile	40	U	40	10	ug/L			05/19/12 10:25	1
Acrolein	20	U	20	7.4	ug/L			05/19/12 10:25	1
Acrylonitrile	20	U	20	7.2	ug/L			05/19/12 10:25	1
Benzene	1.0	U	1.0	0.25	ug/L			05/19/12 10:25	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/19/12 10:25	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/19/12 10:25	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/19/12 10:25	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/19/12 10:25	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/19/12 10:25	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			05/19/12 10:25	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			05/19/12 10:25	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/19/12 10:25	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/19/12 10:25	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/19/12 10:25	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			05/19/12 10:25	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/19/12 10:25	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/19/12 10:25	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/19/12 10:25	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/19/12 10:25	1
Dichlorobromomethane	1.0	U	1.0	0.25	ug/L			05/19/12 10:25	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/19/12 10:25	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/19/12 10:25	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/19/12 10:25	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/19/12 10:25	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/19/12 10:25	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/19/12 10:25	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			05/19/12 10:25	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/19/12 10:25	1
2-Hexanone	10	U	10	1.0	ug/L			05/19/12 10:25	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/19/12 10:25	1
Isobutyl alcohol	40	U	40	11	ug/L			05/19/12 10:25	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/19/12 10:25	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/19/12 10:25	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			05/19/12 10:25	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/19/12 10:25	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/19/12 10:25	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/19/12 10:25	1
Propionitrile	20	U	20	4.6	ug/L			05/19/12 10:25	1
Styrene	1.0	U	1.0	0.11	ug/L			05/19/12 10:25	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/19/12 10:25	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/19/12 10:25	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/19/12 10:25	1
Toluene	1.0	U	1.0	0.33	ug/L			05/19/12 10:25	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/19/12 10:25	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/19/12 10:25	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/19/12 10:25	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/19/12 10:25	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/19/12 10:25	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			05/19/12 10:25	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/19/12 10:25	1

Client: Ashland Inc.
Project/Site: Brunswick Ph 3 RFI - MW-52 MAY 2012

TestAmerica Job ID: 680-79574-1

Client Sample ID: Trip Blank 1
Date Collected: 05/15/12 00:00
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79574-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/19/12 10:25	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/19/12 10:25	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/19/12 10:25	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/19/12 10:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*70 - 130*		*05/19/12 10:25*	*1*
Dibromofluoromethane	*107*		*70 - 130*		*05/19/12 10:25*	*1*
Toluene-d8 (Surr)	*107*		*70 - 130*		*05/19/12 10:25*	*1*

Client: Ashland Inc.
Project/Site: Brunswick Ph 3 RFI - MW-52 MAY 2012

TestAmerica Job ID: 680-79574-1

Client Sample ID: EB-1
Date Collected: 05/15/12 14:45
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79574-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/19/12 11:23	1
Acetonitrile	40	U	40	10	ug/L			05/19/12 11:23	1
Acrolein	20	U	20	7.4	ug/L			05/19/12 11:23	1
Acrylonitrile	20	U	20	7.2	ug/L			05/19/12 11:23	1
Benzene	1.0	U	1.0	0.25	ug/L			05/19/12 11:23	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/19/12 11:23	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/19/12 11:23	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/19/12 11:23	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/19/12 11:23	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/19/12 11:23	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			05/19/12 11:23	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			05/19/12 11:23	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/19/12 11:23	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/19/12 11:23	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/19/12 11:23	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			05/19/12 11:23	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/19/12 11:23	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/19/12 11:23	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/19/12 11:23	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/19/12 11:23	1
Dichlorobromomethane	1.0	U	1.0	0.25	ug/L			05/19/12 11:23	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/19/12 11:23	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/19/12 11:23	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/19/12 11:23	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/19/12 11:23	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/19/12 11:23	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/19/12 11:23	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			05/19/12 11:23	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/19/12 11:23	1
2-Hexanone	10	U	10	1.0	ug/L			05/19/12 11:23	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/19/12 11:23	1
Isobutyl alcohol	40	U	40	11	ug/L			05/19/12 11:23	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/19/12 11:23	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/19/12 11:23	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			05/19/12 11:23	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/19/12 11:23	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/19/12 11:23	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/19/12 11:23	1
Propionitrile	20	U	20	4.6	ug/L			05/19/12 11:23	1
Styrene	1.0	U	1.0	0.11	ug/L			05/19/12 11:23	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/19/12 11:23	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/19/12 11:23	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/19/12 11:23	1
Toluene	1.0	U	1.0	0.33	ug/L			05/19/12 11:23	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/19/12 11:23	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/19/12 11:23	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/19/12 11:23	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/19/12 11:23	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/19/12 11:23	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			05/19/12 11:23	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/19/12 11:23	1

Client Sample ID: EB-1

Date Collected: 05/15/12 14:45
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79574-5

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/19/12 11:23	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/19/12 11:23	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/19/12 11:23	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/19/12 11:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*70 - 130*		*05/19/12 11:23*	*1*
Dibromofluoromethane	*108*		*70 - 130*		*05/19/12 11:23*	*1*
Toluene-d8 (Surr)	*106*		*70 - 130*		*05/19/12 11:23*	*1*

Method: 8081A_8082 - Organochlorine Pesticides & PCBs (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene, Technical	4.8	U	4.8	0.48	ug/L		05/18/12 15:41	05/25/12 02:26	1
Toxaphene, TAUC, Parlar 11-69	**0.51**	**J**	4.8	0.48	ug/L		05/18/12 15:41	05/25/12 02:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*19*	*p X*	*40 - 130*	*05/18/12 15:41*	*05/25/12 02:26*	*1*
DCB Decachlorobiphenyl	*37*	*X*	*40 - 130*	*05/18/12 15:41*	*05/25/12 02:26*	*1*
Tetrachloro-m-xylene	*56*		*36 - 130*	*05/18/12 15:41*	*05/25/12 02:26*	*1*
Tetrachloro-m-xylene	*67*		*36 - 130*	*05/18/12 15:41*	*05/25/12 02:26*	*1*

Method: 8081A_8082 - Organochlorine Pesticides & PCBs (GC) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene, Technical	5.2	U H	5.2	0.52	ug/L		05/28/12 15:21	06/01/12 00:56	1
Toxaphene, TAUC, Parlar 11-69	5.2	U H	5.2	0.52	ug/L		05/28/12 15:21	06/01/12 00:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*31*	*X*	*40 - 130*	*05/28/12 15:21*	*06/01/12 00:56*	*1*
DCB Decachlorobiphenyl	*29*	*X*	*40 - 130*	*05/28/12 15:21*	*06/01/12 00:56*	*1*
Tetrachloro-m-xylene	*75*		*36 - 130*	*05/28/12 15:21*	*06/01/12 00:56*	*1*
Tetrachloro-m-xylene	*78*		*36 - 130*	*05/28/12 15:21*	*06/01/12 00:56*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.020	U	0.020	0.0052	mg/L		05/23/12 08:39	05/25/12 11:22	1
Arsenic	0.020	U	0.020	0.010	mg/L		05/23/12 08:39	05/25/12 11:22	1
Barium	0.010	U	0.010	0.0020	mg/L		05/23/12 08:39	05/25/12 11:22	1
Beryllium	0.0040	U	0.0040	0.00010	mg/L		05/23/12 08:39	05/25/12 11:22	1
Cadmium	0.0050	U	0.0050	0.0020	mg/L		05/23/12 08:39	05/25/12 11:22	1
Chromium	0.010	U	0.010	0.0020	mg/L		05/23/12 08:39	05/25/12 11:22	1
Cobalt	0.010	U	0.010	0.0010	mg/L		05/23/12 08:39	05/25/12 11:22	1
Copper	0.020	U	0.020	0.0050	mg/L		05/23/12 08:39	05/25/12 11:22	1
Lead	0.010	U	0.010	0.0034	mg/L		05/23/12 08:39	05/25/12 11:22	1
Nickel	0.040	U	0.040	0.0040	mg/L		05/23/12 08:39	05/25/12 11:22	1
Selenium	0.020	U	0.020	0.0064	mg/L		05/23/12 08:39	05/25/12 11:22	1
Silver	0.010	U	0.010	0.00097	mg/L		05/23/12 08:39	05/25/12 11:22	1
Thallium	0.025	U	0.025	0.0087	mg/L		05/23/12 08:39	05/25/12 11:22	1
Tin	0.050	U	0.050	0.0054	mg/L		05/23/12 08:39	05/25/12 11:22	1
Vanadium	0.010	U	0.010	0.0030	mg/L		05/23/12 08:39	05/25/12 11:22	1
Zinc	0.020	U	0.020	0.0063	mg/L		05/23/12 08:39	05/25/12 11:22	1

Client: Ashland Inc.
Project/Site: Brunswick Ph 3 RFI - MW-52 MAY 2012

TestAmerica Job ID: 680-79574-1

Client Sample ID: EB-1
Date Collected: 05/15/12 14:45
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79574-5
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020	0.000091	mg/L		05/18/12 12:35	05/22/12 11:28	1

Client Sample ID: EB-2
Date Collected: 05/15/12 15:00
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79574-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/19/12 11:51	1
Acetonitrile	40	U	40	10	ug/L			05/19/12 11:51	1
Acrolein	20	U	20	7.4	ug/L			05/19/12 11:51	1
Acrylonitrile	20	U	20	7.2	ug/L			05/19/12 11:51	1
Benzene	1.0	U	1.0	0.25	ug/L			05/19/12 11:51	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/19/12 11:51	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/19/12 11:51	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/19/12 11:51	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/19/12 11:51	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/19/12 11:51	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			05/19/12 11:51	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			05/19/12 11:51	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/19/12 11:51	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/19/12 11:51	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/19/12 11:51	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			05/19/12 11:51	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/19/12 11:51	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/19/12 11:51	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/19/12 11:51	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/19/12 11:51	1
Dichlorobromomethane	1.0	U	1.0	0.25	ug/L			05/19/12 11:51	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/19/12 11:51	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/19/12 11:51	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/19/12 11:51	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/19/12 11:51	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/19/12 11:51	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/19/12 11:51	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			05/19/12 11:51	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/19/12 11:51	1
2-Hexanone	10	U	10	1.0	ug/L			05/19/12 11:51	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/19/12 11:51	1
Isobutyl alcohol	40	U	40	11	ug/L			05/19/12 11:51	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/19/12 11:51	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/19/12 11:51	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			05/19/12 11:51	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/19/12 11:51	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/19/12 11:51	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/19/12 11:51	1
Propionitrile	20	U	20	4.6	ug/L			05/19/12 11:51	1
Styrene	1.0	U	1.0	0.11	ug/L			05/19/12 11:51	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/19/12 11:51	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/19/12 11:51	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/19/12 11:51	1
Toluene	1.0	U	1.0	0.33	ug/L			05/19/12 11:51	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/19/12 11:51	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/19/12 11:51	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/19/12 11:51	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/19/12 11:51	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/19/12 11:51	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			05/19/12 11:51	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/19/12 11:51	1

Client Sample ID: EB-2
Date Collected: 05/15/12 15:00
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79574-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/19/12 11:51	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/19/12 11:51	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/19/12 11:51	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/19/12 11:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*91*		*70 - 130*		*05/19/12 11:51*	*1*
Dibromofluoromethane	*107*		*70 - 130*		*05/19/12 11:51*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*		*05/19/12 11:51*	*1*

Method: 8081A_8082 - Organochlorine Pesticides & PCBs (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene, Technical	4.8	U	4.8	0.48	ug/L		05/18/12 15:41	05/25/12 02:45	1
Toxaphene, TAUC, Parlar 11-69	**0.62**	**J**	4.8	0.48	ug/L		05/18/12 15:41	05/25/12 02:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*19*	*X*	*40 - 130*	*05/18/12 15:41*	*05/25/12 02:45*	*1*
DCB Decachlorobiphenyl	*17*	*X*	*40 - 130*	*05/18/12 15:41*	*05/25/12 02:45*	*1*
Tetrachloro-m-xylene	*65*		*36 - 130*	*05/18/12 15:41*	*05/25/12 02:45*	*1*
Tetrachloro-m-xylene	*62*		*36 - 130*	*05/18/12 15:41*	*05/25/12 02:45*	*1*

Method: 8081A_8082 - Organochlorine Pesticides & PCBs (GC) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene, Technical	4.9	U H	4.9	0.49	ug/L		05/28/12 15:21	06/01/12 01:15	1
Toxaphene, TAUC, Parlar 11-69	4.9	U H	4.9	0.49	ug/L		05/28/12 15:21	06/01/12 01:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*52*		*40 - 130*	*05/28/12 15:21*	*06/01/12 01:15*	*1*
DCB Decachlorobiphenyl	*50*		*40 - 130*	*05/28/12 15:21*	*06/01/12 01:15*	*1*
Tetrachloro-m-xylene	*80*		*36 - 130*	*05/28/12 15:21*	*06/01/12 01:15*	*1*
Tetrachloro-m-xylene	*78*		*36 - 130*	*05/28/12 15:21*	*06/01/12 01:15*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.020	U	0.020	0.0052	mg/L		05/23/12 08:39	05/25/12 11:26	1
Arsenic	0.020	U	0.020	0.010	mg/L		05/23/12 08:39	05/25/12 11:26	1
Barium	0.010	U	0.010	0.0020	mg/L		05/23/12 08:39	05/25/12 11:26	1
Beryllium	0.0040	U	0.0040	0.00010	mg/L		05/23/12 08:39	05/25/12 11:26	1
Cadmium	0.0050	U	0.0050	0.0020	mg/L		05/23/12 08:39	05/25/12 11:26	1
Chromium	0.010	U	0.010	0.0020	mg/L		05/23/12 08:39	05/25/12 11:26	1
Cobalt	0.010	U	0.010	0.0010	mg/L		05/23/12 08:39	05/25/12 11:26	1
Copper	0.020	U	0.020	0.0050	mg/L		05/23/12 08:39	05/25/12 11:26	1
Lead	0.010	U	0.010	0.0034	mg/L		05/23/12 08:39	05/25/12 11:26	1
Nickel	0.040	U	0.040	0.0040	mg/L		05/23/12 08:39	05/25/12 11:26	1
Selenium	0.020	U	0.020	0.0064	mg/L		05/23/12 08:39	05/25/12 11:26	1
Silver	0.010	U	0.010	0.00097	mg/L		05/23/12 08:39	05/25/12 11:26	1
Thallium	0.025	U	0.025	0.0087	mg/L		05/23/12 08:39	05/25/12 11:26	1
Tin	0.050	U	0.050	0.0054	mg/L		05/23/12 08:39	05/25/12 11:26	1
Vanadium	0.010	U	0.010	0.0030	mg/L		05/23/12 08:39	05/25/12 11:26	1
Zinc	0.020	U	0.020	0.0063	mg/L		05/23/12 08:39	05/25/12 11:26	1

Client: Ashland Inc.
Project/Site: Brunswick Ph 3 RFI - MW-52 MAY 2012

TestAmerica Job ID: 680-79574-1

Client Sample ID: EB-2
Date Collected: 05/15/12 15:00
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79574-6
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020	0.000091	mg/L		05/18/12 12:35	05/22/12 11:32	1

Client: Ashland Inc.
Project/Site: Brunswick Ph 3 RFI - MW-52 MAY 2012

TestAmerica Job ID: 680-79574-1

Client Sample ID: EB-3
Date Collected: 05/15/12 15:15
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79574-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/19/12 12:20	1
Acetonitrile	40	U	40	10	ug/L			05/19/12 12:20	1
Acrolein	20	U	20	7.4	ug/L			05/19/12 12:20	1
Acrylonitrile	20	U	20	7.2	ug/L			05/19/12 12:20	1
Benzene	1.0	U	1.0	0.25	ug/L			05/19/12 12:20	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/19/12 12:20	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/19/12 12:20	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/19/12 12:20	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/19/12 12:20	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/19/12 12:20	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			05/19/12 12:20	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			05/19/12 12:20	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/19/12 12:20	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/19/12 12:20	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/19/12 12:20	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			05/19/12 12:20	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/19/12 12:20	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/19/12 12:20	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/19/12 12:20	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/19/12 12:20	1
Dichlorobromomethane	1.0	U	1.0	0.25	ug/L			05/19/12 12:20	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/19/12 12:20	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/19/12 12:20	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/19/12 12:20	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/19/12 12:20	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/19/12 12:20	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/19/12 12:20	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			05/19/12 12:20	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/19/12 12:20	1
2-Hexanone	10	U	10	1.0	ug/L			05/19/12 12:20	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/19/12 12:20	1
Isobutyl alcohol	40	U	40	11	ug/L			05/19/12 12:20	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/19/12 12:20	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/19/12 12:20	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			05/19/12 12:20	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/19/12 12:20	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/19/12 12:20	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/19/12 12:20	1
Propionitrile	20	U	20	4.6	ug/L			05/19/12 12:20	1
Styrene	1.0	U	1.0	0.11	ug/L			05/19/12 12:20	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/19/12 12:20	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/19/12 12:20	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/19/12 12:20	1
Toluene	1.0	U	1.0	0.33	ug/L			05/19/12 12:20	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/19/12 12:20	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/19/12 12:20	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/19/12 12:20	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/19/12 12:20	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/19/12 12:20	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			05/19/12 12:20	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/19/12 12:20	1

Client Sample ID: EB-3
Date Collected: 05/15/12 15:15
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79574-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/19/12 12:20	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/19/12 12:20	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/19/12 12:20	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/19/12 12:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*70 - 130*		*05/19/12 12:20*	*1*
Dibromofluoromethane	*107*		*70 - 130*		*05/19/12 12:20*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*		*05/19/12 12:20*	*1*

Method: 8081A_8082 - Organochlorine Pesticides & PCBs (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene, Technical	5.5	U	5.5	0.55	ug/L		05/18/12 15:41	05/25/12 03:05	1
Toxaphene, TAUC, Parlar 11-69	**0.87**	**J**	5.5	0.55	ug/L		05/18/12 15:41	05/25/12 03:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*37*	*X*	*40 - 130*	*05/18/12 15:41*	*05/25/12 03:05*	*1*
DCB Decachlorobiphenyl	*25*	*X*	*40 - 130*	*05/18/12 15:41*	*05/25/12 03:05*	*1*
Tetrachloro-m-xylene	*78*		*36 - 130*	*05/18/12 15:41*	*05/25/12 03:05*	*1*
Tetrachloro-m-xylene	*64*		*36 - 130*	*05/18/12 15:41*	*05/25/12 03:05*	*1*

Method: 8081A_8082 - Organochlorine Pesticides & PCBs (GC) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene, Technical	5.0	U H	5.0	0.50	ug/L		05/28/12 15:21	06/01/12 01:35	1
Toxaphene, TAUC, Parlar 11-69	5.0	U H	5.0	0.50	ug/L		05/28/12 15:21	06/01/12 01:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*53*		*40 - 130*	*05/28/12 15:21*	*06/01/12 01:35*	*1*
DCB Decachlorobiphenyl	*50*		*40 - 130*	*05/28/12 15:21*	*06/01/12 01:35*	*1*
Tetrachloro-m-xylene	*81*		*36 - 130*	*05/28/12 15:21*	*06/01/12 01:35*	*1*
Tetrachloro-m-xylene	*79*		*36 - 130*	*05/28/12 15:21*	*06/01/12 01:35*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.020	U	0.020	0.0052	mg/L		05/23/12 08:39	05/25/12 11:30	1
Arsenic	0.020	U	0.020	0.010	mg/L		05/23/12 08:39	05/25/12 11:30	1
Barium	0.010	U	0.010	0.0020	mg/L		05/23/12 08:39	05/25/12 11:30	1
Beryllium	0.0040	U	0.0040	0.00010	mg/L		05/23/12 08:39	05/25/12 11:30	1
Cadmium	0.0050	U	0.0050	0.0020	mg/L		05/23/12 08:39	05/25/12 11:30	1
Chromium	0.010	U	0.010	0.0020	mg/L		05/23/12 08:39	05/25/12 11:30	1
Cobalt	0.010	U	0.010	0.0010	mg/L		05/23/12 08:39	05/25/12 11:30	1
Copper	0.020	U	0.020	0.0050	mg/L		05/23/12 08:39	05/25/12 11:30	1
Lead	0.010	U	0.010	0.0034	mg/L		05/23/12 08:39	05/25/12 11:30	1
Nickel	0.040	U	0.040	0.0040	mg/L		05/23/12 08:39	05/25/12 11:30	1
Selenium	0.020	U	0.020	0.0064	mg/L		05/23/12 08:39	05/25/12 11:30	1
Silver	0.010	U	0.010	0.00097	mg/L		05/23/12 08:39	05/25/12 11:30	1
Thallium	0.025	U	0.025	0.0087	mg/L		05/23/12 08:39	05/25/12 11:30	1
Tin	0.050	U	0.050	0.0054	mg/L		05/23/12 08:39	05/25/12 11:30	1
Vanadium	0.010	U	0.010	0.0030	mg/L		05/23/12 08:39	05/25/12 11:30	1
Zinc	0.020	U	0.020	0.0063	mg/L		05/23/12 08:39	05/25/12 11:30	1

Client: Ashland Inc.
Project/Site: Brunswick Ph 3 RFI - MW-52 MAY 2012

TestAmerica Job ID: 680-79574-1

Client Sample ID: EB-3
Date Collected: 05/15/12 15:15
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79574-7
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020	0.000091	mg/L		05/18/12 12:35	05/22/12 11:35	1

Client: Ashland Inc.
Project/Site: Brunswick Ph 3 RFI - MW-52 MAY 2012

TestAmerica Job ID: 680-79574-1

Client Sample ID: Trip Blank
Date Collected: 05/15/12 00:00
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79574-8
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/19/12 10:54	1
Acetonitrile	40	U	40	10	ug/L			05/19/12 10:54	1
Acrolein	20	U	20	7.4	ug/L			05/19/12 10:54	1
Acrylonitrile	20	U	20	7.2	ug/L			05/19/12 10:54	1
Benzene	1.0	U	1.0	0.25	ug/L			05/19/12 10:54	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/19/12 10:54	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/19/12 10:54	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/19/12 10:54	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/19/12 10:54	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/19/12 10:54	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			05/19/12 10:54	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			05/19/12 10:54	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/19/12 10:54	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/19/12 10:54	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/19/12 10:54	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			05/19/12 10:54	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/19/12 10:54	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/19/12 10:54	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/19/12 10:54	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/19/12 10:54	1
Dichlorobromomethane	1.0	U	1.0	0.25	ug/L			05/19/12 10:54	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/19/12 10:54	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/19/12 10:54	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/19/12 10:54	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/19/12 10:54	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/19/12 10:54	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/19/12 10:54	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			05/19/12 10:54	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/19/12 10:54	1
2-Hexanone	10	U	10	1.0	ug/L			05/19/12 10:54	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/19/12 10:54	1
Isobutyl alcohol	40	U	40	11	ug/L			05/19/12 10:54	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/19/12 10:54	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/19/12 10:54	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			05/19/12 10:54	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/19/12 10:54	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/19/12 10:54	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/19/12 10:54	1
Propionitrile	20	U	20	4.6	ug/L			05/19/12 10:54	1
Styrene	1.0	U	1.0	0.11	ug/L			05/19/12 10:54	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/19/12 10:54	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/19/12 10:54	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/19/12 10:54	1
Toluene	1.0	U	1.0	0.33	ug/L			05/19/12 10:54	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/19/12 10:54	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/19/12 10:54	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/19/12 10:54	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/19/12 10:54	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/19/12 10:54	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			05/19/12 10:54	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/19/12 10:54	1

Client: Ashland Inc.
Project/Site: Brunswick Ph 3 RFI - MW-52 MAY 2012

TestAmerica Job ID: 680-79574-1

Client Sample ID: Trip Blank
Date Collected: 05/15/12 00:00
Date Received: 05/17/12 10:35

Lab Sample ID: 680-79574-8
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/19/12 10:54	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/19/12 10:54	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/19/12 10:54	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/19/12 10:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*70 - 130*		*05/19/12 10:54*	*1*
Dibromofluoromethane	*106*		*70 - 130*		*05/19/12 10:54*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*05/19/12 10:54*	*1*

Surrogate Summary

Client: Ashland Inc.
Project/Site: Brunswick Ph 3 RFI - MW-52 MAY 2012

TestAmerica Job ID: 680-79574-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)
680-79574-1	MW-52S	93	106	106
680-79574-2	MW-52I	95	95	105
680-79574-3	MW-52D	100	92	104
680-79574-4	Trip Blank 1	92	107	107
680-79574-5	EB-1	93	108	106
680-79574-6	EB-2	91	107	105
680-79574-7	EB-3	92	107	105
680-79574-8	Trip Blank	94	106	104
LCS 680-237898/4	Lab Control Sample	100	104	106
LCS 680-237899/1	Lab Control Sample	100	109	111
LCS 680-237953/4	Lab Control Sample	101	108	111
LCSD 680-237898/5	Lab Control Sample Dup	99	99	103
LCSD 680-237899/2	Lab Control Sample Dup	101	107	108
LCSD 680-237953/5	Lab Control Sample Dup	98	107	110
MB 680-237898/7	Method Blank	95	100	106
MB 680-237899/8	Method Blank	91	107	106
MB 680-237953/7	Method Blank	94	104	107

Surrogate Legend

BFB = 4-Bromofluorobenzene

DBFM = Dibromofluoromethane

TOL = Toluene-d8 (Surr)

Method: 8081A_8082 - Organochlorine Pesticides & PCBs (GC)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(40-130)	(40-130)	(36-130)	(36-130)
680-79574-1	MW-52S	54	32 p X	86	88
680-79574-1 - RE	MW-52S	18 X	17 X	62	65
680-79574-2	MW-52I	25 X	23 X	64	61
680-79574-2 - RE	MW-52I	22 X	20 X	75	75
680-79574-3	MW-52D	32 X	25 X	106	103
680-79574-3 - RE	MW-52D	22 X	14 X	142 X	106
680-79574-5	EB-1	19 p X	37 X	56	67
680-79574-5 - RE	EB-1	31 X	29 X	75	78
680-79574-6	EB-2	19 X	17 X	65	62
680-79574-6 - RE	EB-2	52	50	80	78
680-79574-7	EB-3	37 X	25 X	78	64
680-79574-7 - RE	EB-3	53	50	81	79
LCS 680-237769/21-A	Lab Control Sample	35 X	32 X	85	76
LCS 680-238605/18-A	Lab Control Sample	46	41	77	72
LCSD 680-238605/19-A	Lab Control Sample Dup	55	49	87	85
MB 680-237769/17-A	Method Blank	19 X	20 X	66	74
MB 680-238605/17-A	Method Blank	57	52	82	82

Surrogate Legend

DCB = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-237898/7
Matrix: Water
Analysis Batch: 237898

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/19/12 09:43	1
Acetonitrile	40	U	40	10	ug/L			05/19/12 09:43	1
Acrolein	20	U	20	7.4	ug/L			05/19/12 09:43	1
Acrylonitrile	20	U	20	7.2	ug/L			05/19/12 09:43	1
Benzene	1.0	U	1.0	0.25	ug/L			05/19/12 09:43	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/19/12 09:43	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/19/12 09:43	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/19/12 09:43	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/19/12 09:43	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/19/12 09:43	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			05/19/12 09:43	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			05/19/12 09:43	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/19/12 09:43	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/19/12 09:43	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/19/12 09:43	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			05/19/12 09:43	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/19/12 09:43	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/19/12 09:43	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/19/12 09:43	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/19/12 09:43	1
Dichlorobromomethane	1.0	U	1.0	0.25	ug/L			05/19/12 09:43	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/19/12 09:43	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/19/12 09:43	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/19/12 09:43	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/19/12 09:43	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/19/12 09:43	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/19/12 09:43	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			05/19/12 09:43	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/19/12 09:43	1
2-Hexanone	10	U	10	1.0	ug/L			05/19/12 09:43	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/19/12 09:43	1
Isobutyl alcohol	40	U	40	11	ug/L			05/19/12 09:43	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/19/12 09:43	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/19/12 09:43	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			05/19/12 09:43	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/19/12 09:43	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/19/12 09:43	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/19/12 09:43	1
Propionitrile	20	U	20	4.6	ug/L			05/19/12 09:43	1
Styrene	1.0	U	1.0	0.11	ug/L			05/19/12 09:43	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/19/12 09:43	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/19/12 09:43	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/19/12 09:43	1
Toluene	1.0	U	1.0	0.33	ug/L			05/19/12 09:43	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/19/12 09:43	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/19/12 09:43	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/19/12 09:43	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/19/12 09:43	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/19/12 09:43	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-237898/7
Matrix: Water
Analysis Batch: 237898

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	1.0	U	1.0	0.13	ug/L			05/19/12 09:43	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/19/12 09:43	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/19/12 09:43	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/19/12 09:43	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/19/12 09:43	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/19/12 09:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*70 - 130*		*05/19/12 09:43*	*1*
Dibromofluoromethane	*100*		*70 - 130*		*05/19/12 09:43*	*1*
Toluene-d8 (Surr)	*106*		*70 - 130*		*05/19/12 09:43*	*1*

Lab Sample ID: LCS 680-237898/4
Matrix: Water
Analysis Batch: 237898

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	100	87.2		ug/L		87	26 - 180
Benzene	50.0	50.2		ug/L		100	70 - 130
Bromoform	50.0	41.5		ug/L		83	70 - 130
Bromomethane	50.0	41.5		ug/L		83	23 - 165
Carbon disulfide	50.0	47.8		ug/L		96	54 - 132
Carbon tetrachloride	50.0	47.7		ug/L		95	70 - 130
Chlorobenzene	50.0	47.7		ug/L		95	70 - 130
Chlorodibromomethane	50.0	43.7		ug/L		87	70 - 130
Chloroethane	50.0	49.2		ug/L		98	56 - 152
Chloroform	50.0	50.5		ug/L		101	70 - 130
Chloromethane	50.0	58.7		ug/L		117	70 - 130
cis-1,2-Dichloroethene	50.0	50.5		ug/L		101	70 - 130
cis-1,3-Dichloropropene	50.0	53.0		ug/L		106	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	48.6		ug/L		97	70 - 130
Dibromomethane	50.0	51.6		ug/L		103	70 - 130
Dichlorobromomethane	50.0	53.9		ug/L		108	70 - 130
Dichlorodifluoromethane	50.0	49.1		ug/L		98	44 - 146
1,1-Dichloroethane	50.0	54.9		ug/L		110	70 - 130
1,2-Dichloroethane	50.0	53.9		ug/L		108	70 - 130
1,1-Dichloroethene	50.0	50.1		ug/L		100	66 - 131
1,2-Dichloropropane	50.0	53.5		ug/L		107	70 - 130
Ethylbenzene	50.0	48.7		ug/L		97	70 - 130
Ethylene Dibromide	50.0	52.6		ug/L		105	70 - 130
2-Hexanone	100	94.1		ug/L		94	42 - 185
Methylene Chloride	50.0	48.3		ug/L		97	67 - 130
2-Butanone (MEK)	100	91.6		ug/L		92	49 - 172
4-Methyl-2-pentanone (MIBK)	100	103		ug/L		103	70 - 130
Styrene	50.0	49.5		ug/L		99	70 - 130
1,1,1,2-Tetrachloroethane	50.0	47.0		ug/L		94	70 - 130
1,1,2,2-Tetrachloroethane	50.0	51.5		ug/L		103	70 - 130
Tetrachloroethene	50.0	48.9		ug/L		98	70 - 130
Toluene	50.0	53.7		ug/L		107	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-237898/4
Matrix: Water
Analysis Batch: 237898

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,2-Dichloroethene	50.0	51.9		ug/L		104	70 - 130
trans-1,3-Dichloropropene	50.0	45.7		ug/L		91	70 - 130
1,1,1-Trichloroethane	50.0	57.3		ug/L		115	70 - 130
1,1,2-Trichloroethane	50.0	54.2		ug/L		108	70 - 130
Trichloroethene	50.0	52.0		ug/L		104	70 - 130
Trichlorofluoromethane	50.0	53.5		ug/L		107	55 - 156
1,2,3-Trichloropropane	50.0	49.8		ug/L		100	70 - 130
Vinyl acetate	100	110		ug/L		110	60 - 176
Vinyl chloride	50.0	49.6		ug/L		99	67 - 134
Xylenes, Total	150	146		ug/L		97	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*70 - 130*
Dibromofluoromethane	*104*		*70 - 130*
Toluene-d8 (Surr)	*106*		*70 - 130*

Lab Sample ID: LCSD 680-237898/5
Matrix: Water
Analysis Batch: 237898

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	100	79.6		ug/L		80	26 - 180	9	50
Benzene	50.0	50.1		ug/L		100	70 - 130	0	30
Bromoform	50.0	40.9		ug/L		82	70 - 130	1	30
Bromomethane	50.0	44.9		ug/L		90	23 - 165	8	50
Carbon disulfide	50.0	45.8		ug/L		92	54 - 132	4	30
Carbon tetrachloride	50.0	46.5		ug/L		93	70 - 130	2	30
Chlorobenzene	50.0	47.1		ug/L		94	70 - 130	1	30
Chlorodibromomethane	50.0	42.6		ug/L		85	70 - 130	3	50
Chloroethane	50.0	51.0		ug/L		102	56 - 152	4	40
Chloroform	50.0	49.6		ug/L		99	70 - 130	2	30
Chloromethane	50.0	57.8		ug/L		116	70 - 130	2	30
cis-1,2-Dichloroethene	50.0	48.9		ug/L		98	70 - 130	3	30
cis-1,3-Dichloropropene	50.0	52.4		ug/L		105	70 - 130	1	30
1,2-Dibromo-3-Chloropropane	50.0	47.4		ug/L		95	70 - 130	2	50
Dibromomethane	50.0	50.8		ug/L		102	70 - 130	2	30
Dichlorobromomethane	50.0	53.9		ug/L		108	70 - 130	0	30
Dichlorodifluoromethane	50.0	48.4		ug/L		97	44 - 146	1	50
1,1-Dichloroethane	50.0	52.9		ug/L		106	70 - 130	4	30
1,2-Dichloroethane	50.0	54.3		ug/L		109	70 - 130	1	30
1,1-Dichloroethene	50.0	48.4		ug/L		97	66 - 131	3	30
1,2-Dichloropropane	50.0	52.6		ug/L		105	70 - 130	2	30
Ethylbenzene	50.0	48.4		ug/L		97	70 - 130	0	30
Ethylene Dibromide	50.0	52.6		ug/L		105	70 - 130	0	30
2-Hexanone	100	92.7		ug/L		93	42 - 185	1	30
Methylene Chloride	50.0	46.6		ug/L		93	67 - 130	3	30
2-Butanone (MEK)	100	88.4		ug/L		88	49 - 172	4	30
4-Methyl-2-pentanone (MIBK)	100	103		ug/L		103	70 - 130	0	30
Styrene	50.0	49.9		ug/L		100	70 - 130	1	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-237898/5
Matrix: Water
Analysis Batch: 237898

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	45.7		ug/L		91	70 - 130	3	30
1,1,2,2-Tetrachloroethane	50.0	50.9		ug/L		102	70 - 130	1	30
Tetrachloroethene	50.0	47.7		ug/L		95	70 - 130	2	30
Toluene	50.0	52.2		ug/L		104	70 - 130	3	30
trans-1,2-Dichloroethene	50.0	50.4		ug/L		101	70 - 130	3	30
trans-1,3-Dichloropropene	50.0	45.6		ug/L		91	70 - 130	0	50
1,1,1-Trichloroethane	50.0	57.1		ug/L		114	70 - 130	0	30
1,1,2-Trichloroethane	50.0	53.8		ug/L		108	70 - 130	1	30
Trichloroethene	50.0	51.1		ug/L		102	70 - 130	2	30
Trichlorofluoromethane	50.0	50.3		ug/L		101	55 - 156	6	30
1,2,3-Trichloropropane	50.0	49.3		ug/L		99	70 - 130	1	30
Vinyl acetate	100	106		ug/L		106	60 - 176	4	30
Vinyl chloride	50.0	48.1		ug/L		96	67 - 134	3	30
Xylenes, Total	150	144		ug/L		96	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*70 - 130*
Dibromofluoromethane	*99*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*

Lab Sample ID: MB 680-237899/8
Matrix: Water
Analysis Batch: 237899

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/19/12 09:57	1
Acetonitrile	40	U	40	10	ug/L			05/19/12 09:57	1
Acrolein	20	U	20	7.4	ug/L			05/19/12 09:57	1
Acrylonitrile	20	U	20	7.2	ug/L			05/19/12 09:57	1
Benzene	1.0	U	1.0	0.25	ug/L			05/19/12 09:57	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/19/12 09:57	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/19/12 09:57	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/19/12 09:57	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/19/12 09:57	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/19/12 09:57	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			05/19/12 09:57	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			05/19/12 09:57	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/19/12 09:57	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/19/12 09:57	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/19/12 09:57	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			05/19/12 09:57	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/19/12 09:57	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/19/12 09:57	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/19/12 09:57	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/19/12 09:57	1
Dichlorobromomethane	1.0	U	1.0	0.25	ug/L			05/19/12 09:57	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/19/12 09:57	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/19/12 09:57	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/19/12 09:57	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-237899/8
Matrix: Water
Analysis Batch: 237899

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/19/12 09:57	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/19/12 09:57	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/19/12 09:57	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			05/19/12 09:57	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/19/12 09:57	1
2-Hexanone	10	U	10	1.0	ug/L			05/19/12 09:57	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/19/12 09:57	1
Isobutyl alcohol	40	U	40	11	ug/L			05/19/12 09:57	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/19/12 09:57	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/19/12 09:57	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			05/19/12 09:57	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/19/12 09:57	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/19/12 09:57	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/19/12 09:57	1
Propionitrile	20	U	20	4.6	ug/L			05/19/12 09:57	1
Styrene	1.0	U	1.0	0.11	ug/L			05/19/12 09:57	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/19/12 09:57	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/19/12 09:57	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/19/12 09:57	1
Toluene	1.0	U	1.0	0.33	ug/L			05/19/12 09:57	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/19/12 09:57	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/19/12 09:57	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/19/12 09:57	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/19/12 09:57	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/19/12 09:57	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			05/19/12 09:57	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/19/12 09:57	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/19/12 09:57	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/19/12 09:57	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/19/12 09:57	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/19/12 09:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*91*		*70 - 130*		*05/19/12 09:57*	*1*
Dibromofluoromethane	*107*		*70 - 130*		*05/19/12 09:57*	*1*
Toluene-d8 (Surr)	*106*		*70 - 130*		*05/19/12 09:57*	*1*

Lab Sample ID: LCS 680-237899/1
Matrix: Water
Analysis Batch: 237899

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	100	122		ug/L		122	26 - 180
Benzene	50.0	50.8		ug/L		102	70 - 130
Bromoform	50.0	42.2		ug/L		84	70 - 130
Bromomethane	50.0	60.7		ug/L		121	23 - 165
Carbon disulfide	50.0	47.1		ug/L		94	54 - 132
Carbon tetrachloride	50.0	57.7		ug/L		115	70 - 130
Chlorobenzene	50.0	49.1		ug/L		98	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-237899/1
Matrix: Water
Analysis Batch: 237899

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlorodibromomethane	50.0	51.1		ug/L		102	70 - 130
Chloroethane	50.0	46.4		ug/L		93	56 - 152
Chloroform	50.0	51.1		ug/L		102	70 - 130
Chloromethane	50.0	52.1		ug/L		104	70 - 130
cis-1,2-Dichloroethene	50.0	52.4		ug/L		105	70 - 130
cis-1,3-Dichloropropene	50.0	64.5		ug/L		129	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	47.3		ug/L		95	70 - 130
Dibromomethane	50.0	51.8		ug/L		104	70 - 130
Dichlorobromomethane	50.0	56.3		ug/L		113	70 - 130
Dichlorodifluoromethane	50.0	49.2		ug/L		98	44 - 146
1,1-Dichloroethane	50.0	53.5		ug/L		107	70 - 130
1,2-Dichloroethane	50.0	55.7		ug/L		111	70 - 130
1,1-Dichloroethene	50.0	49.7		ug/L		99	66 - 131
1,2-Dichloropropane	50.0	53.5		ug/L		107	70 - 130
Ethylbenzene	50.0	50.3		ug/L		101	70 - 130
Ethylene Dibromide	50.0	52.6		ug/L		105	70 - 130
2-Hexanone	100	105		ug/L		105	42 - 185
Methylene Chloride	50.0	49.8		ug/L		100	67 - 130
2-Butanone (MEK)	100	111		ug/L		111	49 - 172
4-Methyl-2-pentanone (MIBK)	100	104		ug/L		104	70 - 130
Styrene	50.0	51.6		ug/L		103	70 - 130
1,1,1,2-Tetrachloroethane	50.0	55.4		ug/L		111	70 - 130
1,1,2,2-Tetrachloroethane	50.0	48.2		ug/L		96	70 - 130
Tetrachloroethene	50.0	48.4		ug/L		97	70 - 130
Toluene	50.0	53.8		ug/L		108	70 - 130
trans-1,2-Dichloroethene	50.0	53.3		ug/L		107	70 - 130
trans-1,3-Dichloropropene	50.0	56.6		ug/L		113	70 - 130
1,1,1-Trichloroethane	50.0	58.5		ug/L		117	70 - 130
1,1,2-Trichloroethane	50.0	52.4		ug/L		105	70 - 130
Trichloroethene	50.0	53.5		ug/L		107	70 - 130
Trichlorofluoromethane	50.0	50.3		ug/L		101	55 - 156
1,2,3-Trichloropropane	50.0	46.6		ug/L		93	70 - 130
Vinyl acetate	100	117		ug/L		117	60 - 176
Vinyl chloride	50.0	47.3		ug/L		95	67 - 134
Xylenes, Total	150	154		ug/L		103	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*70 - 130*
Dibromofluoromethane	*109*		*70 - 130*
Toluene-d8 (Surr)	*111*		*70 - 130*

Lab Sample ID: LCSD 680-237899/2
Matrix: Water
Analysis Batch: 237899

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	100	118		ug/L		118	26 - 180	4	50
Benzene	50.0	50.0		ug/L		100	70 - 130	1	30
Bromoform	50.0	41.5		ug/L		83	70 - 130	2	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-237899/2
Matrix: Water
Analysis Batch: 237899

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromomethane			50.0	62.0		ug/L		124	23 - 165	2	50
Carbon disulfide			50.0	45.4		ug/L		91	54 - 132	4	30
Carbon tetrachloride			50.0	57.0		ug/L		114	70 - 130	1	30
Chlorobenzene			50.0	48.0		ug/L		96	70 - 130	2	30
Chlorodibromomethane			50.0	50.6		ug/L		101	70 - 130	1	50
Chloroethane			50.0	45.8		ug/L		92	56 - 152	1	40
Chloroform			50.0	50.5		ug/L		101	70 - 130	1	30
Chloromethane			50.0	50.5		ug/L		101	70 - 130	3	30
cis-1,2-Dichloroethene			50.0	51.6		ug/L		103	70 - 130	1	30
cis-1,3-Dichloropropene			50.0	63.3		ug/L		127	70 - 130	2	30
1,2-Dibromo-3-Chloropropane			50.0	46.9		ug/L		94	70 - 130	1	50
Dibromomethane			50.0	51.0		ug/L		102	70 - 130	1	30
Dichlorobromomethane			50.0	54.3		ug/L		109	70 - 130	4	30
Dichlorodifluoromethane			50.0	47.5		ug/L		95	44 - 146	4	50
1,1-Dichloroethane			50.0	53.1		ug/L		106	70 - 130	1	30
1,2-Dichloroethane			50.0	55.3		ug/L		111	70 - 130	1	30
1,1-Dichloroethene			50.0	47.8		ug/L		96	66 - 131	4	30
1,2-Dichloropropane			50.0	52.9		ug/L		106	70 - 130	1	30
Ethylbenzene			50.0	50.4		ug/L		101	70 - 130	0	30
Ethylene Dibromide			50.0	52.1		ug/L		104	70 - 130	1	30
2-Hexanone			100	103		ug/L		103	42 - 185	2	30
Methylene Chloride			50.0	49.1		ug/L		98	67 - 130	1	30
2-Butanone (MEK)			100	107		ug/L		107	49 - 172	3	30
4-Methyl-2-pentanone (MIBK)			100	103		ug/L		103	70 - 130	1	30
Styrene			50.0	52.5		ug/L		105	70 - 130	2	30
1,1,1,2-Tetrachloroethane			50.0	54.3		ug/L		109	70 - 130	2	30
1,1,2,2-Tetrachloroethane			50.0	47.9		ug/L		96	70 - 130	1	30
Tetrachloroethene			50.0	47.0		ug/L		94	70 - 130	3	30
Toluene			50.0	52.7		ug/L		105	70 - 130	2	30
trans-1,2-Dichloroethene			50.0	51.9		ug/L		104	70 - 130	3	30
trans-1,3-Dichloropropene			50.0	54.7		ug/L		109	70 - 130	3	50
1,1,1-Trichloroethane			50.0	57.6		ug/L		115	70 - 130	2	30
1,1,2-Trichloroethane			50.0	51.7		ug/L		103	70 - 130	1	30
Trichloroethene			50.0	52.2		ug/L		104	70 - 130	3	30
Trichlorofluoromethane			50.0	48.2		ug/L		96	55 - 156	4	30
1,2,3-Trichloropropane			50.0	47.0		ug/L		94	70 - 130	1	30
Vinyl acetate			100	113		ug/L		113	60 - 176	3	30
Vinyl chloride			50.0	45.3		ug/L		91	67 - 134	4	30
Xylenes, Total			150	150		ug/L		100	70 - 130	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*70 - 130*
Dibromofluoromethane	*107*		*70 - 130*
Toluene-d8 (Surr)	*108*		*70 - 130*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-237953/7
Matrix: Water
Analysis Batch: 237953

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/20/12 18:36	1
Acetonitrile	40	U	40	10	ug/L			05/20/12 18:36	1
Acrolein	20	U	20	7.4	ug/L			05/20/12 18:36	1
Acrylonitrile	20	U	20	7.2	ug/L			05/20/12 18:36	1
Benzene	1.0	U	1.0	0.25	ug/L			05/20/12 18:36	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/20/12 18:36	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/20/12 18:36	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/20/12 18:36	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/20/12 18:36	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/20/12 18:36	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			05/20/12 18:36	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			05/20/12 18:36	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/20/12 18:36	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/20/12 18:36	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/20/12 18:36	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			05/20/12 18:36	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/20/12 18:36	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/20/12 18:36	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/20/12 18:36	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/20/12 18:36	1
Dichlorobromomethane	1.0	U	1.0	0.25	ug/L			05/20/12 18:36	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/20/12 18:36	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/20/12 18:36	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/20/12 18:36	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/20/12 18:36	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/20/12 18:36	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/20/12 18:36	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			05/20/12 18:36	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/20/12 18:36	1
2-Hexanone	10	U	10	1.0	ug/L			05/20/12 18:36	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/20/12 18:36	1
Isobutyl alcohol	40	U	40	11	ug/L			05/20/12 18:36	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/20/12 18:36	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/20/12 18:36	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			05/20/12 18:36	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/20/12 18:36	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/20/12 18:36	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/20/12 18:36	1
Propionitrile	20	U	20	4.6	ug/L			05/20/12 18:36	1
Styrene	1.0	U	1.0	0.11	ug/L			05/20/12 18:36	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/20/12 18:36	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/20/12 18:36	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/20/12 18:36	1
Toluene	1.0	U	1.0	0.33	ug/L			05/20/12 18:36	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/20/12 18:36	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/20/12 18:36	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/20/12 18:36	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/20/12 18:36	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/20/12 18:36	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-237953/7
Matrix: Water
Analysis Batch: 237953

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	1.0	U	1.0	0.13	ug/L			05/20/12 18:36	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/20/12 18:36	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/20/12 18:36	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/20/12 18:36	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/20/12 18:36	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/20/12 18:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*70 - 130*		*05/20/12 18:36*	*1*
Dibromofluoromethane	*104*		*70 - 130*		*05/20/12 18:36*	*1*
Toluene-d8 (Surr)	*107*		*70 - 130*		*05/20/12 18:36*	*1*

Lab Sample ID: LCS 680-237953/4
Matrix: Water
Analysis Batch: 237953

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	100	133		ug/L		133	26 - 180
Benzene	50.0	51.6		ug/L		103	70 - 130
Bromoform	50.0	41.6		ug/L		83	70 - 130
Bromomethane	50.0	47.2		ug/L		94	23 - 165
Carbon disulfide	50.0	47.9		ug/L		96	54 - 132
Carbon tetrachloride	50.0	58.5		ug/L		117	70 - 130
Chlorobenzene	50.0	47.8		ug/L		96	70 - 130
Chlorodibromomethane	50.0	51.1		ug/L		102	70 - 130
Chloroethane	50.0	45.4		ug/L		91	56 - 152
Chloroform	50.0	51.6		ug/L		103	70 - 130
Chloromethane	50.0	53.5		ug/L		107	70 - 130
cis-1,2-Dichloroethene	50.0	52.1		ug/L		104	70 - 130
cis-1,3-Dichloropropene	50.0	64.9		ug/L		130	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	47.4		ug/L		95	70 - 130
Dibromomethane	50.0	51.8		ug/L		104	70 - 130
Dichlorobromomethane	50.0	56.1		ug/L		112	70 - 130
Dichlorodifluoromethane	50.0	50.5		ug/L		101	44 - 146
1,1-Dichloroethane	50.0	54.0		ug/L		108	70 - 130
1,2-Dichloroethane	50.0	56.1		ug/L		112	70 - 130
1,1-Dichloroethene	50.0	50.7		ug/L		101	66 - 131
1,2-Dichloropropane	50.0	53.1		ug/L		106	70 - 130
Ethylbenzene	50.0	50.1		ug/L		100	70 - 130
Ethylene Dibromide	50.0	52.4		ug/L		105	70 - 130
2-Hexanone	100	128		ug/L		128	42 - 185
Methylene Chloride	50.0	50.3		ug/L		101	67 - 130
2-Butanone (MEK)	100	126		ug/L		126	49 - 172
4-Methyl-2-pentanone (MIBK)	100	106		ug/L		106	70 - 130
Styrene	50.0	51.7		ug/L		103	70 - 130
1,1,1,2-Tetrachloroethane	50.0	54.1		ug/L		108	70 - 130
1,1,2,2-Tetrachloroethane	50.0	47.5		ug/L		95	70 - 130
Tetrachloroethene	50.0	46.8		ug/L		94	70 - 130
Toluene	50.0	54.1		ug/L		108	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-237953/4
Matrix: Water
Analysis Batch: 237953

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,2-Dichloroethene	50.0	54.3		ug/L		109	70 - 130
trans-1,3-Dichloropropene	50.0	57.1		ug/L		114	70 - 130
1,1,1-Trichloroethane	50.0	60.5		ug/L		121	70 - 130
1,1,2-Trichloroethane	50.0	51.7		ug/L		103	70 - 130
Trichloroethene	50.0	52.3		ug/L		105	70 - 130
Trichlorofluoromethane	50.0	46.6		ug/L		93	55 - 156
1,2,3-Trichloropropane	50.0	45.8		ug/L		92	70 - 130
Vinyl acetate	100	123		ug/L		123	60 - 176
Vinyl chloride	50.0	45.5		ug/L		91	67 - 134
Xylenes, Total	150	151		ug/L		101	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*70 - 130*
Dibromofluoromethane	*108*		*70 - 130*
Toluene-d8 (Surr)	*111*		*70 - 130*

Lab Sample ID: LCSD 680-237953/5
Matrix: Water
Analysis Batch: 237953

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	100	136		ug/L		136	26 - 180	2	50
Benzene	50.0	50.7		ug/L		101	70 - 130	2	30
Bromoform	50.0	39.6		ug/L		79	70 - 130	5	30
Bromomethane	50.0	52.1		ug/L		104	23 - 165	10	50
Carbon disulfide	50.0	47.4		ug/L		95	54 - 132	1	30
Carbon tetrachloride	50.0	58.2		ug/L		116	70 - 130	0	30
Chlorobenzene	50.0	46.0		ug/L		92	70 - 130	4	30
Chlorodibromomethane	50.0	48.8		ug/L		98	70 - 130	5	50
Chloroethane	50.0	40.7		ug/L		81	56 - 152	11	40
Chloroform	50.0	50.8		ug/L		102	70 - 130	2	30
Chloromethane	50.0	51.8		ug/L		104	70 - 130	3	30
cis-1,2-Dichloroethene	50.0	51.6		ug/L		103	70 - 130	1	30
cis-1,3-Dichloropropene	50.0	62.8		ug/L		126	70 - 130	3	30
1,2-Dibromo-3-Chloropropane	50.0	44.7		ug/L		89	70 - 130	6	50
Dibromomethane	50.0	51.2		ug/L		102	70 - 130	1	30
Dichlorobromomethane	50.0	55.0		ug/L		110	70 - 130	2	30
Dichlorodifluoromethane	50.0	51.7		ug/L		103	44 - 146	2	50
1,1-Dichloroethane	50.0	53.5		ug/L		107	70 - 130	1	30
1,2-Dichloroethane	50.0	55.2		ug/L		110	70 - 130	2	30
1,1-Dichloroethene	50.0	49.0		ug/L		98	66 - 131	3	30
1,2-Dichloropropane	50.0	51.1		ug/L		102	70 - 130	4	30
Ethylbenzene	50.0	48.4		ug/L		97	70 - 130	3	30
Ethylene Dibromide	50.0	51.5		ug/L		103	70 - 130	2	30
2-Hexanone	100	123		ug/L		123	42 - 185	4	30
Methylene Chloride	50.0	48.6		ug/L		97	67 - 130	3	30
2-Butanone (MEK)	100	124		ug/L		124	49 - 172	2	30
4-Methyl-2-pentanone (MIBK)	100	105		ug/L		105	70 - 130	1	30
Styrene	50.0	49.6		ug/L		99	70 - 130	4	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-237953/5
Matrix: Water
Analysis Batch: 237953

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane			50.0	51.7		ug/L		103	70 - 130	4	30
1,1,2,2-Tetrachloroethane			50.0	47.4		ug/L		95	70 - 130	0	30
Tetrachloroethene			50.0	47.0		ug/L		94	70 - 130	0	30
Toluene			50.0	53.0		ug/L		106	70 - 130	2	30
trans-1,2-Dichloroethene			50.0	54.0		ug/L		108	70 - 130	0	30
trans-1,3-Dichloropropene			50.0	54.2		ug/L		108	70 - 130	5	50
1,1,1-Trichloroethane			50.0	59.9		ug/L		120	70 - 130	1	30
1,1,2-Trichloroethane			50.0	51.0		ug/L		102	70 - 130	1	30
Trichloroethene			50.0	51.3		ug/L		103	70 - 130	2	30
Trichlorofluoromethane			50.0	45.8		ug/L		92	55 - 156	2	30
1,2,3-Trichloropropane			50.0	44.6		ug/L		89	70 - 130	3	30
Vinyl acetate			100	116		ug/L		116	60 - 176	6	30
Vinyl chloride			50.0	44.5		ug/L		89	67 - 134	2	30
Xylenes, Total			150	146		ug/L		97	70 - 130	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*98*		*70 - 130*
Dibromofluoromethane	*107*		*70 - 130*
Toluene-d8 (Surr)	*110*		*70 - 130*

Method: 8081A_8082 - Organochlorine Pesticides & PCBs (GC)

Lab Sample ID: MB 680-237769/17-A
Matrix: Water
Analysis Batch: 238224

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 237769

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene, Technical	5.0	U	5.0	0.50	ug/L		05/18/12 15:41	05/22/12 17:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*19*	*X*	*40 - 130*	*05/18/12 15:41*	*05/22/12 17:49*	*1*
DCB Decachlorobiphenyl	*20*	*X*	*40 - 130*	*05/18/12 15:41*	*05/22/12 17:49*	*1*
Tetrachloro-m-xylene	*66*		*36 - 130*	*05/18/12 15:41*	*05/22/12 17:49*	*1*
Tetrachloro-m-xylene	*74*		*36 - 130*	*05/18/12 15:41*	*05/22/12 17:49*	*1*

Lab Sample ID: LCS 680-237769/21-A
Matrix: Water
Analysis Batch: 238224

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 237769

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Toxaphene, Technical			10.0	12.5		ug/L		125	35 - 138		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*35*	*X*	*40 - 130*
DCB Decachlorobiphenyl	*32*	*X*	*40 - 130*
Tetrachloro-m-xylene	*85*		*36 - 130*
Tetrachloro-m-xylene	*76*		*36 - 130*

Method: 8081A_8082 - Organochlorine Pesticides & PCBs (GC) (Continued)

Lab Sample ID: MB 680-238605/17-A
Matrix: Water
Analysis Batch: 239361

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 238605

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene, Technical	5.0	U	5.0	0.50	ug/L		05/28/12 15:21	05/31/12 19:26	1
Toxaphene, TAUC, Parlar 11-69	5.0	U	5.0	0.50	ug/L		05/28/12 15:21	05/31/12 19:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*57*		*40 - 130*	*05/28/12 15:21*	*05/31/12 19:26*	*1*
DCB Decachlorobiphenyl	*52*		*40 - 130*	*05/28/12 15:21*	*05/31/12 19:26*	*1*
Tetrachloro-m-xylene	*82*		*36 - 130*	*05/28/12 15:21*	*05/31/12 19:26*	*1*
Tetrachloro-m-xylene	*82*		*36 - 130*	*05/28/12 15:21*	*05/31/12 19:26*	*1*

Lab Sample ID: LCS 680-238605/18-A
Matrix: Water
Analysis Batch: 239361

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 238605

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Toxaphene, Technical			10.0	8.80		ug/L		88	35 - 138		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*46*		*40 - 130*
DCB Decachlorobiphenyl	*41*		*40 - 130*
Tetrachloro-m-xylene	*77*		*36 - 130*
Tetrachloro-m-xylene	*72*		*36 - 130*

Lab Sample ID: LCSD 680-238605/19-A
Matrix: Water
Analysis Batch: 239361

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 238605

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toxaphene, Technical			10.0	10.5		ug/L		105	35 - 138	17	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*55*		*40 - 130*
DCB Decachlorobiphenyl	*49*		*40 - 130*
Tetrachloro-m-xylene	*87*		*36 - 130*
Tetrachloro-m-xylene	*85*		*36 - 130*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 680-238027/1-A
Matrix: Water
Analysis Batch: 238198

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 238027

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.020	U	0.020	0.0052	mg/L		05/21/12 17:58	05/23/12 00:45	1
Arsenic	0.020	U	0.020	0.010	mg/L		05/21/12 17:58	05/23/12 00:45	1
Barium	0.010	U	0.010	0.0020	mg/L		05/21/12 17:58	05/23/12 00:45	1
Beryllium	0.0040	U	0.0040	0.00010	mg/L		05/21/12 17:58	05/23/12 00:45	1
Cadmium	0.0050	U	0.0050	0.0020	mg/L		05/21/12 17:58	05/23/12 00:45	1
Chromium	0.010	U	0.010	0.0020	mg/L		05/21/12 17:58	05/23/12 00:45	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 680-238027/1-A
Matrix: Water
Analysis Batch: 238198

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 238027

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	0.010	U	0.010	0.0010	mg/L		05/21/12 17:58	05/23/12 00:45	1
Copper	0.020	U	0.020	0.0050	mg/L		05/21/12 17:58	05/23/12 00:45	1
Lead	0.010	U	0.010	0.0034	mg/L		05/21/12 17:58	05/23/12 00:45	1
Nickel	0.040	U	0.040	0.0040	mg/L		05/21/12 17:58	05/23/12 00:45	1
Selenium	0.020	U	0.020	0.0064	mg/L		05/21/12 17:58	05/23/12 00:45	1
Silver	0.010	U	0.010	0.00097	mg/L		05/21/12 17:58	05/23/12 00:45	1
Thallium	0.025	U	0.025	0.0087	mg/L		05/21/12 17:58	05/23/12 00:45	1
Tin	0.050	U	0.050	0.0054	mg/L		05/21/12 17:58	05/23/12 00:45	1
Vanadium	0.010	U	0.010	0.0030	mg/L		05/21/12 17:58	05/23/12 00:45	1
Zinc	0.020	U	0.020	0.0063	mg/L		05/21/12 17:58	05/23/12 00:45	1

Lab Sample ID: LCS 680-238027/2-A
Matrix: Water
Analysis Batch: 238198

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 238027

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.490		mg/L		98	75 - 125
Arsenic	2.00	2.13		mg/L		107	75 - 125
Barium	2.00	2.10		mg/L		105	75 - 125
Beryllium	0.0500	0.0526		mg/L		105	75 - 125
Cadmium	0.0500	0.0517		mg/L		103	75 - 125
Chromium	0.200	0.208		mg/L		104	75 - 125
Cobalt	0.500	0.530		mg/L		106	75 - 125
Copper	0.250	0.269		mg/L		107	75 - 125
Lead	0.500	0.517		mg/L		103	75 - 125
Nickel	0.500	0.520		mg/L		104	75 - 125
Selenium	2.00	2.09		mg/L		104	75 - 125
Silver	0.0500	0.0522		mg/L		104	75 - 125
Thallium	2.00	2.17		mg/L		108	75 - 125
Tin	1.00	1.05		mg/L		105	75 - 125
Vanadium	0.500	0.515		mg/L		103	75 - 125
Zinc	0.500	0.515		mg/L		103	75 - 125

Lab Sample ID: MB 680-238189/1-A
Matrix: Water
Analysis Batch: 238551

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 238189

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.020	U	0.020	0.0052	mg/L		05/23/12 08:39	05/25/12 11:09	1
Arsenic	0.020	U	0.020	0.010	mg/L		05/23/12 08:39	05/25/12 11:09	1
Barium	0.010	U	0.010	0.0020	mg/L		05/23/12 08:39	05/25/12 11:09	1
Beryllium	0.0040	U	0.0040	0.00010	mg/L		05/23/12 08:39	05/25/12 11:09	1
Cadmium	0.0050	U	0.0050	0.0020	mg/L		05/23/12 08:39	05/25/12 11:09	1
Chromium	0.010	U	0.010	0.0020	mg/L		05/23/12 08:39	05/25/12 11:09	1
Cobalt	0.010	U	0.010	0.0010	mg/L		05/23/12 08:39	05/25/12 11:09	1
Copper	0.020	U	0.020	0.0050	mg/L		05/23/12 08:39	05/25/12 11:09	1
Lead	0.010	U	0.010	0.0034	mg/L		05/23/12 08:39	05/25/12 11:09	1
Nickel	0.040	U	0.040	0.0040	mg/L		05/23/12 08:39	05/25/12 11:09	1
Selenium	0.00640	J	0.020	0.0064	mg/L		05/23/12 08:39	05/25/12 11:09	1
Silver	0.010	U	0.010	0.00097	mg/L		05/23/12 08:39	05/25/12 11:09	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 680-238189/1-A
Matrix: Water
Analysis Batch: 238551

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 238189

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.025	U	0.025	0.0087	mg/L		05/23/12 08:39	05/25/12 11:09	1
Tin	0.050	U	0.050	0.0054	mg/L		05/23/12 08:39	05/25/12 11:09	1
Vanadium	0.010	U	0.010	0.0030	mg/L		05/23/12 08:39	05/25/12 11:09	1
Zinc	0.020	U	0.020	0.0063	mg/L		05/23/12 08:39	05/25/12 11:09	1

Lab Sample ID: LCS 680-238189/2-A
Matrix: Water
Analysis Batch: 238551

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 238189

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.483		mg/L		97	75 - 125
Arsenic	2.00	2.10		mg/L		105	75 - 125
Barium	2.00	2.06		mg/L		103	75 - 125
Beryllium	0.0500	0.0506		mg/L		101	75 - 125
Cadmium	0.0500	0.0507		mg/L		101	75 - 125
Chromium	0.200	0.201		mg/L		101	75 - 125
Cobalt	0.500	0.520		mg/L		104	75 - 125
Copper	0.250	0.266		mg/L		106	75 - 125
Lead	0.500	0.513		mg/L		103	75 - 125
Nickel	0.500	0.518		mg/L		104	75 - 125
Selenium	2.00	2.06		mg/L		103	75 - 125
Silver	0.0500	0.0502		mg/L		100	75 - 125
Thallium	2.00	2.12		mg/L		106	75 - 125
Tin	1.00	1.05		mg/L		105	75 - 125
Vanadium	0.500	0.509		mg/L		102	75 - 125
Zinc	0.500	0.498		mg/L		100	75 - 125

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-237806/1-A
Matrix: Water
Analysis Batch: 238210

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 237806

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020	0.000091	mg/L		05/18/12 12:35	05/22/12 10:27	1

Lab Sample ID: LCS 680-237806/2-A
Matrix: Water
Analysis Batch: 238210

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 237806

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00250	0.00248		mg/L		99	80 - 120

GC/MS VOA

Analysis Batch: 237898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-79574-2	MW-52I	Total/NA	Water	8260B	
680-79574-3	MW-52D	Total/NA	Water	8260B	
LCS 680-237898/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-237898/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-237898/7	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 237899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-79574-4	Trip Blank 1	Total/NA	Water	8260B	
680-79574-5	EB-1	Total/NA	Water	8260B	
680-79574-6	EB-2	Total/NA	Water	8260B	
680-79574-7	EB-3	Total/NA	Water	8260B	
680-79574-8	Trip Blank	Total/NA	Water	8260B	
LCS 680-237899/1	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-237899/2	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-237899/8	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 237953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-79574-1	MW-52S	Total/NA	Water	8260B	
LCS 680-237953/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-237953/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-237953/7	Method Blank	Total/NA	Water	8260B	

GC Semi VOA

Prep Batch: 237769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-79574-1	MW-52S	Total/NA	Water	3520C	
680-79574-2	MW-52I	Total/NA	Water	3520C	
680-79574-3	MW-52D	Total/NA	Water	3520C	
680-79574-5	EB-1	Total/NA	Water	3520C	
680-79574-6	EB-2	Total/NA	Water	3520C	
680-79574-7	EB-3	Total/NA	Water	3520C	
LCS 680-237769/21-A	Lab Control Sample	Total/NA	Water	3520C	
MB 680-237769/17-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 238224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-237769/21-A	Lab Control Sample	Total/NA	Water	8081A_8082	237769
MB 680-237769/17-A	Method Blank	Total/NA	Water	8081A_8082	237769

Prep Batch: 238605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-79574-1 - RE	MW-52S	Total/NA	Water	3520C	
680-79574-2 - RE	MW-52I	Total/NA	Water	3520C	
680-79574-3 - RE	MW-52D	Total/NA	Water	3520C	
680-79574-5 - RE	EB-1	Total/NA	Water	3520C	
680-79574-6 - RE	EB-2	Total/NA	Water	3520C	
680-79574-7 - RE	EB-3	Total/NA	Water	3520C	
LCS 680-238605/18-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 680-238605/19-A	Lab Control Sample Dup	Total/NA	Water	3520C	

GC Semi VOA (Continued)

Prep Batch: 238605 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-238605/17-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 238799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-79574-1	MW-52S	Total/NA	Water	8081A_8082	237769
680-79574-2	MW-52I	Total/NA	Water	8081A_8082	237769
680-79574-3	MW-52D	Total/NA	Water	8081A_8082	237769
680-79574-5	EB-1	Total/NA	Water	8081A_8082	237769
680-79574-6	EB-2	Total/NA	Water	8081A_8082	237769
680-79574-7	EB-3	Total/NA	Water	8081A_8082	237769

Analysis Batch: 238857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-79574-1	MW-52S	Total/NA	Water	8081A_8082	237769
680-79574-2	MW-52I	Total/NA	Water	8081A_8082	237769
680-79574-3	MW-52D	Total/NA	Water	8081A_8082	237769
680-79574-5	EB-1	Total/NA	Water	8081A_8082	237769
680-79574-6	EB-2	Total/NA	Water	8081A_8082	237769
680-79574-7	EB-3	Total/NA	Water	8081A_8082	237769

Analysis Batch: 239360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-79574-1 - RE	MW-52S	Total/NA	Water	8081A_8082	238605
680-79574-2 - RE	MW-52I	Total/NA	Water	8081A_8082	238605
680-79574-3 - RE	MW-52D	Total/NA	Water	8081A_8082	238605
680-79574-5 - RE	EB-1	Total/NA	Water	8081A_8082	238605
680-79574-6 - RE	EB-2	Total/NA	Water	8081A_8082	238605
680-79574-7 - RE	EB-3	Total/NA	Water	8081A_8082	238605
MB 680-238605/17-A	Method Blank	Total/NA	Water	8081A_8082	238605

Analysis Batch: 239361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-79574-1 - RE	MW-52S	Total/NA	Water	8081A_8082	238605
680-79574-2 - RE	MW-52I	Total/NA	Water	8081A_8082	238605
680-79574-3 - RE	MW-52D	Total/NA	Water	8081A_8082	238605
680-79574-5 - RE	EB-1	Total/NA	Water	8081A_8082	238605
680-79574-6 - RE	EB-2	Total/NA	Water	8081A_8082	238605
680-79574-7 - RE	EB-3	Total/NA	Water	8081A_8082	238605
LCS 680-238605/18-A	Lab Control Sample	Total/NA	Water	8081A_8082	238605
LCSD 680-238605/19-A	Lab Control Sample Dup	Total/NA	Water	8081A_8082	238605
MB 680-238605/17-A	Method Blank	Total/NA	Water	8081A_8082	238605

Metals

Prep Batch: 237806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-79574-1	MW-52S	Total/NA	Water	7470A	
680-79574-2	MW-52I	Total/NA	Water	7470A	
680-79574-3	MW-52D	Total/NA	Water	7470A	
680-79574-5	EB-1	Total/NA	Water	7470A	
680-79574-6	EB-2	Total/NA	Water	7470A	
680-79574-7	EB-3	Total/NA	Water	7470A	

Metals (Continued)

Prep Batch: 237806 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-237806/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 680-237806/1-A	Method Blank	Total/NA	Water	7470A	

Prep Batch: 238027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-79574-1	MW-52S	Total Recoverable	Water	3005A	
680-79574-2	MW-52I	Total Recoverable	Water	3005A	
LCS 680-238027/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 680-238027/1-A	Method Blank	Total Recoverable	Water	3005A	

Prep Batch: 238189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-79574-3	MW-52D	Total Recoverable	Water	3005A	
680-79574-5	EB-1	Total Recoverable	Water	3005A	
680-79574-6	EB-2	Total Recoverable	Water	3005A	
680-79574-7	EB-3	Total Recoverable	Water	3005A	
LCS 680-238189/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 680-238189/1-A	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 238198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-79574-1	MW-52S	Total Recoverable	Water	6010B	238027
680-79574-2	MW-52I	Total Recoverable	Water	6010B	238027
LCS 680-238027/2-A	Lab Control Sample	Total Recoverable	Water	6010B	238027
MB 680-238027/1-A	Method Blank	Total Recoverable	Water	6010B	238027

Analysis Batch: 238210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-79574-1	MW-52S	Total/NA	Water	7470A	237806
680-79574-2	MW-52I	Total/NA	Water	7470A	237806
680-79574-3	MW-52D	Total/NA	Water	7470A	237806
680-79574-5	EB-1	Total/NA	Water	7470A	237806
680-79574-6	EB-2	Total/NA	Water	7470A	237806
680-79574-7	EB-3	Total/NA	Water	7470A	237806
LCS 680-237806/2-A	Lab Control Sample	Total/NA	Water	7470A	237806
MB 680-237806/1-A	Method Blank	Total/NA	Water	7470A	237806

Analysis Batch: 238551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-79574-3	MW-52D	Total Recoverable	Water	6010B	238189
680-79574-5	EB-1	Total Recoverable	Water	6010B	238189
680-79574-6	EB-2	Total Recoverable	Water	6010B	238189
680-79574-7	EB-3	Total Recoverable	Water	6010B	238189
LCS 680-238189/2-A	Lab Control Sample	Total Recoverable	Water	6010B	238189
MB 680-238189/1-A	Method Blank	Total Recoverable	Water	6010B	238189

Lab Chronicle

Client: Ashland Inc.
Project/Site: Brunswick Ph 3 RFI - MW-52 MAY 2012

TestAmerica Job ID: 680-79574-1

Client Sample ID: MW-52S

Lab Sample ID: 680-79574-1

Date Collected: 05/15/12 17:05

Matrix: Water

Date Received: 05/17/12 10:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	237953	05/20/12 23:52	RB	TAL SAV
Total/NA	Prep	3520C			237769	05/18/12 15:41	RBS	TAL SAV
Total/NA	Analysis	8081A_8082		1	238799	05/25/12 01:28	GM	TAL SAV
Total/NA	Analysis	8081A_8082		1	238857	05/25/12 01:28	GM	TAL SAV
Total/NA	Prep	3520C	RE		238605	05/28/12 15:21	RBS	TAL SAV
Total/NA	Analysis	8081A_8082	RE	1	239360	05/31/12 23:58	JK	TAL SAV
Total/NA	Analysis	8081A_8082	RE	1	239361	05/31/12 23:58	JK	TAL SAV
Total Recoverable	Prep	3005A			238027	05/21/12 17:58	CDJ	TAL SAV
Total Recoverable	Analysis	6010B		1	238198	05/23/12 02:54	BCB	TAL SAV
Total/NA	Prep	7470A			237806	05/18/12 12:35	JKL	TAL SAV
Total/NA	Analysis	7470A		1	238210	05/22/12 11:18	JKL	TAL SAV

Client Sample ID: MW-52I

Lab Sample ID: 680-79574-2

Date Collected: 05/15/12 16:40

Matrix: Water

Date Received: 05/17/12 10:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	237898	05/19/12 15:26	RB	TAL SAV
Total/NA	Prep	3520C			237769	05/18/12 15:41	RBS	TAL SAV
Total/NA	Analysis	8081A_8082		1	238799	05/25/12 01:47	GM	TAL SAV
Total/NA	Analysis	8081A_8082		1	238857	05/25/12 01:47	GM	TAL SAV
Total/NA	Prep	3520C	RE		238605	05/28/12 15:21	RBS	TAL SAV
Total/NA	Analysis	8081A_8082	RE	1	239360	06/01/12 00:17	JK	TAL SAV
Total/NA	Analysis	8081A_8082	RE	1	239361	06/01/12 00:17	JK	TAL SAV
Total Recoverable	Prep	3005A			238027	05/21/12 17:58	CDJ	TAL SAV
Total Recoverable	Analysis	6010B		1	238198	05/23/12 02:58	BCB	TAL SAV
Total/NA	Prep	7470A			237806	05/18/12 12:35	JKL	TAL SAV
Total/NA	Analysis	7470A		1	238210	05/22/12 11:21	JKL	TAL SAV

Client Sample ID: MW-52D

Lab Sample ID: 680-79574-3

Date Collected: 05/15/12 16:50

Matrix: Water

Date Received: 05/17/12 10:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	237898	05/19/12 15:55	RB	TAL SAV
Total/NA	Prep	3520C			237769	05/18/12 15:41	RBS	TAL SAV
Total/NA	Analysis	8081A_8082		1	238799	05/25/12 02:07	GM	TAL SAV
Total/NA	Analysis	8081A_8082		1	238857	05/25/12 02:07	GM	TAL SAV
Total/NA	Prep	3520C	RE		238605	05/28/12 15:21	RBS	TAL SAV
Total/NA	Analysis	8081A_8082	RE	1	239360	06/01/12 00:37	JK	TAL SAV
Total/NA	Analysis	8081A_8082	RE	1	239361	06/01/12 00:37	JK	TAL SAV
Total/NA	Prep	7470A			237806	05/18/12 12:35	JKL	TAL SAV
Total/NA	Analysis	7470A		1	238210	05/22/12 11:25	JKL	TAL SAV

Lab Chronicle

Client: Ashland Inc.
Project/Site: Brunswick Ph 3 RFI - MW-52 MAY 2012

TestAmerica Job ID: 680-79574-1

Client Sample ID: MW-52D

Lab Sample ID: 680-79574-3

Date Collected: 05/15/12 16:50
Date Received: 05/17/12 10:35

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			238189	05/23/12 08:39	CDJ	TAL SAV
Total Recoverable	Analysis	6010B		1	238551	05/25/12 11:17	BCB	TAL SAV

Client Sample ID: Trip Blank 1

Lab Sample ID: 680-79574-4

Date Collected: 05/15/12 00:00
Date Received: 05/17/12 10:35

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	237899	05/19/12 10:25	RB	TAL SAV

Client Sample ID: EB-1

Lab Sample ID: 680-79574-5

Date Collected: 05/15/12 14:45
Date Received: 05/17/12 10:35

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	237899	05/19/12 11:23	RB	TAL SAV
Total/NA	Prep	3520C			237769	05/18/12 15:41	RBS	TAL SAV
Total/NA	Analysis	8081A_8082		1	238799	05/25/12 02:26	GM	TAL SAV
Total/NA	Analysis	8081A_8082		1	238857	05/25/12 02:26	GM	TAL SAV
Total/NA	Prep	3520C	RE		238605	05/28/12 15:21	RBS	TAL SAV
Total/NA	Analysis	8081A_8082	RE	1	239360	06/01/12 00:56	JK	TAL SAV
Total/NA	Analysis	8081A_8082	RE	1	239361	06/01/12 00:56	JK	TAL SAV
Total/NA	Prep	7470A			237806	05/18/12 12:35	JKL	TAL SAV
Total/NA	Analysis	7470A		1	238210	05/22/12 11:28	JKL	TAL SAV
Total Recoverable	Prep	3005A			238189	05/23/12 08:39	CDJ	TAL SAV
Total Recoverable	Analysis	6010B		1	238551	05/25/12 11:22	BCB	TAL SAV

Client Sample ID: EB-2

Lab Sample ID: 680-79574-6

Date Collected: 05/15/12 15:00
Date Received: 05/17/12 10:35

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	237899	05/19/12 11:51	RB	TAL SAV
Total/NA	Prep	3520C			237769	05/18/12 15:41	RBS	TAL SAV
Total/NA	Analysis	8081A_8082		1	238799	05/25/12 02:45	GM	TAL SAV
Total/NA	Analysis	8081A_8082		1	238857	05/25/12 02:45	GM	TAL SAV
Total/NA	Prep	3520C	RE		238605	05/28/12 15:21	RBS	TAL SAV
Total/NA	Analysis	8081A_8082	RE	1	239360	06/01/12 01:15	JK	TAL SAV
Total/NA	Analysis	8081A_8082	RE	1	239361	06/01/12 01:15	JK	TAL SAV
Total/NA	Prep	7470A			237806	05/18/12 12:35	JKL	TAL SAV
Total/NA	Analysis	7470A		1	238210	05/22/12 11:32	JKL	TAL SAV
Total Recoverable	Prep	3005A			238189	05/23/12 08:39	CDJ	TAL SAV
Total Recoverable	Analysis	6010B		1	238551	05/25/12 11:26	BCB	TAL SAV

Lab Chronicle

Client: Ashland Inc.
Project/Site: Brunswick Ph 3 RFI - MW-52 MAY 2012

TestAmerica Job ID: 680-79574-1

Client Sample ID: EB-3

Lab Sample ID: 680-79574-7

Date Collected: 05/15/12 15:15
Matrix: Water
Date Received: 05/17/12 10:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	237899	05/19/12 12:20	RB	TAL SAV
Total/NA	Prep	3520C			237769	05/18/12 15:41	RBS	TAL SAV
Total/NA	Analysis	8081A_8082		1	238799	05/25/12 03:05	GM	TAL SAV
Total/NA	Analysis	8081A_8082		1	238857	05/25/12 03:05	GM	TAL SAV
Total/NA	Prep	3520C	RE		238605	05/28/12 15:21	RBS	TAL SAV
Total/NA	Analysis	8081A_8082	RE	1	239360	06/01/12 01:35	JK	TAL SAV
Total/NA	Analysis	8081A_8082	RE	1	239361	06/01/12 01:35	JK	TAL SAV
Total/NA	Prep	7470A			237806	05/18/12 12:35	JKL	TAL SAV
Total/NA	Analysis	7470A		1	238210	05/22/12 11:35	JKL	TAL SAV
Total Recoverable	Prep	3005A			238189	05/23/12 08:39	CDJ	TAL SAV
Total Recoverable	Analysis	6010B		1	238551	05/25/12 11:30	BCB	TAL SAV

Client Sample ID: Trip Blank

Lab Sample ID: 680-79574-8

Date Collected: 05/15/12 00:00
Matrix: Water
Date Received: 05/17/12 10:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	237899	05/19/12 10:54	RB	TAL SAV

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Savannah
5102 LaRoche Avenue

Savannah, GA 31404
phone 912.354.7858 fax 912.352.0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Dean Salisbury	Site Contact: Tim Hassett	Date:	COC No:
Hercules, Inc.	Tel/Fax: 803-404-5901	Lab Contact: Lidya Guiliza	Carrier:	1 of 1 COCs

Analysis Turnaround Time
Calendar (C) or Work Days (W) _____
TAT if different from Below _____
☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day

Project Name: Semi-Annual GW Monitoring
Site: Former Hercules, Brunswick, Facility
P O #

Job No.

SDG No.

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	8260B-Appendix IX VOCs	8081B-Technical toxaphene, total area toxaphene (chlorinated camphene)	6010B-Appendix IX Metals	Sample Specific Notes:
MW-525	5.15.12	1705		GW	6		✓	✓	✓	
MW-521	5.15.12	1640		↓	6		✓	✓	✓	
MW-520	5.15.12	1650		↓	6		✓	✓	✓	
Trip Blank 1							✓			
							4		4	

Preservation Used: 1= Ice, 2= HCl; 3= H_2SO_4; 4=HNO_3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Special Instructions/QC Requirements & Comments:

680-79594

2.2°C/2.0°C/4.2°C/4.0°C/4.0°C

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	Antea	5/17/12 10:00		TA	10:00
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
				TA SAV	05/17/12 1035

Savannah
5102 LaRoche Avenue

Savannah, GA 31404
phone 912.354.7858 fax 912.352.0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Dean Salisbury	Site Contact: Tim Hassett	Date:	COC No:
Hercules, Inc.	Tel/Fax: 803-404-5901	Lab Contact: Lidya Guiliza	Carrier:	2 of 2 COCs

Analysis Turnaround Time

Calendar (C) or Work Days (W) _____

TAT if different from Below _____

☐ 2 weeks
☐ 1 week
☐ 2 days
☐ 1 day

Project Name: Semi-Annual GW Monitoring
Site: Former Hercules, Brunswick, Facility
P O #

Job No.

SDG No.

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	8260B-Appendix IX VOCs	8081B-Technical toxaphene, total area toxaphene (chlorinated camphene)	6010B-Appendix IX Metals	Sample Specific Notes:
EB-1	5/15/12	1445	G	W	6		X	X	X	
EB-2	↓	1500	G	W	6		X	X	X	
EB-3	5/15/12	1575	G	W	6		X	X	X	
Trip Blank										← Extra TB found in cooler

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Preservation Used: 1= Ice, 2= HCl; 3= H_2SO_4; 4=HNO_3; 5=NaOH; 6= Other _____

Possible Hazard Identification

☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Special Instructions/QC Requirements & Comments:

680 - 79574

2.2°C / 2.0°C / 4.2°C / 4.0°C / 4.0°C

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
				TASA	
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
					05/17/12 1035

Login Sample Receipt Checklist

Client: Ashland Inc.

Job Number: 680-79574-1

Login Number: 79574

List Source: TestAmerica Savannah

List Number: 1

Creator: Barnett, Eddie T

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.2, 2.0, 4.2, 4.0, 4.0 C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the sample IDs on the containers and the COC.	False	Second trip blank received and not listed on COC
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	pH of container(s) is out of range: C2
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	Insufficient volume received for MS/MSD.
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Ashland Inc.
Project/Site: Brunswick Ph 3 RFI - MW-52 MAY 2012

TestAmerica Job ID: 680-79574-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Savannah	A2LA	DoD ELAP		0399-01
TestAmerica Savannah	A2LA	ISO/IEC 17025		399.01
TestAmerica Savannah	Alabama	State Program	4	41450
TestAmerica Savannah	Arkansas DEQ	State Program	6	88-0692
TestAmerica Savannah	California	NELAC	9	3217CA
TestAmerica Savannah	Colorado	State Program	8	N/A
TestAmerica Savannah	Connecticut	State Program	1	PH-0161
TestAmerica Savannah	Florida	NELAC	4	E87052
TestAmerica Savannah	GA Dept. of Agriculture	State Program	4	N/A
TestAmerica Savannah	Georgia	State Program	4	803
TestAmerica Savannah	Georgia	State Program	4	N/A
TestAmerica Savannah	Guam	State Program	9	09-005r
TestAmerica Savannah	Hawaii	State Program	9	N/A
TestAmerica Savannah	Illinois	NELAC	5	200022
TestAmerica Savannah	Indiana	State Program	5	N/A
TestAmerica Savannah	Iowa	State Program	7	353
TestAmerica Savannah	Kentucky	State Program	4	90084
TestAmerica Savannah	Kentucky (UST)	State Program	4	18
TestAmerica Savannah	Louisiana	NELAC	6	30690
TestAmerica Savannah	Louisiana	NELAC	6	LA100015
TestAmerica Savannah	Maine	State Program	1	GA00006
TestAmerica Savannah	Maryland	State Program	3	250
TestAmerica Savannah	Massachusetts	State Program	1	M-GA006
TestAmerica Savannah	Michigan	State Program	5	9925
TestAmerica Savannah	Mississippi	State Program	4	N/A
TestAmerica Savannah	Montana	State Program	8	CERT0081
TestAmerica Savannah	Nebraska	State Program	7	TestAmerica-Savannah
TestAmerica Savannah	New Jersey	NELAC	2	GA769
TestAmerica Savannah	New Mexico	State Program	6	N/A
TestAmerica Savannah	New York	NELAC	2	10842
TestAmerica Savannah	North Carolina DENR	State Program	4	269
TestAmerica Savannah	North Carolina DHHS	State Program	4	13701
TestAmerica Savannah	Oklahoma	State Program	6	9984
TestAmerica Savannah	Pennsylvania	NELAC	3	68-00474
TestAmerica Savannah	Puerto Rico	State Program	2	GA00006
TestAmerica Savannah	Rhode Island	State Program	1	LAO00244
TestAmerica Savannah	South Carolina	State Program	4	98001
TestAmerica Savannah	Tennessee	State Program	4	TN02961
TestAmerica Savannah	Texas	NELAC	6	T104704185-08-TX
TestAmerica Savannah	USDA	Federal		SAV 3-04
TestAmerica Savannah	Vermont	State Program	1	87052
TestAmerica Savannah	Virginia	NELAC	3	460161
TestAmerica Savannah	Washington	State Program	10	C1794
TestAmerica Savannah	West Virginia	State Program	3	9950C
TestAmerica Savannah	West Virginia DEP	State Program	3	94
TestAmerica Savannah	Wisconsin	State Program	5	999819810
TestAmerica Savannah	Wyoming	State Program	8	8TMS-Q

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-81728-2
Client Project/Site: HERC Brunswick Ph3 RFI Resample AUG 2012

For:
Ashland Inc.
Ashland Hercules Research Center
500 Hercules Rd Bldg 8139
Wilmington, Delaware 19808

Attn: Timothy Hassett

Authorized for release by:
8/15/2012 3:45:00 PM

Lidya Gulizia
Project Manager II
lidya.gulizia@testamericainc.com

cc: Tony Mancini

Table of Contents

Job ID: 680-81728-2

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Ashland Inc.

Project: HERC Brunswick Ph3 RFI Resample AUG 2012

Report Number: 680-81728-2

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 08/03/2012; the samples arrived in good condition, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.8º C and 1.9º C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples MW-52S (680-81728-1), MW-52I (680-81728-2), MW-52D (680-81728-3) and EQ-B (680-81728-4) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 08/08/2012.

The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch 245986 exceeded control limits for the following analytes: chloroethane. These analytes were biased high in both the LCS and LCSD but were not detected in the associated samples; therefore, the data have been reported.

No other difficulties were encountered during the volatiles analyses.

All other quality control parameters were within the acceptance limits.

PESTICIDES AND PCBS

Samples MW-52D (680-81728-3) and EQ-B (680-81728-4) were analyzed for Pesticides and PCBs in accordance with EPA SW846 Method 8081A_8082. The samples were prepared on 08/06/2012 and analyzed on 08/08/2012 and 08/09/2012.

This method incorporates 2nd column confirmation. Corrective action is not taken for surrogate/spike compounds unless results from both columns are unacceptable. Results outside criteria are qualified.

Two surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample(s) contained an allowable number of surrogate compounds outside limits: MW-52D (680-81728-3). These results have been reported and qualified.

No other difficulties were encountered during the Pesticides and PCBs analyses.

All other quality control parameters were within the acceptance limits.

Sample Summary

Client: Ashland Inc.
Project/Site: HERC Brunswick Ph3 RFI Resample AUG 2012

TestAmerica Job ID: 680-81728-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-81728-1	MW-52S	Water	08/02/12 12:10	08/03/12 11:53
680-81728-2	MW-52I	Water	08/02/12 13:45	08/03/12 11:53
680-81728-3	MW-52D	Water	08/02/12 14:40	08/03/12 11:53
680-81728-4	EQ-B	Water	08/02/12 10:45	08/03/12 11:53

Method Summary

Client: Ashland Inc.
TestAmerica Job ID: 680-81728-2
Project/Site: HERC Brunswick Ph3 RFI Resample AUG 2012

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
8081A_8082	Organochlorine Pesticides & PCBs (GC)	SW846	TAL SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Definitions/Glossary

Client: Ashland Inc.
Project/Site: HERC Brunswick Ph3 RFI Resample AUG 2012

TestAmerica Job ID: 680-81728-2

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: Ashland Inc.
Project/Site: HERC Brunswick Ph3 RFI Resample AUG 2012

TestAmerica Job ID: 680-81728-2

Client Sample ID: MW-52S — Lab Sample ID: 680-81728-1

No Detections

Client Sample ID: MW-52I — Lab Sample ID: 680-81728-2

No Detections

Client Sample ID: MW-52D — Lab Sample ID: 680-81728-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	6.0		1.0	0.25	ug/L	1		8260B	Total/NA
Chlorobenzene	1.7		1.0	0.25	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	0.31	J	1.0	0.15	ug/L	1		8260B	Total/NA
1,2-Dichloropropane	0.27	J	1.0	0.13	ug/L	1		8260B	Total/NA
Ethylbenzene	0.89	J	1.0	0.11	ug/L	1		8260B	Total/NA
Xylenes, Total	2.3		2.0	0.20	ug/L	1		8260B	Total/NA

Client Sample ID: EQ-B — Lab Sample ID: 680-81728-4

No Detections

Client: Ashland Inc.
Project/Site: HERC Brunswick Ph3 RFI Resample AUG 2012

TestAmerica Job ID: 680-81728-2

Client Sample ID: MW-52S
Date Collected: 08/02/12 12:10
Date Received: 08/03/12 11:53

Lab Sample ID: 680-81728-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.25	ug/L			08/08/12 15:29	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			08/08/12 15:29	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			08/08/12 15:29	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			08/08/12 15:29	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			08/08/12 15:29	1
Toluene	1.0	U	1.0	0.33	ug/L			08/08/12 15:29	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			08/08/12 15:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*70 - 130*		*08/08/12 15:29*	*1*
Dibromofluoromethane	*101*		*70 - 130*		*08/08/12 15:29*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*08/08/12 15:29*	*1*

Client: Ashland Inc.
Project/Site: HERC Brunswick Ph3 RFI Resample AUG 2012

TestAmerica Job ID: 680-81728-2

Client Sample ID: MW-52I
Date Collected: 08/02/12 13:45
Date Received: 08/03/12 11:53

Lab Sample ID: 680-81728-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.25	ug/L			08/08/12 15:57	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			08/08/12 15:57	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			08/08/12 15:57	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			08/08/12 15:57	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			08/08/12 15:57	1
Toluene	1.0	U	1.0	0.33	ug/L			08/08/12 15:57	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			08/08/12 15:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*70 - 130*		*08/08/12 15:57*	*1*
Dibromofluoromethane	*101*		*70 - 130*		*08/08/12 15:57*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*08/08/12 15:57*	*1*

Client Sample ID: MW-52D
Lab Sample ID: 680-81728-3
Date Collected: 08/02/12 14:40
Matrix: Water
Date Received: 08/03/12 11:53

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	6.0		1.0	0.25	ug/L			08/08/12 16:25	1
Chlorobenzene	1.7		1.0	0.25	ug/L			08/08/12 16:25	1
cis-1,2-Dichloroethene	0.31	J	1.0	0.15	ug/L			08/08/12 16:25	1
1,2-Dichloropropane	0.27	J	1.0	0.13	ug/L			08/08/12 16:25	1
Ethylbenzene	0.89	J	1.0	0.11	ug/L			08/08/12 16:25	1
Toluene	1.0	U	1.0	0.33	ug/L			08/08/12 16:25	1
Xylenes, Total	2.3		2.0	0.20	ug/L			08/08/12 16:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*70 - 130*		*08/08/12 16:25*	*1*
Dibromofluoromethane	*101*		*70 - 130*		*08/08/12 16:25*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*08/08/12 16:25*	*1*

Method: 8081A_8082 - Organochlorine Pesticides & PCBs (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene, Technical	4.7	U	4.7	0.47	ug/L		08/06/12 16:12	08/08/12 23:10	1
Toxaphene, TAUC, Parlar 11-69	4.7	U	4.7	0.47	ug/L		08/06/12 16:12	08/09/12 16:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*20*	*X*	*22 - 130*	*08/06/12 16:12*	*08/08/12 23:10*	*1*
DCB Decachlorobiphenyl	*17*	*X*	*22 - 130*	*08/06/12 16:12*	*08/08/12 23:10*	*1*
Tetrachloro-m-xylene	*55*		*53 - 130*	*08/06/12 16:12*	*08/08/12 23:10*	*1*
Tetrachloro-m-xylene	*59*		*53 - 130*	*08/06/12 16:12*	*08/08/12 23:10*	*1*

Client Sample ID: EQ-B
Lab Sample ID: 680-81728-4
Date Collected: 08/02/12 10:45
Matrix: Water
Date Received: 08/03/12 11:53

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.25	ug/L			08/08/12 15:00	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			08/08/12 15:00	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			08/08/12 15:00	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			08/08/12 15:00	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			08/08/12 15:00	1
Toluene	1.0	U	1.0	0.33	ug/L			08/08/12 15:00	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			08/08/12 15:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*70 - 130*		*08/08/12 15:00*	*1*
Dibromofluoromethane	*101*		*70 - 130*		*08/08/12 15:00*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*08/08/12 15:00*	*1*

Method: 8081A_8082 - Organochlorine Pesticides & PCBs (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene, Technical	4.7	U	4.7	0.47	ug/L		08/06/12 16:12	08/08/12 23:38	1
Toxaphene, TAUC, Parlar 11-69	4.7	U	4.7	0.47	ug/L		08/06/12 16:12	08/09/12 16:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*81*		*22 - 130*	*08/06/12 16:12*	*08/08/12 23:38*	*1*
DCB Decachlorobiphenyl	*79*		*22 - 130*	*08/06/12 16:12*	*08/08/12 23:38*	*1*
Tetrachloro-m-xylene	*69*		*53 - 130*	*08/06/12 16:12*	*08/08/12 23:38*	*1*
Tetrachloro-m-xylene	*67*		*53 - 130*	*08/06/12 16:12*	*08/08/12 23:38*	*1*

Surrogate Summary

Client: Ashland Inc.
Project/Site: HERC Brunswick Ph3 RFI Resample AUG 2012

TestAmerica Job ID: 680-81728-2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)
680-81728-1	MW-52S	97	101	99
680-81728-2	MW-52I	97	101	99
680-81728-3	MW-52D	98	101	99
680-81728-4	EQ-B	99	101	99
LCS 680-245986/3	Lab Control Sample	99	108	102
LCSD 680-245986/4	Lab Control Sample Dup	98	106	102
MB 680-245986/6	Method Blank	98	99	98

Surrogate Legend

BFB = 4-Bromofluorobenzene

DBFM = Dibromofluoromethane

TOL = Toluene-d8 (Surr)

Method: 8081A_8082 - Organochlorine Pesticides & PCBs (GC)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(22-130)	(22-130)	(53-130)	(53-130)
680-81728-3	MW-52D	20 X	17 X	55	59
680-81728-4	EQ-B	81	79	69	67
LCS 680-245739/26-A	Lab Control Sample	63		72	
LCSD 680-245739/27-A	Lab Control Sample Dup	57		71	
MB 680-245739/17-A	Method Blank	73		70	

Surrogate Legend

DCB = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-245986/6
Matrix: Water
Analysis Batch: 245986

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.25	ug/L			08/08/12 13:08	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			08/08/12 13:08	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			08/08/12 13:08	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			08/08/12 13:08	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			08/08/12 13:08	1
Toluene	1.0	U	1.0	0.33	ug/L			08/08/12 13:08	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			08/08/12 13:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*70 - 130*		*08/08/12 13:08*	*1*
Dibromofluoromethane	*99*		*70 - 130*		*08/08/12 13:08*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*08/08/12 13:08*	*1*

Lab Sample ID: LCS 680-245986/3
Matrix: Water
Analysis Batch: 245986

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			50.0	53.5		ug/L		107	70 - 130		
Chlorobenzene			50.0	48.9		ug/L		98	70 - 130		
cis-1,2-Dichloroethene			50.0	51.2		ug/L		102	70 - 130		
1,2-Dichloropropane			50.0	53.5		ug/L		107	70 - 130		
Ethylbenzene			50.0	50.8		ug/L		102	70 - 130		
Toluene			50.0	53.1		ug/L		106	70 - 130		
Xylenes, Total			150	151		ug/L		101	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*70 - 130*
Dibromofluoromethane	*108*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 680-245986/4
Matrix: Water
Analysis Batch: 245986

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			50.0	53.1		ug/L		106	70 - 130	1	30
Chlorobenzene			50.0	48.7		ug/L		97	70 - 130	0	30
cis-1,2-Dichloroethene			50.0	50.9		ug/L		102	70 - 130	1	30
1,2-Dichloropropane			50.0	52.7		ug/L		105	70 - 130	1	30
Ethylbenzene			50.0	50.0		ug/L		100	70 - 130	2	30
Toluene			50.0	52.9		ug/L		106	70 - 130	0	30
Xylenes, Total			150	150		ug/L		100	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*98*		*70 - 130*
Dibromofluoromethane	*106*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*

Method: 8081A_8082 - Organochlorine Pesticides & PCBs (GC)

Lab Sample ID: MB 680-245739/17-A
Matrix: Water
Analysis Batch: 246176

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 245739

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene, Technical	5.0	U	5.0	0.50	ug/L		08/06/12 16:12	08/08/12 18:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*73*		*22 - 130*	*08/06/12 16:12*	*08/08/12 18:57*	*1*
Tetrachloro-m-xylene	*70*		*53 - 130*	*08/06/12 16:12*	*08/08/12 18:57*	*1*

Lab Sample ID: MB 680-245739/17-A
Matrix: Water
Analysis Batch: 246312

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 245739

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene, TAUC, Parlar 11-69	5.0	U	5.0	0.50	ug/L		08/06/12 16:12	08/09/12 17:13	1

Lab Sample ID: LCS 680-245739/26-A
Matrix: Water
Analysis Batch: 246176

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 245739

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Toxaphene, Technical			10.0	8.21		ug/L		82	35 - 138		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*63*		*22 - 130*
Tetrachloro-m-xylene	*72*		*53 - 130*

Lab Sample ID: LCSD 680-245739/27-A
Matrix: Water
Analysis Batch: 246176

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 245739

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toxaphene, Technical			10.0	8.97		ug/L		90	35 - 138	9	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*57*		*22 - 130*
Tetrachloro-m-xylene	*71*		*53 - 130*

QC Association Summary

Client: Ashland Inc.
Project/Site: HERC Brunswick Ph3 RFI Resample AUG 2012

TestAmerica Job ID: 680-81728-2

GC/MS VOA

Analysis Batch: 245986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-81728-1	MW-52S	Total/NA	Water	8260B	
680-81728-2	MW-52I	Total/NA	Water	8260B	
680-81728-3	MW-52D	Total/NA	Water	8260B	
680-81728-4	EQ-B	Total/NA	Water	8260B	
LCS 680-245986/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-245986/4	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-245986/6	Method Blank	Total/NA	Water	8260B	

GC Semi VOA

Prep Batch: 245739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-81728-3	MW-52D	Total/NA	Water	3520C	
680-81728-4	EQ-B	Total/NA	Water	3520C	
LCS 680-245739/26-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 680-245739/27-A	Lab Control Sample Dup	Total/NA	Water	3520C	
MB 680-245739/17-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 246176

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-81728-3	MW-52D	Total/NA	Water	8081A_8082	245739
680-81728-4	EQ-B	Total/NA	Water	8081A_8082	245739
LCS 680-245739/26-A	Lab Control Sample	Total/NA	Water	8081A_8082	245739
LCSD 680-245739/27-A	Lab Control Sample Dup	Total/NA	Water	8081A_8082	245739
MB 680-245739/17-A	Method Blank	Total/NA	Water	8081A_8082	245739

Analysis Batch: 246312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-81728-3	MW-52D	Total/NA	Water	8081A_8082	245739
680-81728-4	EQ-B	Total/NA	Water	8081A_8082	245739
MB 680-245739/17-A	Method Blank	Total/NA	Water	8081A_8082	245739

Lab Chronicle

Client: Ashland Inc.
Project/Site: HERC Brunswick Ph3 RFI Resample AUG 2012

TestAmerica Job ID: 680-81728-2

Client Sample ID: MW-52S
Lab Sample ID: 680-81728-1

Date Collected: 08/02/12 12:10
Matrix: Water
Date Received: 08/03/12 11:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	245986	08/08/12 15:29	JD	TAL SAV

Client Sample ID: MW-52I
Lab Sample ID: 680-81728-2

Date Collected: 08/02/12 13:45
Matrix: Water
Date Received: 08/03/12 11:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	245986	08/08/12 15:57	JD	TAL SAV

Client Sample ID: MW-52D
Lab Sample ID: 680-81728-3

Date Collected: 08/02/12 14:40
Matrix: Water
Date Received: 08/03/12 11:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	245986	08/08/12 16:25	JD	TAL SAV
Total/NA	Prep	3520C			245739	08/06/12 16:12	RBS	TAL SAV
Total/NA	Analysis	8081A_8082		1	246176	08/08/12 23:10	CAR	TAL SAV
Total/NA	Analysis	8081A_8082		1	246312	08/09/12 16:17	CAR	TAL SAV

Client Sample ID: EQ-B
Lab Sample ID: 680-81728-4

Date Collected: 08/02/12 10:45
Matrix: Water
Date Received: 08/03/12 11:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	245986	08/08/12 15:00	JD	TAL SAV
Total/NA	Prep	3520C			245739	08/06/12 16:12	RBS	TAL SAV
Total/NA	Analysis	8081A_8082		1	246176	08/08/12 23:38	CAR	TAL SAV
Total/NA	Analysis	8081A_8082		1	246312	08/09/12 16:45	CAR	TAL SAV

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Savannah
5102 LaRoche Avenue

Savannah, GA 31404
phone 912.354.7858 fax 912.352.0165

Chain of Custody Record

TestAmerica
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TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Tony Mancini	Site Contact: Tim Hassett	Date: 8/2/12	COC No:
Hercules, Inc.	Tel/Fax: 803-404-5904	Lab Contact: Lidya Gulizia	Carrier:	1 of 1 COCs
	Analysis Turnaround Time			Job No. 81728-2
	Calendar (C) or Work Days (W) _____			
	TAT if different from Below _____			SDG No.
Project Name: Brunswick Ph 3 RFI	☐ 2 weeks			
Site: Former Hercules, Brunswick, Facility	X 1 week			
P O #	☐ 2 days			
	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	VOC's Analyze only for:- 1,2 dichloropropane, and chlorobenzene, Benzene, Ethylbenzene, cis – 1,2 dichloroethene, Toluene, Xylenes	8081B- Pest -Technical toxaphene, total toxaphene	Sample Specific Notes:
MW-52S	8/2/2012	12:10	G	W			X		
MW-52 I	8/2/2012	13:45	G	W			X		
MW-52D	8/2/2012	14:40	G	W			X	X	
~~EB-1~~ EQB	8/2/12	10:45	G	W			X	X	
Trip Blank	8/2/12	—					X		
							2		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant Poison B ☐ Unknown ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments: 7 day Turn Around Time

1.9/1.8°C

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	Antea	8/3/12 1050			8/3/12 10:50
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	CA	8/3/12 1153			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
				TA SV	8/3/12 1153

Login Sample Receipt Checklist

Client: Ashland Inc.

Job Number: 680-81728-2

Login Number: 81728

List Source: TestAmerica Savannah

List Number: 1

Creator: Conner, Keaton

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the sample IDs on the containers and the COC.	False	No vials labeled as TB-4 vials labeled MW 52 D
Samples are received within Holding Time.	True	Did not receive TB
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	Insufficient volume received for MS/MSD.
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Ashland Inc.
TestAmerica Job ID: 680-81728-2
Project/Site: HERC Brunswick Ph3 RFI Resample AUG 2012

Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		0399-01	02-28-13
A2LA	ISO/IEC 17025		399.01	02-28-13
Alabama	State Program	4	41450	08-15-12
Alaska (UST)	State Program	10	UST-104	06-19-13
Arkansas DEQ	State Program	6	88-0692	02-01-13
California	NELAC	9	3217CA	07-31-13
Colorado	State Program	8	N/A	12-31-12
Connecticut	State Program	1	PH-0161	03-31-13
Florida	NELAC	4	E87052	06-30-13
GA Dept. of Agriculture	State Program	4	N/A	12-31-12
Georgia	State Program	4	N/A	06-30-13
Georgia	State Program	4	803	06-30-13
Guam	State Program	9	09-005r	04-17-13
Hawaii	State Program	9	N/A	06-30-13
Illinois	NELAC	5	200022	11-30-12
Indiana	State Program	5	N/A	06-30-12
Iowa	State Program	7	353	07-01-13
Kentucky	State Program	4	90084	12-31-12
Kentucky (UST)	State Program	4	18	02-28-13
Louisiana	NELAC	6	30690	06-30-13
Louisiana	NELAC	6	LA100015	12-31-12
Maine	State Program	1	GA00006	08-16-14
Maryland	State Program	3	250	12-31-12
Massachusetts	State Program	1	M-GA006	06-30-13
Michigan	State Program	5	9925	06-30-12
Mississippi	State Program	4	N/A	06-30-13
Montana	State Program	8	CERT0081	12-31-12
Nebraska	State Program	7	TestAmerica-Savannah	06-30-13
New Jersey	NELAC	2	GA769	06-30-13
New Mexico	State Program	6	N/A	06-30-13
New York	NELAC	2	10842	04-01-13
North Carolina DENR	State Program	4	269	12-31-13
North Carolina DHHS	State Program	4	13701	07-31-13
Oklahoma	State Program	6	9984	08-31-12
Pennsylvania	NELAC	3	68-00474	06-30-13
Puerto Rico	State Program	2	GA00006	01-01-13
Rhode Island	State Program	1	LAO00244	12-30-12
South Carolina	State Program	4	98001	06-30-13
Tennessee	State Program	4	TN02961	06-30-13
Texas	NELAC	6	T104704185-08-TX	11-30-12
USDA	Federal		SAV 3-04	04-07-14
Vermont	State Program	1	87052	11-16-12
Virginia	NELAC	3	460161	06-14-13
Washington	State Program	10	C1794	06-10-13
West Virginia	State Program	3	9950C	12-31-12
West Virginia DEP	State Program	3	94	06-30-13
Wisconsin	State Program	5	999819810	08-31-12
Wyoming	State Program	8	8TMS-Q	06-30-13

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-86980-1
Client Project/Site: Ashland Brunswick Groundwater RFI

For:
Ashland Inc.
Ashland Hercules Research Center
500 Hercules Rd Bldg 8139
Wilmington, Delaware 19808

Attn: Timothy Hassett

Authorized for release by:
2/15/2013 11:23:02 AM

Lidya Gulizia
Project Manager II
lidya.gulizia@testamericainc.com

Table of Contents

Job ID: 680-86980-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Ashland Inc.

Project: Ashland Brunswick Groundwater RFI

Report Number: 680-86980-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 01/31/2013; the samples arrived in good condition, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 0.2º C, 0.4º C and 0.6º C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples HP-III-59 89-99' (680-86980-1), HP-III-60A 20-26' (680-86980-2), HP-III-60B 50-56' (680-86980-3), HP-III-60C 75-86' (680-86980-4), Trip Blank (680-86980-5) and Field Equipment Blank (680-86980-6) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 02/04/2013 and 02/05/2013.

The laboratory control sample and the laboratory control sample duplicate (LCS/LCSD) for batch 265001 exceeded control limits for vinyl acetate. Vinyl acetate has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed.

The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 265220 exceeded control limits for the following analytes: 1,1-dichloroethane and vinyl acetate.

Samples HP-III-59 89-99' (680-86980-1)[2X] and HP-III-60C 75-86' (680-86980-4)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the volatiles analyses.

All other quality control parameters were within the acceptance limits.

PESTICIDES AND PCBS

Samples HP-III-59 89-99' (680-86980-1), HP-III-60A 20-26' (680-86980-2), HP-III-60B 50-56' (680-86980-3) and HP-III-60C 75-86' (680-86980-4) were analyzed for Pesticides and PCBs in accordance with EPA SW846 Method 8081A_8082. The samples were prepared on 02/01/2013 and analyzed on 02/11/2013.

This method incorporates 2nd column confirmation. Corrective action is not taken for surrogate/spike compounds unless results from both columns are unacceptable. Results outside criteria are qualified.

Two surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without

Job ID: 680-86980-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

performing re-extraction/re-analysis. The following sample(s) contained an allowable number of surrogate compounds outside limits: HP-III-60C 75-86' (680-86980-4). These results have been reported and qualified.

Surrogate recovery for the following sample(s) was outside control limits: (680-86980-1 MS), (680-86980-1 MSD), HP-III-59 89-99' (680-86980-1), (680-86980-2 MS), (680-86980-2 MSD), HP-III-60A 20-26' (680-86980-2). Re-extraction and/or re-analysis was performed with concurring results. The original analysis has been reported.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 269748 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Surrogate recovery was outside control limits for the following sample: Field Equipment Blank (680-86980-6). The sample was re-extracted outside of holding time. Both sets of data are provided.

No other difficulties were encountered during the Pesticides and PCBs analyses.

All other quality control parameters were within the acceptance limits.

Method Summary

Client: Ashland Inc.
Project/Site: Ashland Brunswick Groundwater RFI

TestAmerica Job ID: 680-86980-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
8081A_8082	Organochlorine Pesticides & PCBs (GC)	SW846	TAL SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Sample Summary

Client: Ashland Inc.
Project/Site: Ashland Brunswick Groundwater RFI

TestAmerica Job ID: 680-86980-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-86980-1	HP-III-59 89-99'	Water	01/29/13 17:55	01/31/13 09:42
680-86980-2	HP-III-60A 20-26'	Water	01/30/13 11:52	01/31/13 09:42
680-86980-3	HP-III-60B 50-56'	Water	01/30/13 13:27	01/31/13 09:42
680-86980-4	HP-III-60C 75-86'	Water	01/30/13 15:32	01/31/13 09:42
680-86980-5	Trip Blank	Water	01/30/13 00:00	01/31/13 09:42
680-86980-6	Field Equipment Blank	Water	01/30/13 11:10	01/31/13 09:42

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD exceeds the control limits

GC Semi VOA

Qualifier	Qualifier Description
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
X	Surrogate is outside control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F	RPD of the MS and MSD exceeds the control limits
F	MS or MSD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Ashland Inc.
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TestAmerica Job ID: 680-86980-1

Client Sample ID: HP-III-59 89-99'
Date Collected: 01/29/13 17:55
Date Received: 01/31/13 09:42

Lab Sample ID: 680-86980-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10		50	10	ug/L			02/05/13 13:35	2
Acetonitrile	<20		80	20	ug/L			02/05/13 13:35	2
Acrolein	<15		40	15	ug/L			02/05/13 13:35	2
Acrylonitrile	<14		40	14	ug/L			02/05/13 13:35	2
Benzene	**230**		2.0	0.50	ug/L			02/05/13 13:35	2
Dichlorobromomethane	**2.3**		2.0	0.50	ug/L			02/05/13 13:35	2
Bromoform	**3.2**		2.0	1.0	ug/L			02/05/13 13:35	2
Bromomethane	<1.6		2.0	1.6	ug/L			02/05/13 13:35	2
2-Butanone (MEK)	<2.0		20	2.0	ug/L			02/05/13 13:35	2
Carbon disulfide	<1.2		4.0	1.2	ug/L			02/05/13 13:35	2
Carbon tetrachloride	<1.0		2.0	1.0	ug/L			02/05/13 13:35	2
Chlorobenzene	**8.9**		2.0	0.50	ug/L			02/05/13 13:35	2
Chloroethane	<2.0		2.0	2.0	ug/L			02/05/13 13:35	2
Chloroform	**1.4**	**J**	2.0	0.28	ug/L			02/05/13 13:35	2
Chloromethane	<0.66		2.0	0.66	ug/L			02/05/13 13:35	2
2-Chloro-1,3-butadiene	<0.60		2.0	0.60	ug/L			02/05/13 13:35	2
3-Chloro-1-propene	<0.40		2.0	0.40	ug/L			02/05/13 13:35	2
Chlorodibromomethane	**5.2**		2.0	0.20	ug/L			02/05/13 13:35	2
1,1,1,2-Tetrachloroethane	<0.66		2.0	0.66	ug/L			02/05/13 13:35	2
1,2-Dibromo-3-Chloropropane	<0.88		2.0	0.88	ug/L			02/05/13 13:35	2
Ethylene Dibromide	<0.50		2.0	0.50	ug/L			02/05/13 13:35	2
Dibromomethane	<0.40		2.0	0.40	ug/L			02/05/13 13:35	2
trans-1,4-Dichloro-2-butene	<1.0		4.0	1.0	ug/L			02/05/13 13:35	2
Dichlorodifluoromethane	<0.50		2.0	0.50	ug/L			02/05/13 13:35	2
1,1-Dichloroethane	<0.50	*	2.0	0.50	ug/L			02/05/13 13:35	2
1,2-Dichloroethane	<0.20		2.0	0.20	ug/L			02/05/13 13:35	2
1,1-Dichloroethene	<0.22		2.0	0.22	ug/L			02/05/13 13:35	2
cis-1,2-Dichloroethene	**0.30**	**J**	2.0	0.30	ug/L			02/05/13 13:35	2
trans-1,2-Dichloroethene	<0.40		2.0	0.40	ug/L			02/05/13 13:35	2
1,2-Dichloropropane	<0.26		2.0	0.26	ug/L			02/05/13 13:35	2
cis-1,3-Dichloropropene	<0.22		2.0	0.22	ug/L			02/05/13 13:35	2
trans-1,3-Dichloropropene	<0.42		2.0	0.42	ug/L			02/05/13 13:35	2
Ethylbenzene	**6.4**		2.0	0.22	ug/L			02/05/13 13:35	2
Ethyl methacrylate	<0.50		2.0	0.50	ug/L			02/05/13 13:35	2
2-Hexanone	<2.0		20	2.0	ug/L			02/05/13 13:35	2
Iodomethane	<2.0		10	2.0	ug/L			02/05/13 13:35	2
Isobutyl alcohol	<22		80	22	ug/L			02/05/13 13:35	2
Methacrylonitrile	<6.6		40	6.6	ug/L			02/05/13 13:35	2
Methylene Chloride	<2.0		10	2.0	ug/L			02/05/13 13:35	2
Methyl methacrylate	<0.96		2.0	0.96	ug/L			02/05/13 13:35	2
4-Methyl-2-pentanone (MIBK)	**3.4**	**J**	20	2.0	ug/L			02/05/13 13:35	2
Pentachloroethane	<2.4		10	2.4	ug/L			02/05/13 13:35	2
Propionitrile	<9.2		40	9.2	ug/L			02/05/13 13:35	2
Styrene	**1.3**	**J**	2.0	0.22	ug/L			02/05/13 13:35	2
1,1,2,2-Tetrachloroethane	<0.36		2.0	0.36	ug/L			02/05/13 13:35	2
Tetrachloroethene	<0.30		2.0	0.30	ug/L			02/05/13 13:35	2
Toluene	**70**		2.0	0.66	ug/L			02/05/13 13:35	2
1,1,1-Trichloroethane	<1.0		2.0	1.0	ug/L			02/05/13 13:35	2
1,1,2-Trichloroethane	<0.26		2.0	0.26	ug/L			02/05/13 13:35	2

Client: Ashland Inc.
Project/Site: Ashland Brunswick Groundwater RFI

TestAmerica Job ID: 680-86980-1

Client Sample ID: HP-III-59 89-99'
Date Collected: 01/29/13 17:55
Date Received: 01/31/13 09:42

Lab Sample ID: 680-86980-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	<0.26		2.0	0.26	ug/L			02/05/13 13:35	2
Trichlorofluoromethane	<0.50		2.0	0.50	ug/L			02/05/13 13:35	2
1,2,3-Trichloropropane	<0.82		2.0	0.82	ug/L			02/05/13 13:35	2
Vinyl acetate	<0.56	*	4.0	0.56	ug/L			02/05/13 13:35	2
Vinyl chloride	<0.36		2.0	0.36	ug/L			02/05/13 13:35	2
Xylenes, Total	**29**		4.0	0.40	ug/L			02/05/13 13:35	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*111*		*70 - 130*		*02/05/13 13:35*	*2*
Dibromofluoromethane	*105*		*70 - 130*		*02/05/13 13:35*	*2*
Toluene-d8 (Surr)	*97*		*70 - 130*		*02/05/13 13:35*	*2*

Method: 8081A_8082 - Organochlorine Pesticides & PCBs (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	<0.0057		0.050	0.0057	ug/L		02/01/13 14:58	02/11/13 00:12	1
gamma-BHC (Lindane)	<0.0059		0.050	0.0059	ug/L		02/01/13 14:58	02/11/13 00:12	1
Toxaphene, Technical	<0.50		5.0	0.50	ug/L		02/01/13 14:58	02/11/13 00:12	1
Toxaphene, TAUC, Parlar 11-69	**2.9**	**J p**	5.0	0.50	ug/L		02/01/13 14:58	02/11/13 00:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*14*	*X*	*22 - 130*	*02/01/13 14:58*	*02/11/13 00:12*	*1*
DCB Decachlorobiphenyl	*9*	*p X*	*22 - 130*	*02/01/13 14:58*	*02/11/13 00:12*	*1*
Tetrachloro-m-xylene	*42*	*X*	*53 - 130*	*02/01/13 14:58*	*02/11/13 00:12*	*1*
Tetrachloro-m-xylene	*33*	*X*	*53 - 130*	*02/01/13 14:58*	*02/11/13 00:12*	*1*

Client: Ashland Inc.
Project/Site: Ashland Brunswick Groundwater RFI

TestAmerica Job ID: 680-86980-1

Client Sample ID: HP-III-60A 20-26'
Date Collected: 01/30/13 11:52
Date Received: 01/31/13 09:42

Lab Sample ID: 680-86980-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.0		25	5.0	ug/L			02/04/13 18:39	1
Acetonitrile	<10		40	10	ug/L			02/04/13 18:39	1
Acrolein	<7.4		20	7.4	ug/L			02/04/13 18:39	1
Acrylonitrile	<7.2		20	7.2	ug/L			02/04/13 18:39	1
Benzene	**1.4**		1.0	0.25	ug/L			02/04/13 18:39	1
Dichlorobromomethane	<0.25		1.0	0.25	ug/L			02/04/13 18:39	1
Bromoform	<0.50		1.0	0.50	ug/L			02/04/13 18:39	1
Bromomethane	<0.80		1.0	0.80	ug/L			02/04/13 18:39	1
2-Butanone (MEK)	<1.0		10	1.0	ug/L			02/04/13 18:39	1
Carbon disulfide	<0.60		2.0	0.60	ug/L			02/04/13 18:39	1
Carbon tetrachloride	<0.50		1.0	0.50	ug/L			02/04/13 18:39	1
Chlorobenzene	**0.51**	**J**	1.0	0.25	ug/L			02/04/13 18:39	1
Chloroethane	<1.0		1.0	1.0	ug/L			02/04/13 18:39	1
Chloroform	<0.14		1.0	0.14	ug/L			02/04/13 18:39	1
Chloromethane	<0.33		1.0	0.33	ug/L			02/04/13 18:39	1
2-Chloro-1,3-butadiene	<0.30		1.0	0.30	ug/L			02/04/13 18:39	1
3-Chloro-1-propene	<0.20		1.0	0.20	ug/L			02/04/13 18:39	1
Chlorodibromomethane	<0.10		1.0	0.10	ug/L			02/04/13 18:39	1
1,1,1,2-Tetrachloroethane	<0.33		1.0	0.33	ug/L			02/04/13 18:39	1
1,2-Dibromo-3-Chloropropane	<0.44		1.0	0.44	ug/L			02/04/13 18:39	1
Ethylene Dibromide	<0.25		1.0	0.25	ug/L			02/04/13 18:39	1
Dibromomethane	<0.20		1.0	0.20	ug/L			02/04/13 18:39	1
trans-1,4-Dichloro-2-butene	<0.50		2.0	0.50	ug/L			02/04/13 18:39	1
Dichlorodifluoromethane	<0.25		1.0	0.25	ug/L			02/04/13 18:39	1
1,1-Dichloroethane	<0.25		1.0	0.25	ug/L			02/04/13 18:39	1
1,2-Dichloroethane	<0.10		1.0	0.10	ug/L			02/04/13 18:39	1
1,1-Dichloroethene	<0.11		1.0	0.11	ug/L			02/04/13 18:39	1
cis-1,2-Dichloroethene	<0.15		1.0	0.15	ug/L			02/04/13 18:39	1
trans-1,2-Dichloroethene	<0.20		1.0	0.20	ug/L			02/04/13 18:39	1
1,2-Dichloropropane	<0.13		1.0	0.13	ug/L			02/04/13 18:39	1
cis-1,3-Dichloropropene	<0.11		1.0	0.11	ug/L			02/04/13 18:39	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			02/04/13 18:39	1
Ethylbenzene	**0.36**	**J**	1.0	0.11	ug/L			02/04/13 18:39	1
Ethyl methacrylate	<0.25		1.0	0.25	ug/L			02/04/13 18:39	1
2-Hexanone	<1.0		10	1.0	ug/L			02/04/13 18:39	1
Iodomethane	<1.0		5.0	1.0	ug/L			02/04/13 18:39	1
Isobutyl alcohol	<11		40	11	ug/L			02/04/13 18:39	1
Methacrylonitrile	<3.3		20	3.3	ug/L			02/04/13 18:39	1
Methylene Chloride	<1.0		5.0	1.0	ug/L			02/04/13 18:39	1
Methyl methacrylate	<0.48		1.0	0.48	ug/L			02/04/13 18:39	1
4-Methyl-2-pentanone (MIBK)	<1.0		10	1.0	ug/L			02/04/13 18:39	1
Pentachloroethane	<1.2		5.0	1.2	ug/L			02/04/13 18:39	1
Propionitrile	<4.6		20	4.6	ug/L			02/04/13 18:39	1
Styrene	<0.11		1.0	0.11	ug/L			02/04/13 18:39	1
1,1,2,2-Tetrachloroethane	<0.18		1.0	0.18	ug/L			02/04/13 18:39	1
Tetrachloroethene	<0.15		1.0	0.15	ug/L			02/04/13 18:39	1
Toluene	**19**		1.0	0.33	ug/L			02/04/13 18:39	1
1,1,1-Trichloroethane	<0.50		1.0	0.50	ug/L			02/04/13 18:39	1
1,1,2-Trichloroethane	<0.13		1.0	0.13	ug/L			02/04/13 18:39	1

Client Sample ID: HP-III-60A 20-26'
Date Collected: 01/30/13 11:52
Date Received: 01/31/13 09:42

Lab Sample ID: 680-86980-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	<0.13		1.0	0.13	ug/L			02/04/13 18:39	1
Trichlorofluoromethane	<0.25		1.0	0.25	ug/L			02/04/13 18:39	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			02/04/13 18:39	1
Vinyl acetate	<0.28	*	2.0	0.28	ug/L			02/04/13 18:39	1
Vinyl chloride	<0.18		1.0	0.18	ug/L			02/04/13 18:39	1
Xylenes, Total	**0.89**	**J**	2.0	0.20	ug/L			02/04/13 18:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*107*		*70 - 130*		*02/04/13 18:39*	*1*
Dibromofluoromethane	*105*		*70 - 130*		*02/04/13 18:39*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*02/04/13 18:39*	*1*

Method: 8081A_8082 - Organochlorine Pesticides & PCBs (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene, Technical	<0.50		5.0	0.50	ug/L		02/01/13 14:58	02/11/13 08:41	1
Toxaphene, TAUC, Parlar 11-69	**2.8**	**J**	5.0	0.50	ug/L		02/01/13 14:58	02/11/13 08:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*11*	*X*	*22 - 130*	*02/01/13 14:58*	*02/11/13 08:41*	*1*
DCB Decachlorobiphenyl	*5*	*p X*	*22 - 130*	*02/01/13 14:58*	*02/11/13 08:41*	*1*
Tetrachloro-m-xylene	*40*	*X*	*53 - 130*	*02/01/13 14:58*	*02/11/13 08:41*	*1*
Tetrachloro-m-xylene	*39*	*X*	*53 - 130*	*02/01/13 14:58*	*02/11/13 08:41*	*1*

Client: Ashland Inc.
Project/Site: Ashland Brunswick Groundwater RFI

TestAmerica Job ID: 680-86980-1

Client Sample ID: HP-III-60B 50-56'
Date Collected: 01/30/13 13:27
Date Received: 01/31/13 09:42

Lab Sample ID: 680-86980-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.0		25	5.0	ug/L			02/04/13 19:01	1
Acetonitrile	<10		40	10	ug/L			02/04/13 19:01	1
Acrolein	<7.4		20	7.4	ug/L			02/04/13 19:01	1
Acrylonitrile	<7.2		20	7.2	ug/L			02/04/13 19:01	1
Benzene	**2.9**		1.0	0.25	ug/L			02/04/13 19:01	1
Dichlorobromomethane	<0.25		1.0	0.25	ug/L			02/04/13 19:01	1
Bromoform	<0.50		1.0	0.50	ug/L			02/04/13 19:01	1
Bromomethane	<0.80		1.0	0.80	ug/L			02/04/13 19:01	1
2-Butanone (MEK)	<1.0		10	1.0	ug/L			02/04/13 19:01	1
Carbon disulfide	<0.60		2.0	0.60	ug/L			02/04/13 19:01	1
Carbon tetrachloride	<0.50		1.0	0.50	ug/L			02/04/13 19:01	1
Chlorobenzene	**0.36**	**J**	1.0	0.25	ug/L			02/04/13 19:01	1
Chloroethane	<1.0		1.0	1.0	ug/L			02/04/13 19:01	1
Chloroform	<0.14		1.0	0.14	ug/L			02/04/13 19:01	1
Chloromethane	<0.33		1.0	0.33	ug/L			02/04/13 19:01	1
2-Chloro-1,3-butadiene	<0.30		1.0	0.30	ug/L			02/04/13 19:01	1
3-Chloro-1-propene	<0.20		1.0	0.20	ug/L			02/04/13 19:01	1
Chlorodibromomethane	<0.10		1.0	0.10	ug/L			02/04/13 19:01	1
1,1,1,2-Tetrachloroethane	<0.33		1.0	0.33	ug/L			02/04/13 19:01	1
1,2-Dibromo-3-Chloropropane	<0.44		1.0	0.44	ug/L			02/04/13 19:01	1
Ethylene Dibromide	<0.25		1.0	0.25	ug/L			02/04/13 19:01	1
Dibromomethane	<0.20		1.0	0.20	ug/L			02/04/13 19:01	1
trans-1,4-Dichloro-2-butene	<0.50		2.0	0.50	ug/L			02/04/13 19:01	1
Dichlorodifluoromethane	<0.25		1.0	0.25	ug/L			02/04/13 19:01	1
1,1-Dichloroethane	<0.25		1.0	0.25	ug/L			02/04/13 19:01	1
1,2-Dichloroethane	<0.10		1.0	0.10	ug/L			02/04/13 19:01	1
1,1-Dichloroethene	<0.11		1.0	0.11	ug/L			02/04/13 19:01	1
cis-1,2-Dichloroethene	<0.15		1.0	0.15	ug/L			02/04/13 19:01	1
trans-1,2-Dichloroethene	<0.20		1.0	0.20	ug/L			02/04/13 19:01	1
1,2-Dichloropropane	<0.13		1.0	0.13	ug/L			02/04/13 19:01	1
cis-1,3-Dichloropropene	<0.11		1.0	0.11	ug/L			02/04/13 19:01	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			02/04/13 19:01	1
Ethylbenzene	<0.11		1.0	0.11	ug/L			02/04/13 19:01	1
Ethyl methacrylate	<0.25		1.0	0.25	ug/L			02/04/13 19:01	1
2-Hexanone	<1.0		10	1.0	ug/L			02/04/13 19:01	1
Iodomethane	<1.0		5.0	1.0	ug/L			02/04/13 19:01	1
Isobutyl alcohol	<11		40	11	ug/L			02/04/13 19:01	1
Methacrylonitrile	<3.3		20	3.3	ug/L			02/04/13 19:01	1
Methylene Chloride	<1.0		5.0	1.0	ug/L			02/04/13 19:01	1
Methyl methacrylate	<0.48		1.0	0.48	ug/L			02/04/13 19:01	1
4-Methyl-2-pentanone (MIBK)	<1.0		10	1.0	ug/L			02/04/13 19:01	1
Pentachloroethane	<1.2		5.0	1.2	ug/L			02/04/13 19:01	1
Propionitrile	<4.6		20	4.6	ug/L			02/04/13 19:01	1
Styrene	<0.11		1.0	0.11	ug/L			02/04/13 19:01	1
1,1,2,2-Tetrachloroethane	<0.18		1.0	0.18	ug/L			02/04/13 19:01	1
Tetrachloroethene	<0.15		1.0	0.15	ug/L			02/04/13 19:01	1
Toluene	**2.0**		1.0	0.33	ug/L			02/04/13 19:01	1
1,1,1-Trichloroethane	<0.50		1.0	0.50	ug/L			02/04/13 19:01	1
1,1,2-Trichloroethane	<0.13		1.0	0.13	ug/L			02/04/13 19:01	1

Client: Ashland Inc.
Project/Site: Ashland Brunswick Groundwater RFI

TestAmerica Job ID: 680-86980-1

Client Sample ID: HP-III-60B 50-56'
Date Collected: 01/30/13 13:27
Date Received: 01/31/13 09:42

Lab Sample ID: 680-86980-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	<0.13		1.0	0.13	ug/L			02/04/13 19:01	1
Trichlorofluoromethane	<0.25		1.0	0.25	ug/L			02/04/13 19:01	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			02/04/13 19:01	1
Vinyl acetate	<0.28	*	2.0	0.28	ug/L			02/04/13 19:01	1
Vinyl chloride	<0.18		1.0	0.18	ug/L			02/04/13 19:01	1
Xylenes, Total	**0.26**	**J**	2.0	0.20	ug/L			02/04/13 19:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*106*		*70 - 130*		*02/04/13 19:01*	*1*
Dibromofluoromethane	*103*		*70 - 130*		*02/04/13 19:01*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*02/04/13 19:01*	*1*

Method: 8081A_8082 - Organochlorine Pesticides & PCBs (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene, Technical	<0.50		5.0	0.50	ug/L		02/01/13 14:58	02/11/13 00:36	1
Toxaphene, TAUC, Parlar 11-69	<0.50		5.0	0.50	ug/L		02/01/13 14:58	02/11/13 00:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*23*		*22 - 130*	*02/01/13 14:58*	*02/11/13 00:36*	*1*
DCB Decachlorobiphenyl	*22*		*22 - 130*	*02/01/13 14:58*	*02/11/13 00:36*	*1*
Tetrachloro-m-xylene	*58*		*53 - 130*	*02/01/13 14:58*	*02/11/13 00:36*	*1*
Tetrachloro-m-xylene	*57*		*53 - 130*	*02/01/13 14:58*	*02/11/13 00:36*	*1*

Client: Ashland Inc.
Project/Site: Ashland Brunswick Groundwater RFI

TestAmerica Job ID: 680-86980-1

Client Sample ID: HP-III-60C 75-86'
Date Collected: 01/30/13 15:32
Date Received: 01/31/13 09:42

Lab Sample ID: 680-86980-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<25		130	25	ug/L			02/05/13 13:56	5
Acetonitrile	<50		200	50	ug/L			02/05/13 13:56	5
Acrolein	<37		100	37	ug/L			02/05/13 13:56	5
Acrylonitrile	<36		100	36	ug/L			02/05/13 13:56	5
Benzene	**710**		5.0	1.3	ug/L			02/05/13 13:56	5
Dichlorobromomethane	<1.3		5.0	1.3	ug/L			02/05/13 13:56	5
Bromoform	<2.5		5.0	2.5	ug/L			02/05/13 13:56	5
Bromomethane	<4.0		5.0	4.0	ug/L			02/05/13 13:56	5
2-Butanone (MEK)	<5.0		50	5.0	ug/L			02/05/13 13:56	5
Carbon disulfide	<3.0		10	3.0	ug/L			02/05/13 13:56	5
Carbon tetrachloride	<2.5		5.0	2.5	ug/L			02/05/13 13:56	5
Chlorobenzene	**280**		5.0	1.3	ug/L			02/05/13 13:56	5
Chloroethane	<5.0		5.0	5.0	ug/L			02/05/13 13:56	5
Chloroform	<0.70		5.0	0.70	ug/L			02/05/13 13:56	5
Chloromethane	<1.7		5.0	1.7	ug/L			02/05/13 13:56	5
2-Chloro-1,3-butadiene	<1.5		5.0	1.5	ug/L			02/05/13 13:56	5
3-Chloro-1-propene	<1.0		5.0	1.0	ug/L			02/05/13 13:56	5
Chlorodibromomethane	<0.50		5.0	0.50	ug/L			02/05/13 13:56	5
1,1,1,2-Tetrachloroethane	<1.7		5.0	1.7	ug/L			02/05/13 13:56	5
1,2-Dibromo-3-Chloropropane	<2.2		5.0	2.2	ug/L			02/05/13 13:56	5
Ethylene Dibromide	<1.3		5.0	1.3	ug/L			02/05/13 13:56	5
Dibromomethane	<1.0		5.0	1.0	ug/L			02/05/13 13:56	5
trans-1,4-Dichloro-2-butene	<2.5		10	2.5	ug/L			02/05/13 13:56	5
Dichlorodifluoromethane	<1.3		5.0	1.3	ug/L			02/05/13 13:56	5
1,1-Dichloroethane	<1.3	*	5.0	1.3	ug/L			02/05/13 13:56	5
1,2-Dichloroethane	<0.50		5.0	0.50	ug/L			02/05/13 13:56	5
1,1-Dichloroethene	<0.55		5.0	0.55	ug/L			02/05/13 13:56	5
cis-1,2-Dichloroethene	**2.1**	**J**	5.0	0.75	ug/L			02/05/13 13:56	5
trans-1,2-Dichloroethene	<1.0		5.0	1.0	ug/L			02/05/13 13:56	5
1,2-Dichloropropane	<0.65		5.0	0.65	ug/L			02/05/13 13:56	5
cis-1,3-Dichloropropene	<0.55		5.0	0.55	ug/L			02/05/13 13:56	5
trans-1,3-Dichloropropene	<1.1		5.0	1.1	ug/L			02/05/13 13:56	5
Ethylbenzene	**15**		5.0	0.55	ug/L			02/05/13 13:56	5
Ethyl methacrylate	<1.3		5.0	1.3	ug/L			02/05/13 13:56	5
2-Hexanone	<5.0		50	5.0	ug/L			02/05/13 13:56	5
Iodomethane	<5.0		25	5.0	ug/L			02/05/13 13:56	5
Isobutyl alcohol	<55		200	55	ug/L			02/05/13 13:56	5
Methacrylonitrile	<17		100	17	ug/L			02/05/13 13:56	5
Methylene Chloride	<5.0		25	5.0	ug/L			02/05/13 13:56	5
Methyl methacrylate	<2.4		5.0	2.4	ug/L			02/05/13 13:56	5
4-Methyl-2-pentanone (MIBK)	<5.0		50	5.0	ug/L			02/05/13 13:56	5
Pentachloroethane	<6.0		25	6.0	ug/L			02/05/13 13:56	5
Propionitrile	<23		100	23	ug/L			02/05/13 13:56	5
Styrene	<0.55		5.0	0.55	ug/L			02/05/13 13:56	5
1,1,2,2-Tetrachloroethane	<0.90		5.0	0.90	ug/L			02/05/13 13:56	5
Tetrachloroethene	<0.75		5.0	0.75	ug/L			02/05/13 13:56	5
Toluene	**22**		5.0	1.7	ug/L			02/05/13 13:56	5
1,1,1-Trichloroethane	<2.5		5.0	2.5	ug/L			02/05/13 13:56	5
1,1,2-Trichloroethane	<0.65		5.0	0.65	ug/L			02/05/13 13:56	5

Client: Ashland Inc.
Project/Site: Ashland Brunswick Groundwater RFI

TestAmerica Job ID: 680-86980-1

Client Sample ID: HP-III-60C 75-86'
Date Collected: 01/30/13 15:32
Date Received: 01/31/13 09:42

Lab Sample ID: 680-86980-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	<0.65		5.0	0.65	ug/L			02/05/13 13:56	5
Trichlorofluoromethane	<1.3		5.0	1.3	ug/L			02/05/13 13:56	5
1,2,3-Trichloropropane	<2.1		5.0	2.1	ug/L			02/05/13 13:56	5
Vinyl acetate	<1.4	*	10	1.4	ug/L			02/05/13 13:56	5
Vinyl chloride	<0.90		5.0	0.90	ug/L			02/05/13 13:56	5
Xylenes, Total	**8.3**	**J**	10	1.0	ug/L			02/05/13 13:56	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*111*		*70 - 130*		*02/05/13 13:56*	*5*
Dibromofluoromethane	*104*		*70 - 130*		*02/05/13 13:56*	*5*
Toluene-d8 (Surr)	*99*		*70 - 130*		*02/05/13 13:56*	*5*

Method: 8081A_8082 - Organochlorine Pesticides & PCBs (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene, Technical	<0.53		5.3	0.53	ug/L		02/01/13 14:58	02/11/13 09:53	1
Toxaphene, TAUC, Parlar 11-69	**4.5**	**J p**	5.3	0.53	ug/L		02/01/13 14:58	02/11/13 09:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*11*	*X*	*22 - 130*	*02/01/13 14:58*	*02/11/13 09:53*	*1*
DCB Decachlorobiphenyl	*8*	*X*	*22 - 130*	*02/01/13 14:58*	*02/11/13 09:53*	*1*
Tetrachloro-m-xylene	*73*		*53 - 130*	*02/01/13 14:58*	*02/11/13 09:53*	*1*
Tetrachloro-m-xylene	*99*		*53 - 130*	*02/01/13 14:58*	*02/11/13 09:53*	*1*

Client: Ashland Inc.
Project/Site: Ashland Brunswick Groundwater RFI

TestAmerica Job ID: 680-86980-1

Client Sample ID: Trip Blank
Date Collected: 01/30/13 00:00
Date Received: 01/31/13 09:42

Lab Sample ID: 680-86980-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.0		25	5.0	ug/L			02/04/13 17:33	1
Acetonitrile	<10		40	10	ug/L			02/04/13 17:33	1
Acrolein	<7.4		20	7.4	ug/L			02/04/13 17:33	1
Acrylonitrile	<7.2		20	7.2	ug/L			02/04/13 17:33	1
Benzene	<0.25		1.0	0.25	ug/L			02/04/13 17:33	1
Dichlorobromomethane	<0.25		1.0	0.25	ug/L			02/04/13 17:33	1
Bromoform	<0.50		1.0	0.50	ug/L			02/04/13 17:33	1
Bromomethane	<0.80		1.0	0.80	ug/L			02/04/13 17:33	1
2-Butanone (MEK)	<1.0		10	1.0	ug/L			02/04/13 17:33	1
Carbon disulfide	<0.60		2.0	0.60	ug/L			02/04/13 17:33	1
Carbon tetrachloride	<0.50		1.0	0.50	ug/L			02/04/13 17:33	1
Chlorobenzene	<0.25		1.0	0.25	ug/L			02/04/13 17:33	1
Chloroethane	<1.0		1.0	1.0	ug/L			02/04/13 17:33	1
Chloroform	<0.14		1.0	0.14	ug/L			02/04/13 17:33	1
Chloromethane	<0.33		1.0	0.33	ug/L			02/04/13 17:33	1
2-Chloro-1,3-butadiene	<0.30		1.0	0.30	ug/L			02/04/13 17:33	1
3-Chloro-1-propene	<0.20		1.0	0.20	ug/L			02/04/13 17:33	1
Chlorodibromomethane	<0.10		1.0	0.10	ug/L			02/04/13 17:33	1
1,1,1,2-Tetrachloroethane	<0.33		1.0	0.33	ug/L			02/04/13 17:33	1
1,2-Dibromo-3-Chloropropane	<0.44		1.0	0.44	ug/L			02/04/13 17:33	1
Ethylene Dibromide	<0.25		1.0	0.25	ug/L			02/04/13 17:33	1
Dibromomethane	<0.20		1.0	0.20	ug/L			02/04/13 17:33	1
trans-1,4-Dichloro-2-butene	<0.50		2.0	0.50	ug/L			02/04/13 17:33	1
Dichlorodifluoromethane	<0.25		1.0	0.25	ug/L			02/04/13 17:33	1
1,1-Dichloroethane	<0.25		1.0	0.25	ug/L			02/04/13 17:33	1
1,2-Dichloroethane	<0.10		1.0	0.10	ug/L			02/04/13 17:33	1
1,1-Dichloroethene	<0.11		1.0	0.11	ug/L			02/04/13 17:33	1
cis-1,2-Dichloroethene	<0.15		1.0	0.15	ug/L			02/04/13 17:33	1
trans-1,2-Dichloroethene	<0.20		1.0	0.20	ug/L			02/04/13 17:33	1
1,2-Dichloropropane	<0.13		1.0	0.13	ug/L			02/04/13 17:33	1
cis-1,3-Dichloropropene	<0.11		1.0	0.11	ug/L			02/04/13 17:33	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			02/04/13 17:33	1
Ethylbenzene	<0.11		1.0	0.11	ug/L			02/04/13 17:33	1
Ethyl methacrylate	<0.25		1.0	0.25	ug/L			02/04/13 17:33	1
2-Hexanone	<1.0		10	1.0	ug/L			02/04/13 17:33	1
Iodomethane	<1.0		5.0	1.0	ug/L			02/04/13 17:33	1
Isobutyl alcohol	<11		40	11	ug/L			02/04/13 17:33	1
Methacrylonitrile	<3.3		20	3.3	ug/L			02/04/13 17:33	1
Methylene Chloride	<1.0		5.0	1.0	ug/L			02/04/13 17:33	1
Methyl methacrylate	<0.48		1.0	0.48	ug/L			02/04/13 17:33	1
4-Methyl-2-pentanone (MIBK)	<1.0		10	1.0	ug/L			02/04/13 17:33	1
Pentachloroethane	<1.2		5.0	1.2	ug/L			02/04/13 17:33	1
Propionitrile	<4.6		20	4.6	ug/L			02/04/13 17:33	1
Styrene	<0.11		1.0	0.11	ug/L			02/04/13 17:33	1
1,1,2,2-Tetrachloroethane	<0.18		1.0	0.18	ug/L			02/04/13 17:33	1
Tetrachloroethene	<0.15		1.0	0.15	ug/L			02/04/13 17:33	1
Toluene	<0.33		1.0	0.33	ug/L			02/04/13 17:33	1
1,1,1-Trichloroethane	<0.50		1.0	0.50	ug/L			02/04/13 17:33	1
1,1,2-Trichloroethane	<0.13		1.0	0.13	ug/L			02/04/13 17:33	1

Client: Ashland Inc.
Project/Site: Ashland Brunswick Groundwater RFI

TestAmerica Job ID: 680-86980-1

Client Sample ID: Trip Blank
Date Collected: 01/30/13 00:00
Date Received: 01/31/13 09:42

Lab Sample ID: 680-86980-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	<0.13		1.0	0.13	ug/L			02/04/13 17:33	1
Trichlorofluoromethane	<0.25		1.0	0.25	ug/L			02/04/13 17:33	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			02/04/13 17:33	1
Vinyl acetate	<0.28	*	2.0	0.28	ug/L			02/04/13 17:33	1
Vinyl chloride	<0.18		1.0	0.18	ug/L			02/04/13 17:33	1
Xylenes, Total	<0.20		2.0	0.20	ug/L			02/04/13 17:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*108*		*70 - 130*		*02/04/13 17:33*	*1*
Dibromofluoromethane	*101*		*70 - 130*		*02/04/13 17:33*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*02/04/13 17:33*	*1*

Client Sample ID: Field Equipment Blank
Date Collected: 01/30/13 11:10
Date Received: 01/31/13 09:42

Lab Sample ID: 680-86980-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.0		25	5.0	ug/L			02/04/13 17:55	1
Acetonitrile	<10		40	10	ug/L			02/04/13 17:55	1
Acrolein	<7.4		20	7.4	ug/L			02/04/13 17:55	1
Acrylonitrile	<7.2		20	7.2	ug/L			02/04/13 17:55	1
Benzene	<0.25		1.0	0.25	ug/L			02/04/13 17:55	1
Dichlorobromomethane	<0.25		1.0	0.25	ug/L			02/04/13 17:55	1
Bromoform	<0.50		1.0	0.50	ug/L			02/04/13 17:55	1
Bromomethane	<0.80		1.0	0.80	ug/L			02/04/13 17:55	1
2-Butanone (MEK)	<1.0		10	1.0	ug/L			02/04/13 17:55	1
Carbon disulfide	<0.60		2.0	0.60	ug/L			02/04/13 17:55	1
Carbon tetrachloride	<0.50		1.0	0.50	ug/L			02/04/13 17:55	1
Chlorobenzene	<0.25		1.0	0.25	ug/L			02/04/13 17:55	1
Chloroethane	<1.0		1.0	1.0	ug/L			02/04/13 17:55	1
Chloroform	<0.14		1.0	0.14	ug/L			02/04/13 17:55	1
Chloromethane	<0.33		1.0	0.33	ug/L			02/04/13 17:55	1
2-Chloro-1,3-butadiene	<0.30		1.0	0.30	ug/L			02/04/13 17:55	1
3-Chloro-1-propene	<0.20		1.0	0.20	ug/L			02/04/13 17:55	1
Chlorodibromomethane	<0.10		1.0	0.10	ug/L			02/04/13 17:55	1
1,1,1,2-Tetrachloroethane	<0.33		1.0	0.33	ug/L			02/04/13 17:55	1
1,2-Dibromo-3-Chloropropane	<0.44		1.0	0.44	ug/L			02/04/13 17:55	1
Ethylene Dibromide	<0.25		1.0	0.25	ug/L			02/04/13 17:55	1
Dibromomethane	<0.20		1.0	0.20	ug/L			02/04/13 17:55	1
trans-1,4-Dichloro-2-butene	<0.50		2.0	0.50	ug/L			02/04/13 17:55	1
Dichlorodifluoromethane	<0.25		1.0	0.25	ug/L			02/04/13 17:55	1
1,1-Dichloroethane	<0.25		1.0	0.25	ug/L			02/04/13 17:55	1
1,2-Dichloroethane	<0.10		1.0	0.10	ug/L			02/04/13 17:55	1
1,1-Dichloroethene	<0.11		1.0	0.11	ug/L			02/04/13 17:55	1
cis-1,2-Dichloroethene	<0.15		1.0	0.15	ug/L			02/04/13 17:55	1
trans-1,2-Dichloroethene	<0.20		1.0	0.20	ug/L			02/04/13 17:55	1
1,2-Dichloropropane	<0.13		1.0	0.13	ug/L			02/04/13 17:55	1
cis-1,3-Dichloropropene	<0.11		1.0	0.11	ug/L			02/04/13 17:55	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			02/04/13 17:55	1
Ethylbenzene	<0.11		1.0	0.11	ug/L			02/04/13 17:55	1
Ethyl methacrylate	<0.25		1.0	0.25	ug/L			02/04/13 17:55	1
2-Hexanone	<1.0		10	1.0	ug/L			02/04/13 17:55	1
Iodomethane	<1.0		5.0	1.0	ug/L			02/04/13 17:55	1
Isobutyl alcohol	<11		40	11	ug/L			02/04/13 17:55	1
Methacrylonitrile	<3.3		20	3.3	ug/L			02/04/13 17:55	1
Methylene Chloride	<1.0		5.0	1.0	ug/L			02/04/13 17:55	1
Methyl methacrylate	<0.48		1.0	0.48	ug/L			02/04/13 17:55	1
4-Methyl-2-pentanone (MIBK)	<1.0		10	1.0	ug/L			02/04/13 17:55	1
Pentachloroethane	<1.2		5.0	1.2	ug/L			02/04/13 17:55	1
Propionitrile	<4.6		20	4.6	ug/L			02/04/13 17:55	1
Styrene	<0.11		1.0	0.11	ug/L			02/04/13 17:55	1
1,1,2,2-Tetrachloroethane	<0.18		1.0	0.18	ug/L			02/04/13 17:55	1
Tetrachloroethene	<0.15		1.0	0.15	ug/L			02/04/13 17:55	1
Toluene	<0.33		1.0	0.33	ug/L			02/04/13 17:55	1
1,1,1-Trichloroethane	<0.50		1.0	0.50	ug/L			02/04/13 17:55	1
1,1,2-Trichloroethane	<0.13		1.0	0.13	ug/L			02/04/13 17:55	1

Client: Ashland Inc.
Project/Site: Ashland Brunswick Groundwater RFI

TestAmerica Job ID: 680-86980-1

Client Sample ID: Field Equipment Blank
Date Collected: 01/30/13 11:10
Date Received: 01/31/13 09:42

Lab Sample ID: 680-86980-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	<0.13		1.0	0.13	ug/L			02/04/13 17:55	1
Trichlorofluoromethane	<0.25		1.0	0.25	ug/L			02/04/13 17:55	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			02/04/13 17:55	1
Vinyl acetate	<0.28	*	2.0	0.28	ug/L			02/04/13 17:55	1
Vinyl chloride	<0.18		1.0	0.18	ug/L			02/04/13 17:55	1
Xylenes, Total	<0.20		2.0	0.20	ug/L			02/04/13 17:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*87*		*70 - 130*		*02/04/13 17:55*	*1*
Dibromofluoromethane	*72*		*70 - 130*		*02/04/13 17:55*	*1*
Toluene-d8 (Surr)	*90*		*70 - 130*		*02/04/13 17:55*	*1*

Method: 8081A_8082 - Organochlorine Pesticides & PCBs (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	<0.0056		0.049	0.0056	ug/L		02/01/13 14:58	02/11/13 10:18	1
gamma-BHC (Lindane)	<0.0058		0.049	0.0058	ug/L		02/01/13 14:58	02/11/13 10:18	1
Toxaphene, Technical	<0.49		4.9	0.49	ug/L		02/01/13 14:58	02/11/13 10:18	1
Toxaphene, TAUC, Parlar 11-69	<0.49		4.9	0.49	ug/L		02/01/13 14:58	02/11/13 10:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*6*	*X*	*22 - 130*	*02/01/13 14:58*	*02/11/13 10:18*	*1*
DCB Decachlorobiphenyl	*3*	*p X*	*22 - 130*	*02/01/13 14:58*	*02/11/13 10:18*	*1*
Tetrachloro-m-xylene	*19*	*X*	*53 - 130*	*02/01/13 14:58*	*02/11/13 10:18*	*1*
Tetrachloro-m-xylene	*18*	*X*	*53 - 130*	*02/01/13 14:58*	*02/11/13 10:18*	*1*

Surrogate Summary

Client: Ashland Inc.
Project/Site: Ashland Brunswick Groundwater RFI

TestAmerica Job ID: 680-86980-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)
680-86980-1	HP-III-59 89-99'	111	105	97
680-86980-2	HP-III-60A 20-26'	107	105	100
680-86980-3	HP-III-60B 50-56'	106	103	99
680-86980-4	HP-III-60C 75-86'	111	104	99
680-86980-5	Trip Blank	108	101	100
680-86980-6	Field Equipment Blank	87	72	90
LCS 680-265011/4	Lab Control Sample	102	113	107
LCS 680-265220/4	Lab Control Sample	101	112	108
LCSD 680-265011/8	Lab Control Sample Dup	102	112	107
LCSD 680-265220/6	Lab Control Sample Dup	103	114	108
MB 680-265011/7	Method Blank	110	106	99
MB 680-265220/7	Method Blank	110	105	99

Surrogate Legend

BFB = 4-Bromofluorobenzene

DBFM = Dibromofluoromethane

TOL = Toluene-d8 (Surr)

Method: 8081A_8082 - Organochlorine Pesticides & PCBs (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(22-130)	(22-130)	(53-130)	(53-130)
680-86980-1	HP-III-59 89-99'	14 X	9 p X	42 X	33 X
680-86980-1 MS	HP-III-59 89-99'	13 X	10 X	37 X	29 X
680-86980-1 MSD	HP-III-59 89-99'	10 X	8 X	38 X	31 X
680-86980-2	HP-III-60A 20-26'	11 X	5 p X	40 X	39 X
680-86980-2 MS	HP-III-60A 20-26'	9 X	7 X	56	54
680-86980-2 MSD	HP-III-60A 20-26'	8 X	6 X	37 X	35 X
680-86980-3	HP-III-60B 50-56'	23	22	58	57
680-86980-4	HP-III-60C 75-86'	11 X	8 X	73	99
680-86980-6	Field Equipment Blank	6 X	3 p X	19 X	18 X
LCS 680-264748/11-A	Lab Control Sample	69	57	62	60
LCS 680-264748/17-A	Lab Control Sample	51	51	70	69
MB 680-264748/10-A	Method Blank	39	39	72	71

Surrogate Legend

DCB = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-265011/7
Matrix: Water
Analysis Batch: 265011

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.0		25	5.0	ug/L			02/04/13 12:06	1
Acetonitrile	<10		40	10	ug/L			02/04/13 12:06	1
Acrolein	<7.4		20	7.4	ug/L			02/04/13 12:06	1
Acrylonitrile	<7.2		20	7.2	ug/L			02/04/13 12:06	1
Benzene	<0.25		1.0	0.25	ug/L			02/04/13 12:06	1
Dichlorobromomethane	<0.25		1.0	0.25	ug/L			02/04/13 12:06	1
Bromoform	<0.50		1.0	0.50	ug/L			02/04/13 12:06	1
Bromomethane	<0.80		1.0	0.80	ug/L			02/04/13 12:06	1
2-Butanone (MEK)	<1.0		10	1.0	ug/L			02/04/13 12:06	1
Carbon disulfide	<0.60		2.0	0.60	ug/L			02/04/13 12:06	1
Carbon tetrachloride	<0.50		1.0	0.50	ug/L			02/04/13 12:06	1
Chlorobenzene	<0.25		1.0	0.25	ug/L			02/04/13 12:06	1
Chloroethane	<1.0		1.0	1.0	ug/L			02/04/13 12:06	1
Chloroform	<0.14		1.0	0.14	ug/L			02/04/13 12:06	1
Chloromethane	<0.33		1.0	0.33	ug/L			02/04/13 12:06	1
2-Chloro-1,3-butadiene	<0.30		1.0	0.30	ug/L			02/04/13 12:06	1
3-Chloro-1-propene	<0.20		1.0	0.20	ug/L			02/04/13 12:06	1
Chlorodibromomethane	<0.10		1.0	0.10	ug/L			02/04/13 12:06	1
1,1,1,2-Tetrachloroethane	<0.33		1.0	0.33	ug/L			02/04/13 12:06	1
1,2-Dibromo-3-Chloropropane	<0.44		1.0	0.44	ug/L			02/04/13 12:06	1
Ethylene Dibromide	<0.25		1.0	0.25	ug/L			02/04/13 12:06	1
Dibromomethane	<0.20		1.0	0.20	ug/L			02/04/13 12:06	1
trans-1,4-Dichloro-2-butene	<0.50		2.0	0.50	ug/L			02/04/13 12:06	1
Dichlorodifluoromethane	<0.25		1.0	0.25	ug/L			02/04/13 12:06	1
1,1-Dichloroethane	<0.25		1.0	0.25	ug/L			02/04/13 12:06	1
1,2-Dichloroethane	<0.10		1.0	0.10	ug/L			02/04/13 12:06	1
1,1-Dichloroethene	<0.11		1.0	0.11	ug/L			02/04/13 12:06	1
cis-1,2-Dichloroethene	<0.15		1.0	0.15	ug/L			02/04/13 12:06	1
trans-1,2-Dichloroethene	<0.20		1.0	0.20	ug/L			02/04/13 12:06	1
1,2-Dichloropropane	<0.13		1.0	0.13	ug/L			02/04/13 12:06	1
cis-1,3-Dichloropropene	<0.11		1.0	0.11	ug/L			02/04/13 12:06	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			02/04/13 12:06	1
Ethylbenzene	<0.11		1.0	0.11	ug/L			02/04/13 12:06	1
Ethyl methacrylate	<0.25		1.0	0.25	ug/L			02/04/13 12:06	1
2-Hexanone	<1.0		10	1.0	ug/L			02/04/13 12:06	1
Iodomethane	<1.0		5.0	1.0	ug/L			02/04/13 12:06	1
Isobutyl alcohol	<11		40	11	ug/L			02/04/13 12:06	1
Methacrylonitrile	<3.3		20	3.3	ug/L			02/04/13 12:06	1
Methylene Chloride	<1.0		5.0	1.0	ug/L			02/04/13 12:06	1
Methyl methacrylate	<0.48		1.0	0.48	ug/L			02/04/13 12:06	1
4-Methyl-2-pentanone (MIBK)	<1.0		10	1.0	ug/L			02/04/13 12:06	1
Pentachloroethane	<1.2		5.0	1.2	ug/L			02/04/13 12:06	1
Propionitrile	<4.6		20	4.6	ug/L			02/04/13 12:06	1
Styrene	<0.11		1.0	0.11	ug/L			02/04/13 12:06	1
1,1,2,2-Tetrachloroethane	<0.18		1.0	0.18	ug/L			02/04/13 12:06	1
Tetrachloroethene	<0.15		1.0	0.15	ug/L			02/04/13 12:06	1
Toluene	<0.33		1.0	0.33	ug/L			02/04/13 12:06	1
1,1,1-Trichloroethane	<0.50		1.0	0.50	ug/L			02/04/13 12:06	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-265011/7
Matrix: Water
Analysis Batch: 265011

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<0.13		1.0	0.13	ug/L			02/04/13 12:06	1
Trichloroethene	<0.13		1.0	0.13	ug/L			02/04/13 12:06	1
Trichlorofluoromethane	<0.25		1.0	0.25	ug/L			02/04/13 12:06	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			02/04/13 12:06	1
Vinyl acetate	<0.28		2.0	0.28	ug/L			02/04/13 12:06	1
Vinyl chloride	<0.18		1.0	0.18	ug/L			02/04/13 12:06	1
Xylenes, Total	<0.20		2.0	0.20	ug/L			02/04/13 12:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*110*		*70 - 130*		*02/04/13 12:06*	*1*
Dibromofluoromethane	*106*		*70 - 130*		*02/04/13 12:06*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*02/04/13 12:06*	*1*

Lab Sample ID: LCS 680-265011/4
Matrix: Water
Analysis Batch: 265011

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	100	94.8		ug/L		95	39 - 162
Benzene	50.0	50.6		ug/L		101	74 - 123
Dichlorobromomethane	50.0	49.9		ug/L		100	72 - 129
Bromoform	50.0	56.9		ug/L		114	60 - 134
Bromomethane	50.0	48.4		ug/L		97	10 - 171
2-Butanone (MEK)	100	96.5		ug/L		97	55 - 142
Carbon disulfide	50.0	57.7		ug/L		115	63 - 142
Carbon tetrachloride	50.0	51.0		ug/L		102	70 - 131
Chlorobenzene	50.0	50.6		ug/L		101	79 - 120
Chloroethane	50.0	55.8		ug/L		112	47 - 148
Chloroform	50.0	55.1		ug/L		110	76 - 128
Chloromethane	50.0	56.5		ug/L		113	47 - 151
Chlorodibromomethane	50.0	53.4		ug/L		107	63 - 134
1,1,1,2-Tetrachloroethane	50.0	47.6		ug/L		95	68 - 132
1,2-Dibromo-3-Chloropropane	50.0	53.0		ug/L		106	57 - 126
Ethylene Dibromide	50.0	56.4		ug/L		113	75 - 127
Dibromomethane	50.0	51.7		ug/L		103	75 - 122
Dichlorodifluoromethane	50.0	59.4		ug/L		119	41 - 165
1,1-Dichloroethane	50.0	60.0		ug/L		120	69 - 132
1,2-Dichloroethane	50.0	46.7		ug/L		93	75 - 120
1,1-Dichloroethene	50.0	58.8		ug/L		118	73 - 134
cis-1,2-Dichloroethene	50.0	55.9		ug/L		112	78 - 127
trans-1,2-Dichloroethene	50.0	55.7		ug/L		111	78 - 130
1,2-Dichloropropane	50.0	51.0		ug/L		102	71 - 126
cis-1,3-Dichloropropene	50.0	52.8		ug/L		106	73 - 128
trans-1,3-Dichloropropene	50.0	54.4		ug/L		109	72 - 127
Ethylbenzene	50.0	50.9		ug/L		102	78 - 125
2-Hexanone	100	88.9		ug/L		89	52 - 149
Methylene Chloride	50.0	56.0		ug/L		112	79 - 124
4-Methyl-2-pentanone (MIBK)	100	98.6		ug/L		99	51 - 143

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-265011/4
Matrix: Water
Analysis Batch: 265011

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Styrene	50.0	50.7		ug/L		101	75 - 129
1,1,2,2-Tetrachloroethane	50.0	47.4		ug/L		95	71 - 127
Tetrachloroethene	50.0	49.6		ug/L		99	77 - 128
Toluene	50.0	53.2		ug/L		106	77 - 125
1,1,1-Trichloroethane	50.0	59.5		ug/L		119	76 - 126
1,1,2-Trichloroethane	50.0	50.6		ug/L		101	69 - 127
Trichloroethene	50.0	49.6		ug/L		99	80 - 120
Trichlorofluoromethane	50.0	53.0		ug/L		106	66 - 144
1,2,3-Trichloropropane	50.0	50.7		ug/L		101	74 - 126
Vinyl acetate	100	221	*	ug/L		221	10 - 200
Vinyl chloride	50.0	55.9		ug/L		112	58 - 141
Xylenes, Total	150	153		ug/L		102	80 - 124

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*102*		*70 - 130*
Dibromofluoromethane	*113*		*70 - 130*
Toluene-d8 (Surr)	*107*		*70 - 130*

Lab Sample ID: LCSD 680-265011/8
Matrix: Water
Analysis Batch: 265011

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	100	95.0		ug/L		95	39 - 162	0	50
Benzene	50.0	51.1		ug/L		102	74 - 123	1	30
Dichlorobromomethane	50.0	48.4		ug/L		97	72 - 129	3	30
Bromoform	50.0	54.2		ug/L		108	60 - 134	5	30
Bromomethane	50.0	52.4		ug/L		105	10 - 171	8	50
2-Butanone (MEK)	100	94.6		ug/L		95	55 - 142	2	30
Carbon disulfide	50.0	57.1		ug/L		114	63 - 142	1	30
Carbon tetrachloride	50.0	49.8		ug/L		100	70 - 131	2	30
Chlorobenzene	50.0	50.5		ug/L		101	79 - 120	0	30
Chloroethane	50.0	56.5		ug/L		113	47 - 148	1	40
Chloroform	50.0	55.2		ug/L		110	76 - 128	0	30
Chloromethane	50.0	53.6		ug/L		107	47 - 151	5	30
Chlorodibromomethane	50.0	50.8		ug/L		102	63 - 134	5	50
1,1,1,2-Tetrachloroethane	50.0	46.0		ug/L		92	68 - 132	3	30
1,2-Dibromo-3-Chloropropane	50.0	49.5		ug/L		99	57 - 126	7	50
Ethylene Dibromide	50.0	56.0		ug/L		112	75 - 127	1	30
Dibromomethane	50.0	51.2		ug/L		102	75 - 122	1	30
Dichlorodifluoromethane	50.0	62.3		ug/L		125	41 - 165	5	50
1,1-Dichloroethane	50.0	56.8		ug/L		114	69 - 132	5	30
1,2-Dichloroethane	50.0	47.1		ug/L		94	75 - 120	1	30
1,1-Dichloroethene	50.0	58.8		ug/L		118	73 - 134	0	30
cis-1,2-Dichloroethene	50.0	56.0		ug/L		112	78 - 127	0	30
trans-1,2-Dichloroethene	50.0	55.4		ug/L		111	78 - 130	0	30
1,2-Dichloropropane	50.0	50.6		ug/L		101	71 - 126	1	30
cis-1,3-Dichloropropene	50.0	51.6		ug/L		103	73 - 128	2	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-265011/8
Matrix: Water
Analysis Batch: 265011

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
trans-1,3-Dichloropropene			50.0	53.2		ug/L		106	72 - 127	2	50
Ethylbenzene			50.0	50.4		ug/L		101	78 - 125	1	30
2-Hexanone			100	86.7		ug/L		87	52 - 149	3	30
Methylene Chloride			50.0	54.7		ug/L		109	79 - 124	2	30
4-Methyl-2-pentanone (MIBK)			100	97.2		ug/L		97	51 - 143	1	30
Styrene			50.0	50.8		ug/L		102	75 - 129	0	30
1,1,2,2-Tetrachloroethane			50.0	47.0		ug/L		94	71 - 127	1	30
Tetrachloroethene			50.0	49.7		ug/L		99	77 - 128	0	30
Toluene			50.0	53.1		ug/L		106	77 - 125	0	30
1,1,1-Trichloroethane			50.0	58.7		ug/L		117	76 - 126	1	30
1,1,2-Trichloroethane			50.0	49.9		ug/L		100	69 - 127	1	30
Trichloroethene			50.0	49.7		ug/L		99	80 - 120	0	30
Trichlorofluoromethane			50.0	54.7		ug/L		109	66 - 144	3	30
1,2,3-Trichloropropane			50.0	49.3		ug/L		99	74 - 126	3	30
Vinyl acetate			100	205	*	ug/L		205	10 - 200	7	30
Vinyl chloride			50.0	54.4		ug/L		109	58 - 141	3	30
Xylenes, Total			150	152		ug/L		101	80 - 124	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*102*		*70 - 130*
Dibromofluoromethane	*112*		*70 - 130*
Toluene-d8 (Surr)	*107*		*70 - 130*

Lab Sample ID: MB 680-265220/7
Matrix: Water
Analysis Batch: 265220

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.0		25	5.0	ug/L			02/05/13 12:15	1
Acetonitrile	<10		40	10	ug/L			02/05/13 12:15	1
Acrolein	<7.4		20	7.4	ug/L			02/05/13 12:15	1
Acrylonitrile	<7.2		20	7.2	ug/L			02/05/13 12:15	1
Benzene	<0.25		1.0	0.25	ug/L			02/05/13 12:15	1
Dichlorobromomethane	<0.25		1.0	0.25	ug/L			02/05/13 12:15	1
Bromoform	<0.50		1.0	0.50	ug/L			02/05/13 12:15	1
Bromomethane	<0.80		1.0	0.80	ug/L			02/05/13 12:15	1
2-Butanone (MEK)	<1.0		10	1.0	ug/L			02/05/13 12:15	1
Carbon disulfide	<0.60		2.0	0.60	ug/L			02/05/13 12:15	1
Carbon tetrachloride	<0.50		1.0	0.50	ug/L			02/05/13 12:15	1
Chlorobenzene	<0.25		1.0	0.25	ug/L			02/05/13 12:15	1
Chloroethane	<1.0		1.0	1.0	ug/L			02/05/13 12:15	1
Chloroform	<0.14		1.0	0.14	ug/L			02/05/13 12:15	1
Chloromethane	<0.33		1.0	0.33	ug/L			02/05/13 12:15	1
2-Chloro-1,3-butadiene	<0.30		1.0	0.30	ug/L			02/05/13 12:15	1
3-Chloro-1-propene	<0.20		1.0	0.20	ug/L			02/05/13 12:15	1
Chlorodibromomethane	<0.10		1.0	0.10	ug/L			02/05/13 12:15	1
1,1,1,2-Tetrachloroethane	<0.33		1.0	0.33	ug/L			02/05/13 12:15	1
1,2-Dibromo-3-Chloropropane	<0.44		1.0	0.44	ug/L			02/05/13 12:15	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-265220/7
Matrix: Water
Analysis Batch: 265220

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	<0.25		1.0	0.25	ug/L			02/05/13 12:15	1
Dibromomethane	<0.20		1.0	0.20	ug/L			02/05/13 12:15	1
trans-1,4-Dichloro-2-butene	<0.50		2.0	0.50	ug/L			02/05/13 12:15	1
Dichlorodifluoromethane	<0.25		1.0	0.25	ug/L			02/05/13 12:15	1
1,1-Dichloroethane	<0.25		1.0	0.25	ug/L			02/05/13 12:15	1
1,2-Dichloroethane	<0.10		1.0	0.10	ug/L			02/05/13 12:15	1
1,1-Dichloroethene	<0.11		1.0	0.11	ug/L			02/05/13 12:15	1
cis-1,2-Dichloroethene	<0.15		1.0	0.15	ug/L			02/05/13 12:15	1
trans-1,2-Dichloroethene	<0.20		1.0	0.20	ug/L			02/05/13 12:15	1
1,2-Dichloropropane	<0.13		1.0	0.13	ug/L			02/05/13 12:15	1
cis-1,3-Dichloropropene	<0.11		1.0	0.11	ug/L			02/05/13 12:15	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			02/05/13 12:15	1
Ethylbenzene	<0.11		1.0	0.11	ug/L			02/05/13 12:15	1
Ethyl methacrylate	<0.25		1.0	0.25	ug/L			02/05/13 12:15	1
2-Hexanone	<1.0		10	1.0	ug/L			02/05/13 12:15	1
Iodomethane	<1.0		5.0	1.0	ug/L			02/05/13 12:15	1
Isobutyl alcohol	<11		40	11	ug/L			02/05/13 12:15	1
Methacrylonitrile	<3.3		20	3.3	ug/L			02/05/13 12:15	1
Methylene Chloride	<1.0		5.0	1.0	ug/L			02/05/13 12:15	1
Methyl methacrylate	<0.48		1.0	0.48	ug/L			02/05/13 12:15	1
4-Methyl-2-pentanone (MIBK)	<1.0		10	1.0	ug/L			02/05/13 12:15	1
Pentachloroethane	<1.2		5.0	1.2	ug/L			02/05/13 12:15	1
Propionitrile	<4.6		20	4.6	ug/L			02/05/13 12:15	1
Styrene	<0.11		1.0	0.11	ug/L			02/05/13 12:15	1
1,1,2,2-Tetrachloroethane	<0.18		1.0	0.18	ug/L			02/05/13 12:15	1
Tetrachloroethene	<0.15		1.0	0.15	ug/L			02/05/13 12:15	1
Toluene	<0.33		1.0	0.33	ug/L			02/05/13 12:15	1
1,1,1-Trichloroethane	<0.50		1.0	0.50	ug/L			02/05/13 12:15	1
1,1,2-Trichloroethane	<0.13		1.0	0.13	ug/L			02/05/13 12:15	1
Trichloroethene	<0.13		1.0	0.13	ug/L			02/05/13 12:15	1
Trichlorofluoromethane	<0.25		1.0	0.25	ug/L			02/05/13 12:15	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			02/05/13 12:15	1
Vinyl acetate	<0.28		2.0	0.28	ug/L			02/05/13 12:15	1
Vinyl chloride	<0.18		1.0	0.18	ug/L			02/05/13 12:15	1
Xylenes, Total	<0.20		2.0	0.20	ug/L			02/05/13 12:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*110*		*70 - 130*		*02/05/13 12:15*	*1*
Dibromofluoromethane	*105*		*70 - 130*		*02/05/13 12:15*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*02/05/13 12:15*	*1*

Lab Sample ID: LCS 680-265220/4
Matrix: Water
Analysis Batch: 265220

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	100	75.8		ug/L		76	39 - 162
Benzene	50.0	51.8		ug/L		104	74 - 123

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-265220/4
Matrix: Water
Analysis Batch: 265220

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorobromomethane	50.0	50.1		ug/L		100	72 - 129
Bromoform	50.0	57.2		ug/L		114	60 - 134
Bromomethane	50.0	67.7		ug/L		135	10 - 171
2-Butanone (MEK)	100	90.6		ug/L		91	55 - 142
Carbon disulfide	50.0	45.0		ug/L		90	63 - 142
Carbon tetrachloride	50.0	52.9		ug/L		106	70 - 131
Chlorobenzene	50.0	49.5		ug/L		99	79 - 120
Chloroethane	50.0	54.1		ug/L		108	47 - 148
Chloroform	50.0	55.3		ug/L		111	76 - 128
Chloromethane	50.0	48.3		ug/L		97	47 - 151
Chlorodibromomethane	50.0	53.2		ug/L		106	63 - 134
1,1,1,2-Tetrachloroethane	50.0	47.4		ug/L		95	68 - 132
1,2-Dibromo-3-Chloropropane	50.0	52.0		ug/L		104	57 - 126
Ethylene Dibromide	50.0	56.7		ug/L		113	75 - 127
Dibromomethane	50.0	52.3		ug/L		105	75 - 122
Dichlorodifluoromethane	50.0	57.6		ug/L		115	41 - 165
1,1-Dichloroethane	50.0	58.9		ug/L		118	69 - 132
1,2-Dichloroethane	50.0	48.0		ug/L		96	75 - 120
1,1-Dichloroethene	50.0	44.9		ug/L		90	73 - 134
cis-1,2-Dichloroethene	50.0	54.8		ug/L		110	78 - 127
trans-1,2-Dichloroethene	50.0	50.9		ug/L		102	78 - 130
1,2-Dichloropropane	50.0	51.3		ug/L		103	71 - 126
cis-1,3-Dichloropropene	50.0	51.6		ug/L		103	73 - 128
trans-1,3-Dichloropropene	50.0	53.9		ug/L		108	72 - 127
Ethylbenzene	50.0	50.1		ug/L		100	78 - 125
2-Hexanone	100	90.9		ug/L		91	52 - 149
Methylene Chloride	50.0	41.2		ug/L		82	79 - 124
4-Methyl-2-pentanone (MIBK)	100	102		ug/L		102	51 - 143
Styrene	50.0	50.0		ug/L		100	75 - 129
1,1,2,2-Tetrachloroethane	50.0	48.4		ug/L		97	71 - 127
Tetrachloroethene	50.0	49.2		ug/L		98	77 - 128
Toluene	50.0	53.9		ug/L		108	77 - 125
1,1,1-Trichloroethane	50.0	60.7		ug/L		121	76 - 126
1,1,2-Trichloroethane	50.0	51.3		ug/L		103	69 - 127
Trichloroethene	50.0	50.6		ug/L		101	80 - 120
Trichlorofluoromethane	50.0	52.3		ug/L		105	66 - 144
1,2,3-Trichloropropane	50.0	50.7		ug/L		101	74 - 126
Vinyl acetate	100	113		ug/L		113	10 - 200
Vinyl chloride	50.0	53.7		ug/L		107	58 - 141
Xylenes, Total	150	151		ug/L		101	80 - 124

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*70 - 130*
Dibromofluoromethane	*112*		*70 - 130*
Toluene-d8 (Surr)	*108*		*70 - 130*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-265220/6
Matrix: Water
Analysis Batch: 265220

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	100	93.0		ug/L		93	39 - 162	20	50
Benzene	50.0	51.8		ug/L		104	74 - 123	0	30
Dichlorobromomethane	50.0	49.0		ug/L		98	72 - 129	2	30
Bromoform	50.0	55.6		ug/L		111	60 - 134	3	30
Bromomethane	50.0	71.0		ug/L		142	10 - 171	5	50
2-Butanone (MEK)	100	101		ug/L		101	55 - 142	11	30
Carbon disulfide	50.0	57.8		ug/L		116	63 - 142	25	30
Carbon tetrachloride	50.0	51.4		ug/L		103	70 - 131	3	30
Chlorobenzene	50.0	50.3		ug/L		101	79 - 120	2	30
Chloroethane	50.0	55.1		ug/L		110	47 - 148	2	40
Chloroform	50.0	56.7		ug/L		113	76 - 128	3	30
Chloromethane	50.0	51.0		ug/L		102	47 - 151	5	30
Chlorodibromomethane	50.0	52.1		ug/L		104	63 - 134	2	50
1,1,1,2-Tetrachloroethane	50.0	47.6		ug/L		95	68 - 132	0	30
1,2-Dibromo-3-Chloropropane	50.0	50.0		ug/L		100	57 - 126	4	50
Ethylene Dibromide	50.0	56.3		ug/L		113	75 - 127	1	30
Dibromomethane	50.0	51.9		ug/L		104	75 - 122	1	30
Dichlorodifluoromethane	50.0	61.6		ug/L		123	41 - 165	7	50
1,1-Dichloroethane	50.0	36.1	*	ug/L		72	69 - 132	48	30
1,2-Dichloroethane	50.0	47.4		ug/L		95	75 - 120	1	30
1,1-Dichloroethene	50.0	59.6		ug/L		119	73 - 134	28	30
cis-1,2-Dichloroethene	50.0	57.6		ug/L		115	78 - 127	5	30
trans-1,2-Dichloroethene	50.0	57.3		ug/L		115	78 - 130	12	30
1,2-Dichloropropane	50.0	49.9		ug/L		100	71 - 126	3	30
cis-1,3-Dichloropropene	50.0	50.3		ug/L		101	73 - 128	3	30
trans-1,3-Dichloropropene	50.0	52.1		ug/L		104	72 - 127	3	50
Ethylbenzene	50.0	50.9		ug/L		102	78 - 125	2	30
2-Hexanone	100	90.4		ug/L		90	52 - 149	1	30
Methylene Chloride	50.0	55.4		ug/L		111	79 - 124	29	30
4-Methyl-2-pentanone (MIBK)	100	100		ug/L		100	51 - 143	2	30
Styrene	50.0	51.2		ug/L		102	75 - 129	2	30
1,1,2,2-Tetrachloroethane	50.0	48.0		ug/L		96	71 - 127	1	30
Tetrachloroethene	50.0	50.5		ug/L		101	77 - 128	3	30
Toluene	50.0	53.2		ug/L		106	77 - 125	1	30
1,1,1-Trichloroethane	50.0	59.7		ug/L		119	76 - 126	2	30
1,1,2-Trichloroethane	50.0	50.6		ug/L		101	69 - 127	1	30
Trichloroethene	50.0	50.0		ug/L		100	80 - 120	1	30
Trichlorofluoromethane	50.0	56.1		ug/L		112	66 - 144	7	30
1,2,3-Trichloropropane	50.0	50.9		ug/L		102	74 - 126	0	30
Vinyl acetate	100	65.7	*	ug/L		66	10 - 200	53	30
Vinyl chloride	50.0	51.3		ug/L		103	58 - 141	5	30
Xylenes, Total	150	153		ug/L		102	80 - 124	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*103*		*70 - 130*
Dibromofluoromethane	*114*		*70 - 130*
Toluene-d8 (Surr)	*108*		*70 - 130*

Method: 8081A_8082 - Organochlorine Pesticides & PCBs (GC)

Lab Sample ID: MB 680-264748/10-A
Matrix: Water
Analysis Batch: 266109

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 264748

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	<0.0057		0.050	0.0057	ug/L		02/01/13 14:58	02/12/13 14:19	1
gamma-BHC (Lindane)	<0.0059		0.050	0.0059	ug/L		02/01/13 14:58	02/12/13 14:19	1
Toxaphene, Technical	<0.50		5.0	0.50	ug/L		02/01/13 14:58	02/12/13 14:19	1
Toxaphene, TAUC, Parlar 11-69	<0.50		5.0	0.50	ug/L		02/01/13 14:58	02/12/13 14:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*39*		*22 - 130*	*02/01/13 14:58*	*02/12/13 14:19*	*1*
DCB Decachlorobiphenyl	*39*		*22 - 130*	*02/01/13 14:58*	*02/12/13 14:19*	*1*
Tetrachloro-m-xylene	*72*		*53 - 130*	*02/01/13 14:58*	*02/12/13 14:19*	*1*
Tetrachloro-m-xylene	*71*		*53 - 130*	*02/01/13 14:58*	*02/12/13 14:19*	*1*

Lab Sample ID: LCS 680-264748/11-A
Matrix: Water
Analysis Batch: 265953

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 264748

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
alpha-BHC	0.100	0.0801		ug/L		80	43 - 138
gamma-BHC (Lindane)	0.100	0.0820		ug/L		82	54 - 134

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*69*		*22 - 130*
DCB Decachlorobiphenyl	*57*		*22 - 130*
Tetrachloro-m-xylene	*62*		*53 - 130*
Tetrachloro-m-xylene	*60*		*53 - 130*

Lab Sample ID: LCS 680-264748/17-A
Matrix: Water
Analysis Batch: 265953

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 264748

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toxaphene, Technical	10.0	8.79		ug/L		88	35 - 138
Toxaphene, TAUC, Parlar 11-69	10.0	8.46		ug/L		85	35 - 138

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*51*		*22 - 130*
DCB Decachlorobiphenyl	*51*		*22 - 130*
Tetrachloro-m-xylene	*70*		*53 - 130*
Tetrachloro-m-xylene	*69*		*53 - 130*

Lab Sample ID: 680-86980-1 MS
Matrix: Water
Analysis Batch: 265953

Client Sample ID: HP-III-59 89-99'
Prep Type: Total/NA
Prep Batch: 264748

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
alpha-BHC	<0.0057		0.0998	0.0619	p	ug/L		62	43 - 138
gamma-BHC (Lindane)	<0.0059		0.0998	0.101		ug/L		102	54 - 134

Method: 8081A_8082 - Organochlorine Pesticides & PCBs (GC) (Continued)

Lab Sample ID: 680-86980-1 MS
Matrix: Water
Analysis Batch: 265953

Client Sample ID: HP-III-59 89-99'
Prep Type: Total/NA
Prep Batch: 264748

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl	13	X	22 - 130
DCB Decachlorobiphenyl	10	X	22 - 130
Tetrachloro-m-xylene	37	X	53 - 130
Tetrachloro-m-xylene	29	X	53 - 130

Lab Sample ID: 680-86980-1 MSD
Matrix: Water
Analysis Batch: 265953

Client Sample ID: HP-III-59 89-99'
Prep Type: Total/NA
Prep Batch: 264748

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
alpha-BHC	<0.0057		0.108	0.111	F	ug/L		103	43 - 138	57	50
gamma-BHC (Lindane)	<0.0059		0.108	0.119		ug/L		110	54 - 134	16	50

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl	10	X	22 - 130
DCB Decachlorobiphenyl	8	X	22 - 130
Tetrachloro-m-xylene	38	X	53 - 130
Tetrachloro-m-xylene	31	X	53 - 130

Lab Sample ID: 680-86980-2 MS
Matrix: Water
Analysis Batch: 265955

Client Sample ID: HP-III-60A 20-26'
Prep Type: Total/NA
Prep Batch: 264748

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Toxaphene, Technical	<0.50		10.0	4.22	J	ug/L		42	35 - 138
Toxaphene, TAUC, Parlar 11-69	2.8	J	10.0	4.42	J F	ug/L		16	35 - 138

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl	9	X	22 - 130
DCB Decachlorobiphenyl	7	X	22 - 130
Tetrachloro-m-xylene	56		53 - 130
Tetrachloro-m-xylene	54		53 - 130

Lab Sample ID: 680-86980-2 MSD
Matrix: Water
Analysis Batch: 265955

Client Sample ID: HP-III-60A 20-26'
Prep Type: Total/NA
Prep Batch: 264748

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toxaphene, Technical	<0.50		8.91	3.39	J	ug/L		38	35 - 138	22	50
Toxaphene, TAUC, Parlar 11-69	2.8	J	8.91	3.57	J F	ug/L		8	35 - 138	21	50

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl	8	X	22 - 130
DCB Decachlorobiphenyl	6	X	22 - 130
Tetrachloro-m-xylene	37	X	53 - 130
Tetrachloro-m-xylene	35	X	53 - 130

GC/MS VOA

Analysis Batch: 265011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-86980-2	HP-III-60A 20-26'	Total/NA	Water	8260B	
680-86980-3	HP-III-60B 50-56'	Total/NA	Water	8260B	
680-86980-5	Trip Blank	Total/NA	Water	8260B	
680-86980-6	Field Equipment Blank	Total/NA	Water	8260B	
LCS 680-265011/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-265011/8	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-265011/7	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 265220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-86980-1	HP-III-59 89-99'	Total/NA	Water	8260B	
680-86980-4	HP-III-60C 75-86'	Total/NA	Water	8260B	
LCS 680-265220/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-265220/6	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-265220/7	Method Blank	Total/NA	Water	8260B	

GC Semi VOA

Prep Batch: 264748

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-86980-1	HP-III-59 89-99'	Total/NA	Water	3520C	
680-86980-1 MS	HP-III-59 89-99'	Total/NA	Water	3520C	
680-86980-1 MSD	HP-III-59 89-99'	Total/NA	Water	3520C	
680-86980-2	HP-III-60A 20-26'	Total/NA	Water	3520C	
680-86980-2 MS	HP-III-60A 20-26'	Total/NA	Water	3520C	
680-86980-2 MSD	HP-III-60A 20-26'	Total/NA	Water	3520C	
680-86980-3	HP-III-60B 50-56'	Total/NA	Water	3520C	
680-86980-4	HP-III-60C 75-86'	Total/NA	Water	3520C	
680-86980-6	Field Equipment Blank	Total/NA	Water	3520C	
LCS 680-264748/11-A	Lab Control Sample	Total/NA	Water	3520C	
LCS 680-264748/17-A	Lab Control Sample	Total/NA	Water	3520C	
MB 680-264748/10-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 265953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-86980-1	HP-III-59 89-99'	Total/NA	Water	8081A_8082	264748
680-86980-1 MS	HP-III-59 89-99'	Total/NA	Water	8081A_8082	264748
680-86980-1 MSD	HP-III-59 89-99'	Total/NA	Water	8081A_8082	264748
680-86980-3	HP-III-60B 50-56'	Total/NA	Water	8081A_8082	264748
LCS 680-264748/11-A	Lab Control Sample	Total/NA	Water	8081A_8082	264748
LCS 680-264748/17-A	Lab Control Sample	Total/NA	Water	8081A_8082	264748

Analysis Batch: 265954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-86980-1	HP-III-59 89-99'	Total/NA	Water	8081A_8082	264748
680-86980-1 MS	HP-III-59 89-99'	Total/NA	Water	8081A_8082	264748
680-86980-1 MSD	HP-III-59 89-99'	Total/NA	Water	8081A_8082	264748
680-86980-3	HP-III-60B 50-56'	Total/NA	Water	8081A_8082	264748
LCS 680-264748/17-A	Lab Control Sample	Total/NA	Water	8081A_8082	264748

GC Semi VOA (Continued)

Analysis Batch: 265955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-86980-2	HP-III-60A 20-26'	Total/NA	Water	8081A_8082	264748
680-86980-2 MS	HP-III-60A 20-26'	Total/NA	Water	8081A_8082	264748
680-86980-2 MSD	HP-III-60A 20-26'	Total/NA	Water	8081A_8082	264748
680-86980-4	HP-III-60C 75-86'	Total/NA	Water	8081A_8082	264748
680-86980-6	Field Equipment Blank	Total/NA	Water	8081A_8082	264748

Analysis Batch: 265956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-86980-2	HP-III-60A 20-26'	Total/NA	Water	8081A_8082	264748
680-86980-2 MS	HP-III-60A 20-26'	Total/NA	Water	8081A_8082	264748
680-86980-2 MSD	HP-III-60A 20-26'	Total/NA	Water	8081A_8082	264748
680-86980-4	HP-III-60C 75-86'	Total/NA	Water	8081A_8082	264748
680-86980-6	Field Equipment Blank	Total/NA	Water	8081A_8082	264748

Analysis Batch: 266109

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-264748/10-A	Method Blank	Total/NA	Water	8081A_8082	264748

Analysis Batch: 266110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-264748/10-A	Method Blank	Total/NA	Water	8081A_8082	264748

Lab Chronicle

Client: Ashland Inc.
Project/Site: Ashland Brunswick Groundwater RFI

TestAmerica Job ID: 680-86980-1

Client Sample ID: HP-III-59 89-99'

Lab Sample ID: 680-86980-1

Date Collected: 01/29/13 17:55

Matrix: Water

Date Received: 01/31/13 09:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	5 mL	5 mL	265220	02/05/13 13:35	CAR	TAL SAV
Total/NA	Prep	3520C			503.8 mL	5 mL	264748	02/01/13 14:58	RBS	TAL SAV
Total/NA	Analysis	8081A_8082		1			265953	02/11/13 00:12	JK	TAL SAV
Total/NA	Analysis	8081A_8082		1			265954	02/11/13 00:12	JK	TAL SAV

Client Sample ID: HP-III-60A 20-26'

Lab Sample ID: 680-86980-2

Date Collected: 01/30/13 11:52

Matrix: Water

Date Received: 01/31/13 09:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	265011	02/04/13 18:39	JD	TAL SAV
Total/NA	Prep	3520C			500.4 mL	5 mL	264748	02/01/13 14:58	RBS	TAL SAV
Total/NA	Analysis	8081A_8082		1			265955	02/11/13 08:41	JK	TAL SAV
Total/NA	Analysis	8081A_8082		1			265956	02/11/13 08:41	JK	TAL SAV

Client Sample ID: HP-III-60B 50-56'

Lab Sample ID: 680-86980-3

Date Collected: 01/30/13 13:27

Matrix: Water

Date Received: 01/31/13 09:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	265011	02/04/13 19:01	JD	TAL SAV
Total/NA	Prep	3520C			998.1 mL	10 mL	264748	02/01/13 14:58	RBS	TAL SAV
Total/NA	Analysis	8081A_8082		1			265953	02/11/13 00:36	JK	TAL SAV
Total/NA	Analysis	8081A_8082		1			265954	02/11/13 00:36	JK	TAL SAV

Client Sample ID: HP-III-60C 75-86'

Lab Sample ID: 680-86980-4

Date Collected: 01/30/13 15:32

Matrix: Water

Date Received: 01/31/13 09:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	5 mL	5 mL	265220	02/05/13 13:56	CAR	TAL SAV
Total/NA	Prep	3520C			944.0 mL	10 mL	264748	02/01/13 14:58	RBS	TAL SAV
Total/NA	Analysis	8081A_8082		1			265955	02/11/13 09:53	JK	TAL SAV
Total/NA	Analysis	8081A_8082		1			265956	02/11/13 09:53	JK	TAL SAV

Client Sample ID: Trip Blank

Lab Sample ID: 680-86980-5

Date Collected: 01/30/13 00:00

Matrix: Water

Date Received: 01/31/13 09:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	265011	02/04/13 17:33	JD	TAL SAV

Lab Chronicle

Client: Ashland Inc.
Project/Site: Ashland Brunswick Groundwater RFI

TestAmerica Job ID: 680-86980-1

Client Sample ID: Field Equipment Blank

Lab Sample ID: 680-86980-6

Date Collected: 01/30/13 11:10

Matrix: Water

Date Received: 01/31/13 09:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	265011	02/04/13 17:55	JD	TAL SAV
Total/NA	Prep	3520C			1018.8 mL	10 mL	264748	02/01/13 14:58	RBS	TAL SAV
Total/NA	Analysis	8081A_8082		1			265955	02/11/13 10:18	JK	TAL SAV
Total/NA	Analysis	8081A_8082		1			265956	02/11/13 10:18	JK	TAL SAV

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

1 2 3 4 5 6 7 8 9 10 11 12 13

Savannah
5102 LaRoche Avenue
Savannah, GA 31404
phone 912.354.7858 fax 912.352.0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Dean Salisbury	Site Contact: Tim Hassett	Date:	COC No:
Hercules, Inc.	Tel/Fax: 803-404-5901	Lab Contact: Lidya Guiliza	Carrier:	___ of ___ COCs
Project Name: Groundwater RFI III	Analysis Turnaround Time			Job No.
Site: Former Hercules, Brunswick, Facility	Calendar (C) or Work Days (W) ____			SDG No.
P O #	TAT if different from Below ____ ☐ 2 week ☐ 1 week ☐ 2 days ☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	8260B-Appendix IX VOCs	8081B-Technical toxaphene, total area toxaphene (chlorinated camphene)	8081B-Alpha and Gamma BHC	Sample Specific Notes:
HP-III-59 89-~~90~~99'*	1/29/13	1755	G	Gw	5		x	x	x	
HP-III-60A ~~20~~ 20-26'	1/30/13	1152	G	Gw	5		x	x		
HP-III-60B 50-56'	1/30/13	1327	G	Gw	5		x	x		
HP-III-60C 78-86	1/30/13	1532	G	Gw	5		x	x		
Trip Blank					2		x			
Field Equipment Blank	1/30/13	1110	G	Gw	5		x	x	x	Contingent bubbles out of VOA

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months

Special Instructions/QC Requirements & Comments:
*2/1/13 Per D.Salisbury, depth corrected for ID HP-III-59
680-86980
0.2/0.6/0.4°c

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Heather Hight [signature]	Arcadis Inc	1/30/12 1500	[signature]	TA SV	1/31/13 0942
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

Login Sample Receipt Checklist

Client: Ashland Inc.

Job Number: 680-86980-1

Login Number: 86980

List Source: TestAmerica Savannah

List Number: 1

Creator: Conner, Keaton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.2, 0.4, 0.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	Insufficient volume received for MS/MSD.
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Ashland Inc.
TestAmerica Job ID: 680-86980-1
Project/Site: Ashland Brunswick Groundwater RFI

Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		0399-01	02-28-13
A2LA	ISO/IEC 17025		399.01	02-28-13
Alabama	State Program	4	41450	06-30-13
Alaska (UST)	State Program	10	UST-104	06-19-13
California	NELAP	9	3217CA	07-31-13
Colorado	State Program	8	N/A	12-31-12
Connecticut	State Program	1	PH-0161	03-31-13
Florida	NELAP	4	E87052	06-30-13
GA Dept. of Agriculture	State Program	4	N/A	12-31-13
Georgia	State Program	4	N/A	06-30-13
Georgia	State Program	4	803	06-30-13
Guam	State Program	9	09-005r	04-17-13
Hawaii	State Program	9	N/A	06-30-13
Illinois	NELAP	5	200022	11-30-12
Indiana	State Program	5	N/A	06-30-13
Iowa	State Program	7	353	07-01-13
Kentucky	State Program	4	90084	12-31-12
Kentucky (UST)	State Program	4	18	02-28-13
Louisiana	NELAP	6	30690	06-30-13
Louisiana	NELAP	6	LA100015	12-31-13
Maine	State Program	1	GA00006	08-16-14
Maryland	State Program	3	250	12-31-12
Massachusetts	State Program	1	M-GA006	06-30-13
Michigan	State Program	5	9925	06-30-13
Mississippi	State Program	4	N/A	06-30-13
Montana	State Program	8	CERT0081	12-31-12
Nebraska	State Program	7	TestAmerica-Savannah	06-30-13
New Jersey	NELAP	2	GA769	06-30-13
New Mexico	State Program	6	N/A	06-30-13
New York	NELAP	2	10842	04-01-13
North Carolina DENR	State Program	4	269	12-31-13
North Carolina DHHS	State Program	4	13701	07-31-13
Oklahoma	State Program	6	9984	08-31-13
Pennsylvania	NELAP	3	68-00474	06-30-13
Puerto Rico	State Program	2	GA00006	01-01-13
South Carolina	State Program	4	98001	06-30-13
Tennessee	State Program	4	TN02961	06-30-13
Texas	NELAP	6	T104704185-08-TX	11-30-13
USDA	Federal		SAV 3-04	04-07-14
Virginia	NELAP	3	460161	06-14-13
Washington	State Program	10	C1794	06-10-13
West Virginia	State Program	3	9950C	12-31-12
West Virginia DEP	State Program	3	94	06-30-13
Wisconsin	State Program	5	999819810	08-31-13
Wyoming	State Program	8	8TMS-Q	06-30-13

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-96759-1
Client Project/Site: Ashland Brunswick

For:
Ashland Inc.
Ashland Hercules Research Center
500 Hercules Rd Bldg 8139
Wilmington, Delaware 19808

Attn: Timothy Hassett

Kathryn Smith

Authorized for release by:
12/17/2013 5:59:27 PM

Kathryn Smith, Project Manager II
(912)354-7858
kathy.smith@testamericainc.com

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
*	LCS or LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
X	Surrogate is outside control limits
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Sample Summary

Client: Ashland Inc.
Project/Site: Ashland Brunswick

TestAmerica Job ID: 680-96759-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-96759-1	MW-55S	Water	12/04/13 12:46	12/04/13 15:15
680-96759-2	MW-55I	Water	12/04/13 11:55	12/04/13 15:15
680-96759-3	MW-55D	Water	12/04/13 10:10	12/04/13 15:15
680-96759-4	Dup-1	Water	12/04/13 00:00	12/04/13 15:15
680-96759-5	EB-1	Water	12/04/13 13:15	12/04/13 15:15
680-96759-6	Trip Blank	Water	12/04/13 00:00	12/04/13 15:15

Job ID: 680-96759-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Ashland Inc.

Project: Ashland Brunswick

Report Number: 680-96759-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 12/04/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt were 2.6º C, 2.8º C and 3.0º C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples MW-55S (680-96759-1), MW-55I (680-96759-2), MW-55D (680-96759-3), Dup-1 (680-96759-4), EB-1 (680-96759-5) and Trip Blank (680-96759-6) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 12/06/2013.

1,2,4-Trichlorobenzene was detected in method blank MB 680-306385/7 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

2-Butanone (MEK) failed the recovery criteria high for LCS 680-306385/4. 1,2,4-Trichlorobenzene failed the recovery criteria high for LCSD 680-306390/8.

Samples MW-55D (680-96759-3)[10X] and Dup-1 (680-96759-4)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the volatiles analysis.

All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC/MS) - LOW LEVEL

Samples MW-55S (680-96759-1), MW-55I (680-96759-2), MW-55D (680-96759-3), Dup-1 (680-96759-4) and EB-1 (680-96759-5) were analyzed for Semivolatile Organic Compounds (GC/MS) - Low level in accordance with EPA SW-846 Method 8270D. The samples were prepared on 12/05/2013 and analyzed on 12/13/2013 and 12/14/2013.

2,4,6-Tribromophenol (Surr), 2-Fluorobiphenyl, 2-Fluorophenol (Surr), Nitrobenzene-d5 (Surr), Phenol-d5 (Surr) and Terphenyl-d14 (Surr) failed the surrogate recovery criteria low for MW-55D (680-96759-3). 2,4,6-Tribromophenol (Surr), 2-Fluorobiphenyl, 2-Fluorophenol (Surr), Nitrobenzene-d5 (Surr), Phenol-d5 (Surr) and Terphenyl-d14 (Surr) failed the surrogate recovery criteria low for Dup-1 (680-96759-4). Refer to the QC report for details.

Job ID: 680-96759-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

Samples MW-55D (680-96759-3)[10X] and Dup-1 (680-96759-4)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the SVOAs analysis.

All other quality control parameters were within the acceptance limits.

PESTICIDES AND PCBS

Samples MW-55S (680-96759-1), MW-55I (680-96759-2), MW-55D (680-96759-3), Dup-1 (680-96759-4) and EB-1 (680-96759-5) were analyzed for Pesticides and PCBs in accordance with EPA SW-846 Method 8081B_8082A. The samples were prepared on 12/05/2013 and analyzed on 12/07/2013.

This method incorporates 2nd column confirmation. Corrective action is not taken for surrogate/spike compounds unless results from both columns are unacceptable. Results outside criteria are qualified.

Tetrachloro-m-xylene failed the surrogate recovery criteria low for MW-55S (680-96759-1). DCB Decachlorobiphenyl failed the surrogate recovery criteria low for MW-55I (680-96759-2). DCB Decachlorobiphenyl failed the surrogate recovery criteria low for MW-55D (680-96759-3). DCB Decachlorobiphenyl failed the surrogate recovery criteria low for Dup-1 (680-96759-4). Tetrachloro-m-xylene failed the surrogate recovery criteria low for LCS 680-306207/12-A. Refer to the QC report for details.

No other difficulties were encountered during the Pesticides and PCBs analysis.

All other quality control parameters were within the acceptance limits.

FORMALDEHYDE

Samples MW-55S (680-96759-1), MW-55I (680-96759-2), MW-55D (680-96759-3), Dup-1 (680-96759-4) and EB-1 (680-96759-5) were analyzed for formaldehyde in accordance with EPA SW-846 Method 8315A. The samples were prepared and analyzed on 12/05/2013.

No difficulties were encountered during the formaldehyde analysis.

All quality control parameters were within the acceptance limits.

TOTAL RECOVERABLE METALS (ICPMS)

Samples MW-55S (680-96759-1), MW-55I (680-96759-2), MW-55D (680-96759-3), Dup-1 (680-96759-4) and EB-1 (680-96759-5) were analyzed for total recoverable metals (ICPMS) in accordance with EPA SW-846 Method 6020. The samples were prepared on 12/05/2013 and analyzed on 12/06/2013.

No difficulties were encountered during the metals analysis.

All quality control parameters were within the acceptance limits.

Client Sample ID: MW-55S
Date Collected: 12/04/13 12:46
Date Received: 12/04/13 15:15

Lab Sample ID: 680-96759-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	6.0	J	25	5.0	ug/L			12/06/13 12:49	1
Benzene	1.0	U	1.0	0.25	ug/L			12/06/13 12:49	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/06/13 12:49	1
Carbon disulfide	0.82	J	2.0	0.60	ug/L			12/06/13 12:49	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			12/06/13 12:49	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			12/06/13 12:49	1
Chloroform	1.0	U	1.0	0.14	ug/L			12/06/13 12:49	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			12/06/13 12:49	1
1,2-Dichlorobenzene	1.0	U	1.0	0.21	ug/L			12/06/13 12:49	1
1,4-Dichlorobenzene	1.0	U	1.0	0.28	ug/L			12/06/13 12:49	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/06/13 12:49	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			12/06/13 12:49	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			12/06/13 12:49	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			12/06/13 12:49	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			12/06/13 12:49	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			12/06/13 12:49	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			12/06/13 12:49	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			12/06/13 12:49	1
Toluene	1.0	U	1.0	0.33	ug/L			12/06/13 12:49	1
1,2,4-Trichlorobenzene	1.0	U *	1.0	0.25	ug/L			12/06/13 12:49	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			12/06/13 12:49	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			12/06/13 12:49	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			12/06/13 12:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*70 - 130*		*12/06/13 12:49*	*1*
4-Bromofluorobenzene	*104*		*70 - 130*		*12/06/13 12:49*	*1*
Dibromofluoromethane	*120*		*70 - 130*		*12/06/13 12:49*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetophenone	1.0	U	1.0	0.10	ug/L		12/05/13 15:11	12/13/13 07:02	1
Benzo[g,h,i]perylene	0.21	U	0.21	0.10	ug/L		12/05/13 15:11	12/13/13 07:02	1
Dibenz(a,h)anthracene	0.21	U	0.21	0.10	ug/L		12/05/13 15:11	12/13/13 07:02	1
Indeno[1,2,3-cd]pyrene	0.21	U	0.21	0.10	ug/L		12/05/13 15:11	12/13/13 07:02	1
3 & 4 Methylphenol	2.1	U	2.1	0.69	ug/L		12/05/13 15:11	12/13/13 07:02	1
Naphthalene	0.21	U	0.21	0.10	ug/L		12/05/13 15:11	12/13/13 07:02	1
Phenol	1.0	U	1.0	0.14	ug/L		12/05/13 15:11	12/13/13 07:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*45*		*32 - 130*	*12/05/13 15:11*	*12/13/13 07:02*	*1*
2-Fluorobiphenyl	*54*		*34 - 130*	*12/05/13 15:11*	*12/13/13 07:02*	*1*
Terphenyl-d14 (Surr)	*79*		*36 - 130*	*12/05/13 15:11*	*12/13/13 07:02*	*1*
Phenol-d5 (Surr)	*29*		*27 - 130*	*12/05/13 15:11*	*12/13/13 07:02*	*1*
2-Fluorophenol (Surr)	*52*		*25 - 130*	*12/05/13 15:11*	*12/13/13 07:02*	*1*
2,4,6-Tribromophenol (Surr)	*69*		*30 - 130*	*12/05/13 15:11*	*12/13/13 07:02*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	0.050	U	0.050	0.0057	ug/L		12/05/13 15:11	12/07/13 18:06	1

Client: Ashland Inc.
Project/Site: Ashland Brunswick

TestAmerica Job ID: 680-96759-1

Client Sample ID: MW-55S
Date Collected: 12/04/13 12:46
Date Received: 12/04/13 15:15

Lab Sample ID: 680-96759-1
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
delta-BHC	0.050	U	0.050	0.0048	ug/L		12/05/13 15:11	12/07/13 18:06	1
gamma-BHC (Lindane)	0.050	U	0.050	0.0059	ug/L		12/05/13 15:11	12/07/13 18:06	1
Heptachlor	0.050	U	0.050	0.0069	ug/L		12/05/13 15:11	12/07/13 18:06	1
Toxaphene, Technical	5.0	U	5.0	0.50	ug/L		12/05/13 15:11	12/07/13 18:06	1
Toxaphene - Total	5.0	U	5.0	0.50	ug/L		12/05/13 15:11	12/07/13 18:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*25*		*22 - 130*	*12/05/13 15:11*	*12/07/13 18:06*	*1*
Tetrachloro-m-xylene	*45*	*X*	*53 - 130*	*12/05/13 15:11*	*12/07/13 18:06*	*1*

Method: 8315A - Carbonyl Compounds (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Formaldehyde	50	U	50	5.0	ug/L		12/05/13 08:23	12/05/13 12:46	1

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**2.8**		2.5	1.3	ug/L		12/05/13 15:59	12/06/13 16:56	1
Barium	**100**		5.0	1.3	ug/L		12/05/13 15:59	12/06/13 16:56	1
Cobalt	**0.64**		0.50	0.15	ug/L		12/05/13 15:59	12/06/13 16:56	1
Chromium	5.0	U	5.0	2.5	ug/L		12/05/13 15:59	12/06/13 16:56	1
Nickel	5.0	U	5.0	2.0	ug/L		12/05/13 15:59	12/06/13 16:56	1
Selenium	2.5	U	2.5	1.0	ug/L		12/05/13 15:59	12/06/13 16:56	1
Vanadium	**5.5**	**J**	10	3.8	ug/L		12/05/13 15:59	12/06/13 16:56	1
Zinc	20	U	20	8.3	ug/L		12/05/13 15:59	12/06/13 16:56	1

Client Sample ID: MW-55I
Date Collected: 12/04/13 11:55
Date Received: 12/04/13 15:15

Lab Sample ID: 680-96759-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			12/06/13 13:11	1
Benzene	1.0	U	1.0	0.25	ug/L			12/06/13 13:11	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/06/13 13:11	1
Carbon disulfide	**0.81**	**J**	2.0	0.60	ug/L			12/06/13 13:11	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			12/06/13 13:11	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			12/06/13 13:11	1
Chloroform	**1.2**		1.0	0.14	ug/L			12/06/13 13:11	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			12/06/13 13:11	1
1,2-Dichlorobenzene	1.0	U	1.0	0.21	ug/L			12/06/13 13:11	1
1,4-Dichlorobenzene	1.0	U	1.0	0.28	ug/L			12/06/13 13:11	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/06/13 13:11	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			12/06/13 13:11	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			12/06/13 13:11	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			12/06/13 13:11	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			12/06/13 13:11	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			12/06/13 13:11	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			12/06/13 13:11	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			12/06/13 13:11	1
Toluene	1.0	U	1.0	0.33	ug/L			12/06/13 13:11	1
1,2,4-Trichlorobenzene	1.0	U *	1.0	0.25	ug/L			12/06/13 13:11	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			12/06/13 13:11	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			12/06/13 13:11	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			12/06/13 13:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*70 - 130*		*12/06/13 13:11*	*1*
4-Bromofluorobenzene	*102*		*70 - 130*		*12/06/13 13:11*	*1*
Dibromofluoromethane	*120*		*70 - 130*		*12/06/13 13:11*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetophenone	**0.26**	**J**	0.97	0.097	ug/L		12/05/13 15:11	12/13/13 07:27	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.097	ug/L		12/05/13 15:11	12/13/13 07:27	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.097	ug/L		12/05/13 15:11	12/13/13 07:27	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.097	ug/L		12/05/13 15:11	12/13/13 07:27	1
3 & 4 Methylphenol	1.9	U	1.9	0.64	ug/L		12/05/13 15:11	12/13/13 07:27	1
Naphthalene	0.19	U	0.19	0.097	ug/L		12/05/13 15:11	12/13/13 07:27	1
Phenol	0.97	U	0.97	0.13	ug/L		12/05/13 15:11	12/13/13 07:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*39*		*32 - 130*	*12/05/13 15:11*	*12/13/13 07:27*	*1*
2-Fluorobiphenyl	*50*		*34 - 130*	*12/05/13 15:11*	*12/13/13 07:27*	*1*
Terphenyl-d14 (Surr)	*79*		*36 - 130*	*12/05/13 15:11*	*12/13/13 07:27*	*1*
Phenol-d5 (Surr)	*50*		*27 - 130*	*12/05/13 15:11*	*12/13/13 07:27*	*1*
2-Fluorophenol (Surr)	*47*		*25 - 130*	*12/05/13 15:11*	*12/13/13 07:27*	*1*
2,4,6-Tribromophenol (Surr)	*39*		*30 - 130*	*12/05/13 15:11*	*12/13/13 07:27*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	0.048	U	0.048	0.0054	ug/L		12/05/13 15:11	12/07/13 18:29	1

Client: Ashland Inc.
Project/Site: Ashland Brunswick

TestAmerica Job ID: 680-96759-1

Client Sample ID: MW-55I
Date Collected: 12/04/13 11:55
Date Received: 12/04/13 15:15

Lab Sample ID: 680-96759-2
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
delta-BHC	0.048	U	0.048	0.0046	ug/L		12/05/13 15:11	12/07/13 18:29	1
gamma-BHC (Lindane)	0.048	U	0.048	0.0056	ug/L		12/05/13 15:11	12/07/13 18:29	1
Heptachlor	0.048	U	0.048	0.0067	ug/L		12/05/13 15:11	12/07/13 18:29	1
Toxaphene, Technical	4.8	U	4.8	0.48	ug/L		12/05/13 15:11	12/07/13 18:29	1
Toxaphene - Total	4.8	U	4.8	0.48	ug/L		12/05/13 15:11	12/07/13 18:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*18*	*p X*	*22 - 130*	*12/05/13 15:11*	*12/07/13 18:29*	*1*
Tetrachloro-m-xylene	*57*		*53 - 130*	*12/05/13 15:11*	*12/07/13 18:29*	*1*

Method: 8315A - Carbonyl Compounds (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Formaldehyde	50	U	50	5.0	ug/L		12/05/13 08:23	12/05/13 12:58	1

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**9.3**		2.5	1.3	ug/L		12/05/13 15:59	12/06/13 17:03	1
Barium	**28**		5.0	1.3	ug/L		12/05/13 15:59	12/06/13 17:03	1
Cobalt	0.50	U	0.50	0.15	ug/L		12/05/13 15:59	12/06/13 17:03	1
Chromium	**2.9**	**J**	5.0	2.5	ug/L		12/05/13 15:59	12/06/13 17:03	1
Nickel	5.0	U	5.0	2.0	ug/L		12/05/13 15:59	12/06/13 17:03	1
Selenium	2.5	U	2.5	1.0	ug/L		12/05/13 15:59	12/06/13 17:03	1
Vanadium	10	U	10	3.8	ug/L		12/05/13 15:59	12/06/13 17:03	1
Zinc	20	U	20	8.3	ug/L		12/05/13 15:59	12/06/13 17:03	1

Client Sample ID: MW-55D
Date Collected: 12/04/13 10:10
Date Received: 12/04/13 15:15

Lab Sample ID: 680-96759-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	250	U	250	50	ug/L			12/06/13 15:13	10
Benzene	1000		10	2.5	ug/L			12/06/13 15:13	10
2-Butanone (MEK)	100	U *	100	10	ug/L			12/06/13 15:13	10
Carbon disulfide	20	U	20	6.0	ug/L			12/06/13 15:13	10
Carbon tetrachloride	10	U	10	5.0	ug/L			12/06/13 15:13	10
Chlorobenzene	520		10	2.5	ug/L			12/06/13 15:13	10
Chloroform	10	U	10	1.4	ug/L			12/06/13 15:13	10
cis-1,2-Dichloroethene	4.8	J	10	1.5	ug/L			12/06/13 15:13	10
1,2-Dichlorobenzene	8.3	J	10	2.1	ug/L			12/06/13 15:13	10
1,4-Dichlorobenzene	14		10	2.8	ug/L			12/06/13 15:13	10
1,1-Dichloroethane	10	U	10	2.5	ug/L			12/06/13 15:13	10
1,1-Dichloroethene	10	U	10	1.1	ug/L			12/06/13 15:13	10
1,2-Dichloropropane	10	U	10	1.3	ug/L			12/06/13 15:13	10
Ethylbenzene	64		10	1.1	ug/L			12/06/13 15:13	10
Methylene Chloride	50	U	50	10	ug/L			12/06/13 15:13	10
4-Methyl-2-pentanone (MIBK)	100	U	100	10	ug/L			12/06/13 15:13	10
p-Isopropyltoluene	12		10	1.3	ug/L			12/06/13 15:13	10
Tetrachloroethene	10	U	10	1.5	ug/L			12/06/13 15:13	10
Toluene	5.3	J	10	3.3	ug/L			12/06/13 15:13	10
1,2,4-Trichlorobenzene	10	U	10	2.5	ug/L			12/06/13 15:13	10
1,2,3-Trichloropropane	10	U	10	4.1	ug/L			12/06/13 15:13	10
Vinyl chloride	10	U	10	1.8	ug/L			12/06/13 15:13	10
Xylenes, Total	98		20	2.0	ug/L			12/06/13 15:13	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*70 - 130*		*12/06/13 15:13*	*10*
4-Bromofluorobenzene	*104*		*70 - 130*		*12/06/13 15:13*	*10*
Dibromofluoromethane	*112*		*70 - 130*		*12/06/13 15:13*	*10*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetophenone	9.5	U	9.5	0.95	ug/L		12/05/13 15:11	12/14/13 17:40	10
Benzo[g,h,i]perylene	1.9	U	1.9	0.95	ug/L		12/05/13 15:11	12/14/13 17:40	10
Dibenz(a,h)anthracene	1.9	U	1.9	0.95	ug/L		12/05/13 15:11	12/14/13 17:40	10
Indeno[1,2,3-cd]pyrene	1.9	U	1.9	0.95	ug/L		12/05/13 15:11	12/14/13 17:40	10
3 & 4 Methylphenol	19	U	19	6.3	ug/L		12/05/13 15:11	12/14/13 17:40	10
Naphthalene	1.9	U	1.9	0.95	ug/L		12/05/13 15:11	12/14/13 17:40	10
Phenol	9.5	U	9.5	1.2	ug/L		12/05/13 15:11	12/14/13 17:40	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*0*	*D*	*32 - 130*	*12/05/13 15:11*	*12/14/13 17:40*	*10*
2-Fluorobiphenyl	*0*	*D*	*34 - 130*	*12/05/13 15:11*	*12/14/13 17:40*	*10*
Terphenyl-d14 (Surr)	*0*	*D*	*36 - 130*	*12/05/13 15:11*	*12/14/13 17:40*	*10*
Phenol-d5 (Surr)	*0*	*D*	*27 - 130*	*12/05/13 15:11*	*12/14/13 17:40*	*10*
2-Fluorophenol (Surr)	*0*	*D*	*25 - 130*	*12/05/13 15:11*	*12/14/13 17:40*	*10*
2,4,6-Tribromophenol (Surr)	*0*	*D*	*30 - 130*	*12/05/13 15:11*	*12/14/13 17:40*	*10*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	0.090	p	0.047	0.0054	ug/L		12/05/13 15:11	12/07/13 18:52	1

Client: Ashland Inc.
Project/Site: Ashland Brunswick

TestAmerica Job ID: 680-96759-1

Client Sample ID: MW-55D
Date Collected: 12/04/13 10:10
Date Received: 12/04/13 15:15

Lab Sample ID: 680-96759-3
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
delta-BHC	0.31	p	0.047	0.0045	ug/L		12/05/13 15:11	12/07/13 18:52	1
gamma-BHC (Lindane)	0.047	U	0.047	0.0056	ug/L		12/05/13 15:11	12/07/13 18:52	1
Heptachlor	0.047	U	0.047	0.0066	ug/L		12/05/13 15:11	12/07/13 18:52	1
Toxaphene, Technical	4.7	U	4.7	0.47	ug/L		12/05/13 15:11	12/07/13 18:52	1
Toxaphene - Total	7.2		4.7	0.47	ug/L		12/05/13 15:11	12/07/13 18:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*11*	*X*	*22 - 130*	*12/05/13 15:11*	*12/07/13 18:52*	*1*
Tetrachloro-m-xylene	*62*		*53 - 130*	*12/05/13 15:11*	*12/07/13 18:52*	*1*

Method: 8315A - Carbonyl Compounds (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Formaldehyde	50	U	50	5.0	ug/L		12/05/13 08:23	12/05/13 13:10	1

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.7	J	2.5	1.3	ug/L		12/05/13 15:59	12/06/13 17:10	1
Barium	670		5.0	1.3	ug/L		12/05/13 15:59	12/06/13 17:10	1
Cobalt	1.5		0.50	0.15	ug/L		12/05/13 15:59	12/06/13 17:10	1
Chromium	5.0	U	5.0	2.5	ug/L		12/05/13 15:59	12/06/13 17:10	1
Nickel	5.0	U	5.0	2.0	ug/L		12/05/13 15:59	12/06/13 17:10	1
Selenium	2.5	U	2.5	1.0	ug/L		12/05/13 15:59	12/06/13 17:10	1
Vanadium	10	U	10	3.8	ug/L		12/05/13 15:59	12/06/13 17:10	1
Zinc	20	U	20	8.3	ug/L		12/05/13 15:59	12/06/13 17:10	1

Client Sample ID: Dup-1
Date Collected: 12/04/13 00:00
Date Received: 12/04/13 15:15

Lab Sample ID: 680-96759-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	250	U	250	50	ug/L			12/06/13 15:31	10
Benzene	1100		10	2.5	ug/L			12/06/13 15:31	10
2-Butanone (MEK)	100	U	100	10	ug/L			12/06/13 15:31	10
Carbon disulfide	20	U	20	6.0	ug/L			12/06/13 15:31	10
Carbon tetrachloride	10	U	10	5.0	ug/L			12/06/13 15:31	10
Chlorobenzene	590		10	2.5	ug/L			12/06/13 15:31	10
Chloroform	10	U	10	1.4	ug/L			12/06/13 15:31	10
cis-1,2-Dichloroethene	4.8	J	10	1.5	ug/L			12/06/13 15:31	10
1,2-Dichlorobenzene	8.2	J	10	2.1	ug/L			12/06/13 15:31	10
1,4-Dichlorobenzene	14		10	2.8	ug/L			12/06/13 15:31	10
1,1-Dichloroethane	10	U	10	2.5	ug/L			12/06/13 15:31	10
1,1-Dichloroethene	10	U	10	1.1	ug/L			12/06/13 15:31	10
1,2-Dichloropropane	10	U	10	1.3	ug/L			12/06/13 15:31	10
Ethylbenzene	66		10	1.1	ug/L			12/06/13 15:31	10
Methylene Chloride	50	U	50	10	ug/L			12/06/13 15:31	10
4-Methyl-2-pentanone (MIBK)	100	U	100	10	ug/L			12/06/13 15:31	10
p-Isopropyltoluene	14		10	1.3	ug/L			12/06/13 15:31	10
Tetrachloroethene	10	U	10	1.5	ug/L			12/06/13 15:31	10
Toluene	3.7	J	10	3.3	ug/L			12/06/13 15:31	10
1,2,4-Trichlorobenzene	10	U	10	2.5	ug/L			12/06/13 15:31	10
1,2,3-Trichloropropane	10	U	10	4.1	ug/L			12/06/13 15:31	10
Vinyl chloride	10	U	10	1.8	ug/L			12/06/13 15:31	10
Xylenes, Total	110		20	2.0	ug/L			12/06/13 15:31	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*70 - 130*		*12/06/13 15:31*	*10*
4-Bromofluorobenzene	*103*		*70 - 130*		*12/06/13 15:31*	*10*
Dibromofluoromethane	*111*		*70 - 130*		*12/06/13 15:31*	*10*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetophenone	9.6	U	9.6	0.96	ug/L		12/05/13 15:11	12/14/13 18:05	10
Benzo[g,h,i]perylene	1.9	U	1.9	0.96	ug/L		12/05/13 15:11	12/14/13 18:05	10
Dibenz(a,h)anthracene	1.9	U	1.9	0.96	ug/L		12/05/13 15:11	12/14/13 18:05	10
Indeno[1,2,3-cd]pyrene	1.9	U	1.9	0.96	ug/L		12/05/13 15:11	12/14/13 18:05	10
3 & 4 Methylphenol	19	U	19	6.3	ug/L		12/05/13 15:11	12/14/13 18:05	10
Naphthalene	1.9	U	1.9	0.96	ug/L		12/05/13 15:11	12/14/13 18:05	10
Phenol	9.6	U	9.6	1.2	ug/L		12/05/13 15:11	12/14/13 18:05	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*0*	*D*	*32 - 130*	*12/05/13 15:11*	*12/14/13 18:05*	*10*
2-Fluorobiphenyl	*0*	*D*	*34 - 130*	*12/05/13 15:11*	*12/14/13 18:05*	*10*
Terphenyl-d14 (Surr)	*0*	*D*	*36 - 130*	*12/05/13 15:11*	*12/14/13 18:05*	*10*
Phenol-d5 (Surr)	*0*	*D*	*27 - 130*	*12/05/13 15:11*	*12/14/13 18:05*	*10*
2-Fluorophenol (Surr)	*0*	*D*	*25 - 130*	*12/05/13 15:11*	*12/14/13 18:05*	*10*
2,4,6-Tribromophenol (Surr)	*0*	*D*	*30 - 130*	*12/05/13 15:11*	*12/14/13 18:05*	*10*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	0.10	p	0.048	0.0054	ug/L		12/05/13 15:11	12/07/13 19:14	1

Client: Ashland Inc.
Project/Site: Ashland Brunswick

TestAmerica Job ID: 680-96759-1

Client Sample ID: Dup-1
Date Collected: 12/04/13 00:00
Date Received: 12/04/13 15:15

Lab Sample ID: 680-96759-4
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
delta-BHC	0.38	p	0.048	0.0046	ug/L		12/05/13 15:11	12/07/13 19:14	1
gamma-BHC (Lindane)	0.048	U	0.048	0.0056	ug/L		12/05/13 15:11	12/07/13 19:14	1
Heptachlor	0.048	U	0.048	0.0067	ug/L		12/05/13 15:11	12/07/13 19:14	1
Toxaphene, Technical	4.8	U	4.8	0.48	ug/L		12/05/13 15:11	12/07/13 19:14	1
Toxaphene - Total	6.0	p	4.8	0.48	ug/L		12/05/13 15:11	12/07/13 19:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*11*	*X*	*22 - 130*	*12/05/13 15:11*	*12/07/13 19:14*	*1*
Tetrachloro-m-xylene	*68*		*53 - 130*	*12/05/13 15:11*	*12/07/13 19:14*	*1*

Method: 8315A - Carbonyl Compounds (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Formaldehyde	50	U	50	5.0	ug/L		12/05/13 08:23	12/05/13 14:10	1

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.6	J	2.5	1.3	ug/L		12/05/13 15:59	12/06/13 17:17	1
Barium	630		5.0	1.3	ug/L		12/05/13 15:59	12/06/13 17:17	1
Cobalt	1.4		0.50	0.15	ug/L		12/05/13 15:59	12/06/13 17:17	1
Chromium	5.0	U	5.0	2.5	ug/L		12/05/13 15:59	12/06/13 17:17	1
Nickel	5.0	U	5.0	2.0	ug/L		12/05/13 15:59	12/06/13 17:17	1
Selenium	2.5	U	2.5	1.0	ug/L		12/05/13 15:59	12/06/13 17:17	1
Vanadium	10	U	10	3.8	ug/L		12/05/13 15:59	12/06/13 17:17	1
Zinc	20	U	20	8.3	ug/L		12/05/13 15:59	12/06/13 17:17	1

Client Sample ID: EB-1
Date Collected: 12/04/13 13:15
Date Received: 12/04/13 15:15

Lab Sample ID: 680-96759-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			12/06/13 12:36	1
Benzene	1.0	U	1.0	0.25	ug/L			12/06/13 12:36	1
2-Butanone (MEK)	10	U *	10	1.0	ug/L			12/06/13 12:36	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			12/06/13 12:36	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			12/06/13 12:36	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			12/06/13 12:36	1
Chloroform	1.0	U	1.0	0.14	ug/L			12/06/13 12:36	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			12/06/13 12:36	1
1,2-Dichlorobenzene	1.0	U	1.0	0.21	ug/L			12/06/13 12:36	1
1,4-Dichlorobenzene	2.1		1.0	0.28	ug/L			12/06/13 12:36	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/06/13 12:36	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			12/06/13 12:36	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			12/06/13 12:36	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			12/06/13 12:36	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			12/06/13 12:36	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			12/06/13 12:36	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			12/06/13 12:36	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			12/06/13 12:36	1
Toluene	1.0	U	1.0	0.33	ug/L			12/06/13 12:36	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.25	ug/L			12/06/13 12:36	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			12/06/13 12:36	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			12/06/13 12:36	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			12/06/13 12:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*70 - 130*		*12/06/13 12:36*	*1*
4-Bromofluorobenzene	*98*		*70 - 130*		*12/06/13 12:36*	*1*
Dibromofluoromethane	*115*		*70 - 130*		*12/06/13 12:36*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetophenone	0.62	J	0.96	0.096	ug/L		12/05/13 15:11	12/13/13 08:43	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.096	ug/L		12/05/13 15:11	12/13/13 08:43	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.096	ug/L		12/05/13 15:11	12/13/13 08:43	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.096	ug/L		12/05/13 15:11	12/13/13 08:43	1
3 & 4 Methylphenol	1.9	U	1.9	0.63	ug/L		12/05/13 15:11	12/13/13 08:43	1
Naphthalene	0.19	U	0.19	0.096	ug/L		12/05/13 15:11	12/13/13 08:43	1
Phenol	0.51	J	0.96	0.12	ug/L		12/05/13 15:11	12/13/13 08:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*67*		*32 - 130*	*12/05/13 15:11*	*12/13/13 08:43*	*1*
2-Fluorobiphenyl	*65*		*34 - 130*	*12/05/13 15:11*	*12/13/13 08:43*	*1*
Terphenyl-d14 (Surr)	*95*		*36 - 130*	*12/05/13 15:11*	*12/13/13 08:43*	*1*
Phenol-d5 (Surr)	*63*		*27 - 130*	*12/05/13 15:11*	*12/13/13 08:43*	*1*
2-Fluorophenol (Surr)	*75*		*25 - 130*	*12/05/13 15:11*	*12/13/13 08:43*	*1*
2,4,6-Tribromophenol (Surr)	*63*		*30 - 130*	*12/05/13 15:11*	*12/13/13 08:43*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	0.056	U	0.056	0.0064	ug/L		12/05/13 15:11	12/07/13 19:37	1

Client: Ashland Inc.
Project/Site: Ashland Brunswick

TestAmerica Job ID: 680-96759-1

Client Sample ID: EB-1
Date Collected: 12/04/13 13:15
Date Received: 12/04/13 15:15

Lab Sample ID: 680-96759-5
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
delta-BHC	0.056	U	0.056	0.0054	ug/L		12/05/13 15:11	12/07/13 19:37	1
gamma-BHC (Lindane)	0.056	U	0.056	0.0066	ug/L		12/05/13 15:11	12/07/13 19:37	1
Heptachlor	0.056	U	0.056	0.0078	ug/L		12/05/13 15:11	12/07/13 19:37	1
Toxaphene, Technical	5.6	U	5.6	0.56	ug/L		12/05/13 15:11	12/07/13 19:37	1
Toxaphene - Total	5.6	U	5.6	0.56	ug/L		12/05/13 15:11	12/07/13 19:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*75*		*22 - 130*	*12/05/13 15:11*	*12/07/13 19:37*	*1*
Tetrachloro-m-xylene	*59*		*53 - 130*	*12/05/13 15:11*	*12/07/13 19:37*	*1*

Method: 8315A - Carbonyl Compounds (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Formaldehyde	50	U	50	5.0	ug/L		12/05/13 08:23	12/05/13 13:45	1

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.5	U	2.5	1.3	ug/L		12/05/13 15:59	12/06/13 17:25	1
Barium	5.0	U	5.0	1.3	ug/L		12/05/13 15:59	12/06/13 17:25	1
Cobalt	0.50	U	0.50	0.15	ug/L		12/05/13 15:59	12/06/13 17:25	1
Chromium	5.0	U	5.0	2.5	ug/L		12/05/13 15:59	12/06/13 17:25	1
Nickel	5.0	U	5.0	2.0	ug/L		12/05/13 15:59	12/06/13 17:25	1
Selenium	2.5	U	2.5	1.0	ug/L		12/05/13 15:59	12/06/13 17:25	1
Vanadium	10	U	10	3.8	ug/L		12/05/13 15:59	12/06/13 17:25	1
Zinc	20	U	20	8.3	ug/L		12/05/13 15:59	12/06/13 17:25	1

Client: Ashland Inc.
Project/Site: Ashland Brunswick

TestAmerica Job ID: 680-96759-1

Client Sample ID: Trip Blank
Date Collected: 12/04/13 00:00
Date Received: 12/04/13 15:15

Lab Sample ID: 680-96759-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			12/06/13 13:05	1
Benzene	1.0	U	1.0	0.25	ug/L			12/06/13 13:05	1
2-Butanone (MEK)	10	U *	10	1.0	ug/L			12/06/13 13:05	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			12/06/13 13:05	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			12/06/13 13:05	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			12/06/13 13:05	1
Chloroform	1.0	U	1.0	0.14	ug/L			12/06/13 13:05	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			12/06/13 13:05	1
1,2-Dichlorobenzene	1.0	U	1.0	0.21	ug/L			12/06/13 13:05	1
1,4-Dichlorobenzene	**2.3**		1.0	0.28	ug/L			12/06/13 13:05	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/06/13 13:05	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			12/06/13 13:05	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			12/06/13 13:05	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			12/06/13 13:05	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			12/06/13 13:05	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			12/06/13 13:05	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			12/06/13 13:05	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			12/06/13 13:05	1
Toluene	1.0	U	1.0	0.33	ug/L			12/06/13 13:05	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.25	ug/L			12/06/13 13:05	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			12/06/13 13:05	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			12/06/13 13:05	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			12/06/13 13:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*70 - 130*		*12/06/13 13:05*	*1*
4-Bromofluorobenzene	*102*		*70 - 130*		*12/06/13 13:05*	*1*
Dibromofluoromethane	*116*		*70 - 130*		*12/06/13 13:05*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-306385/7
Matrix: Water
Analysis Batch: 306385

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			12/06/13 11:34	1
Benzene	1.0	U	1.0	0.25	ug/L			12/06/13 11:34	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/06/13 11:34	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			12/06/13 11:34	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			12/06/13 11:34	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			12/06/13 11:34	1
Chloroform	1.0	U	1.0	0.14	ug/L			12/06/13 11:34	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			12/06/13 11:34	1
1,2-Dichlorobenzene	1.0	U	1.0	0.21	ug/L			12/06/13 11:34	1
1,4-Dichlorobenzene	1.0	U	1.0	0.28	ug/L			12/06/13 11:34	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/06/13 11:34	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			12/06/13 11:34	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			12/06/13 11:34	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			12/06/13 11:34	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			12/06/13 11:34	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			12/06/13 11:34	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			12/06/13 11:34	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			12/06/13 11:34	1
Toluene	1.0	U	1.0	0.33	ug/L			12/06/13 11:34	1
1,2,4-Trichlorobenzene	0.309	J	1.0	0.25	ug/L			12/06/13 11:34	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			12/06/13 11:34	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			12/06/13 11:34	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			12/06/13 11:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*70 - 130*		*12/06/13 11:34*	*1*
4-Bromofluorobenzene	*102*		*70 - 130*		*12/06/13 11:34*	*1*
Dibromofluoromethane	*116*		*70 - 130*		*12/06/13 11:34*	*1*

Lab Sample ID: LCS 680-306385/4
Matrix: Water
Analysis Batch: 306385

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	100	109		ug/L		109	39 - 162
Benzene	50.0	51.5		ug/L		103	74 - 123
2-Butanone (MEK)	100	159	*	ug/L		159	55 - 142
Carbon disulfide	50.0	47.2		ug/L		94	63 - 142
Carbon tetrachloride	50.0	44.7		ug/L		89	70 - 131
Chlorobenzene	50.0	53.2		ug/L		106	79 - 120
Chloroform	50.0	49.8		ug/L		100	76 - 128
cis-1,2-Dichloroethene	50.0	53.5		ug/L		107	78 - 127
1,2-Dichlorobenzene	50.0	60.2		ug/L		120	77 - 124
1,4-Dichlorobenzene	50.0	58.8		ug/L		118	76 - 124
1,1-Dichloroethane	50.0	48.9		ug/L		98	69 - 132
1,1-Dichloroethene	50.0	42.7		ug/L		85	73 - 134
1,2-Dichloropropane	50.0	46.8		ug/L		94	71 - 126
Ethylbenzene	50.0	52.7		ug/L		105	78 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-306385/4
Matrix: Water
Analysis Batch: 306385

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride	50.0	49.9		ug/L		100	79 - 124
4-Methyl-2-pentanone (MIBK)	100	117		ug/L		117	51 - 143
p-Isopropyltoluene	50.0	55.3		ug/L		111	69 - 129
Tetrachloroethene	50.0	51.0		ug/L		102	77 - 128
Toluene	50.0	57.3		ug/L		115	77 - 125
1,2,4-Trichlorobenzene	50.0	58.5		ug/L		117	67 - 134
1,2,3-Trichloropropane	50.0	48.8		ug/L		98	74 - 126
Vinyl chloride	50.0	45.1		ug/L		90	58 - 141
Xylenes, Total	150	154		ug/L		103	80 - 124

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*109*		*70 - 130*
4-Bromofluorobenzene	*103*		*70 - 130*
Dibromofluoromethane	*104*		*70 - 130*

Lab Sample ID: LCSD 680-306385/5
Matrix: Water
Analysis Batch: 306385

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	100	78.4		ug/L		78	39 - 162	33	50
Benzene	50.0	47.6		ug/L		95	74 - 123	8	30
2-Butanone (MEK)	100	126		ug/L		126	55 - 142	24	30
Carbon disulfide	50.0	35.4		ug/L		71	63 - 142	29	30
Carbon tetrachloride	50.0	39.2		ug/L		78	70 - 131	13	30
Chlorobenzene	50.0	50.4		ug/L		101	79 - 120	5	30
Chloroform	50.0	47.2		ug/L		94	76 - 128	5	30
cis-1,2-Dichloroethene	50.0	49.6		ug/L		99	78 - 127	8	30
1,2-Dichlorobenzene	50.0	57.1		ug/L		114	77 - 124	5	30
1,4-Dichlorobenzene	50.0	56.3		ug/L		113	76 - 124	4	30
1,1-Dichloroethane	50.0	45.0		ug/L		90	69 - 132	8	30
1,1-Dichloroethene	50.0	37.6		ug/L		75	73 - 134	13	30
1,2-Dichloropropane	50.0	49.1		ug/L		98	71 - 126	5	30
Ethylbenzene	50.0	48.8		ug/L		98	78 - 125	8	30
Methylene Chloride	50.0	43.8		ug/L		88	79 - 124	13	30
4-Methyl-2-pentanone (MIBK)	100	96.8		ug/L		97	51 - 143	19	30
p-Isopropyltoluene	50.0	52.5		ug/L		105	69 - 129	5	50
Tetrachloroethene	50.0	47.8		ug/L		96	77 - 128	6	30
Toluene	50.0	49.2		ug/L		98	77 - 125	15	30
1,2,4-Trichlorobenzene	50.0	55.6		ug/L		111	67 - 134	5	30
1,2,3-Trichloropropane	50.0	53.6		ug/L		107	74 - 126	9	30
Vinyl chloride	50.0	37.1		ug/L		74	58 - 141	19	30
Xylenes, Total	150	149		ug/L		100	80 - 124	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*70 - 130*
4-Bromofluorobenzene	*101*		*70 - 130*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-306385/5
Matrix: Water
Analysis Batch: 306385

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Dibromofluoromethane	99		70 - 130

Lab Sample ID: MB 680-306386/7
Matrix: Water
Analysis Batch: 306386

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			12/06/13 11:52	1
Benzene	1.0	U	1.0	0.25	ug/L			12/06/13 11:52	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/06/13 11:52	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			12/06/13 11:52	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			12/06/13 11:52	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			12/06/13 11:52	1
Chloroform	1.0	U	1.0	0.14	ug/L			12/06/13 11:52	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			12/06/13 11:52	1
1,2-Dichlorobenzene	1.0	U	1.0	0.21	ug/L			12/06/13 11:52	1
1,4-Dichlorobenzene	1.0	U	1.0	0.28	ug/L			12/06/13 11:52	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/06/13 11:52	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			12/06/13 11:52	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			12/06/13 11:52	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			12/06/13 11:52	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			12/06/13 11:52	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			12/06/13 11:52	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			12/06/13 11:52	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			12/06/13 11:52	1
Toluene	1.0	U	1.0	0.33	ug/L			12/06/13 11:52	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.25	ug/L			12/06/13 11:52	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			12/06/13 11:52	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			12/06/13 11:52	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			12/06/13 11:52	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		70 - 130		12/06/13 11:52	1
4-Bromofluorobenzene	100		70 - 130		12/06/13 11:52	1
Dibromofluoromethane	122		70 - 130		12/06/13 11:52	1

Lab Sample ID: LCS 680-306386/4
Matrix: Water
Analysis Batch: 306386

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	100	115		ug/L		115	39 - 162
Benzene	50.0	50.7		ug/L		101	74 - 123
2-Butanone (MEK)	100	110		ug/L		110	55 - 142
Carbon disulfide	50.0	54.2		ug/L		108	63 - 142
Carbon tetrachloride	50.0	46.0		ug/L		92	70 - 131
Chlorobenzene	50.0	53.6		ug/L		107	79 - 120
Chloroform	50.0	54.9		ug/L		110	76 - 128

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-306386/4
Matrix: Water
Analysis Batch: 306386

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,2-Dichloroethene	50.0	56.5		ug/L		113	78 - 127
1,2-Dichlorobenzene	50.0	53.3		ug/L		107	77 - 124
1,4-Dichlorobenzene	50.0	56.1		ug/L		112	76 - 124
1,1-Dichloroethane	50.0	54.3		ug/L		109	69 - 132
1,1-Dichloroethene	50.0	51.8		ug/L		104	73 - 134
1,2-Dichloropropane	50.0	44.6		ug/L		89	71 - 126
Ethylbenzene	50.0	52.5		ug/L		105	78 - 125
Methylene Chloride	50.0	57.3		ug/L		115	79 - 124
4-Methyl-2-pentanone (MIBK)	100	107		ug/L		107	51 - 143
p-Isopropyltoluene	50.0	53.1		ug/L		106	69 - 129
Tetrachloroethene	50.0	52.3		ug/L		105	77 - 128
Toluene	50.0	52.9		ug/L		106	77 - 125
1,2,4-Trichlorobenzene	50.0	52.0		ug/L		104	67 - 134
1,2,3-Trichloropropane	50.0	44.9		ug/L		90	74 - 126
Vinyl chloride	50.0	48.4		ug/L		97	58 - 141
Xylenes, Total	150	155		ug/L		103	80 - 124

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*104*		*70 - 130*
4-Bromofluorobenzene	*100*		*70 - 130*
Dibromofluoromethane	*111*		*70 - 130*

Lab Sample ID: LCSD 680-306386/5
Matrix: Water
Analysis Batch: 306386

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	100	138		ug/L		138	39 - 162	17	50
Benzene	50.0	55.3		ug/L		111	74 - 123	9	30
2-Butanone (MEK)	100	118		ug/L		118	55 - 142	7	30
Carbon disulfide	50.0	51.7		ug/L		103	63 - 142	5	30
Carbon tetrachloride	50.0	47.1		ug/L		94	70 - 131	3	30
Chlorobenzene	50.0	56.1		ug/L		112	79 - 120	4	30
Chloroform	50.0	58.3		ug/L		117	76 - 128	6	30
cis-1,2-Dichloroethene	50.0	59.0		ug/L		118	78 - 127	4	30
1,2-Dichlorobenzene	50.0	56.0		ug/L		112	77 - 124	5	30
1,4-Dichlorobenzene	50.0	56.8		ug/L		114	76 - 124	1	30
1,1-Dichloroethane	50.0	58.1		ug/L		116	69 - 132	7	30
1,1-Dichloroethene	50.0	52.5		ug/L		105	73 - 134	1	30
1,2-Dichloropropane	50.0	55.6		ug/L		111	71 - 126	22	30
Ethylbenzene	50.0	54.1		ug/L		108	78 - 125	3	30
Methylene Chloride	50.0	58.6		ug/L		117	79 - 124	2	30
4-Methyl-2-pentanone (MIBK)	100	118		ug/L		118	51 - 143	10	30
p-Isopropyltoluene	50.0	55.7		ug/L		111	69 - 129	5	50
Tetrachloroethene	50.0	54.2		ug/L		108	77 - 128	4	30
Toluene	50.0	56.4		ug/L		113	77 - 125	6	30
1,2,4-Trichlorobenzene	50.0	55.2		ug/L		110	67 - 134	6	30
1,2,3-Trichloropropane	50.0	55.9		ug/L		112	74 - 126	22	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-306386/5
Matrix: Water
Analysis Batch: 306386

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vinyl chloride			50.0	46.1		ug/L		92	58 - 141	5	30
Xylenes, Total			150	164		ug/L		109	80 - 124	6	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*111*		*70 - 130*
4-Bromofluorobenzene	*110*		*70 - 130*
Dibromofluoromethane	*119*		*70 - 130*

Lab Sample ID: MB 680-306390/11
Matrix: Water
Analysis Batch: 306390

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			12/06/13 12:26	1
Benzene	1.0	U	1.0	0.25	ug/L			12/06/13 12:26	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/06/13 12:26	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			12/06/13 12:26	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			12/06/13 12:26	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			12/06/13 12:26	1
Chloroform	1.0	U	1.0	0.14	ug/L			12/06/13 12:26	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			12/06/13 12:26	1
1,2-Dichlorobenzene	1.0	U	1.0	0.21	ug/L			12/06/13 12:26	1
1,4-Dichlorobenzene	1.0	U	1.0	0.28	ug/L			12/06/13 12:26	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/06/13 12:26	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			12/06/13 12:26	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			12/06/13 12:26	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			12/06/13 12:26	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			12/06/13 12:26	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			12/06/13 12:26	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			12/06/13 12:26	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			12/06/13 12:26	1
Toluene	1.0	U	1.0	0.33	ug/L			12/06/13 12:26	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.25	ug/L			12/06/13 12:26	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			12/06/13 12:26	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			12/06/13 12:26	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			12/06/13 12:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*70 - 130*		*12/06/13 12:26*	*1*
4-Bromofluorobenzene	*105*		*70 - 130*		*12/06/13 12:26*	*1*
Dibromofluoromethane	*124*		*70 - 130*		*12/06/13 12:26*	*1*

Lab Sample ID: LCS 680-306390/7
Matrix: Water
Analysis Batch: 306390

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone			100	101		ug/L		101	39 - 162

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-306390/7
Matrix: Water
Analysis Batch: 306390

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	50.3		ug/L		101	74 - 123
2-Butanone (MEK)	100	89.1		ug/L		89	55 - 142
Carbon disulfide	50.0	48.8		ug/L		98	63 - 142
Carbon tetrachloride	50.0	57.7		ug/L		115	70 - 131
Chlorobenzene	50.0	54.2		ug/L		108	79 - 120
Chloroform	50.0	53.5		ug/L		107	76 - 128
cis-1,2-Dichloroethene	50.0	52.3		ug/L		105	78 - 127
1,2-Dichlorobenzene	50.0	55.4		ug/L		111	77 - 124
1,4-Dichlorobenzene	50.0	56.9		ug/L		114	76 - 124
1,1-Dichloroethane	50.0	48.7		ug/L		97	69 - 132
1,1-Dichloroethene	50.0	50.1		ug/L		100	73 - 134
1,2-Dichloropropane	50.0	47.9		ug/L		96	71 - 126
Ethylbenzene	50.0	53.7		ug/L		107	78 - 125
Methylene Chloride	50.0	49.5		ug/L		99	79 - 124
4-Methyl-2-pentanone (MIBK)	100	92.8		ug/L		93	51 - 143
p-Isopropyltoluene	50.0	55.8		ug/L		112	69 - 129
Tetrachloroethene	50.0	57.9		ug/L		116	77 - 128
Toluene	50.0	53.3		ug/L		107	77 - 125
1,2,4-Trichlorobenzene	50.0	64.4		ug/L		129	67 - 134
1,2,3-Trichloropropane	50.0	56.4		ug/L		113	74 - 126
Vinyl chloride	50.0	45.5		ug/L		91	58 - 141
Xylenes, Total	150	166		ug/L		111	80 - 124

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*108*		*70 - 130*
4-Bromofluorobenzene	*109*		*70 - 130*
Dibromofluoromethane	*112*		*70 - 130*

Lab Sample ID: LCSD 680-306390/8
Matrix: Water
Analysis Batch: 306390

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	100	101		ug/L		101	39 - 162	0	50
Benzene	50.0	47.1		ug/L		94	74 - 123	7	30
2-Butanone (MEK)	100	82.6		ug/L		83	55 - 142	8	30
Carbon disulfide	50.0	45.4		ug/L		91	63 - 142	7	30
Carbon tetrachloride	50.0	54.1		ug/L		108	70 - 131	6	30
Chlorobenzene	50.0	51.2		ug/L		102	79 - 120	6	30
Chloroform	50.0	47.9		ug/L		96	76 - 128	11	30
cis-1,2-Dichloroethene	50.0	47.8		ug/L		96	78 - 127	9	30
1,2-Dichlorobenzene	50.0	53.9		ug/L		108	77 - 124	3	30
1,4-Dichlorobenzene	50.0	53.8		ug/L		108	76 - 124	5	30
1,1-Dichloroethane	50.0	45.0		ug/L		90	69 - 132	8	30
1,1-Dichloroethene	50.0	44.9		ug/L		90	73 - 134	11	30
1,2-Dichloropropane	50.0	45.4		ug/L		91	71 - 126	5	30
Ethylbenzene	50.0	50.7		ug/L		101	78 - 125	6	30
Methylene Chloride	50.0	45.8		ug/L		92	79 - 124	8	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-306390/8
Matrix: Water
Analysis Batch: 306390

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4-Methyl-2-pentanone (MIBK)	100	89.5		ug/L		90	51 - 143	4	30
p-Isopropyltoluene	50.0	53.6		ug/L		107	69 - 129	4	50
Tetrachloroethene	50.0	53.3		ug/L		107	77 - 128	8	30
Toluene	50.0	50.2		ug/L		100	77 - 125	6	30
1,2,4-Trichlorobenzene	50.0	68.3	*	ug/L		137	67 - 134	6	30
1,2,3-Trichloropropane	50.0	54.5		ug/L		109	74 - 126	3	30
Vinyl chloride	50.0	40.8		ug/L		82	58 - 141	11	30
Xylenes, Total	150	157		ug/L		105	80 - 124	6	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*70 - 130*
4-Bromofluorobenzene	*102*		*70 - 130*
Dibromofluoromethane	*103*		*70 - 130*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 680-306184/19-A
Matrix: Water
Analysis Batch: 307383

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 306184

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetophenone	1.0	U	1.0	0.10	ug/L		12/05/13 15:11	12/13/13 01:11	1
Benzo[g,h,i]perylene	0.20	U	0.20	0.10	ug/L		12/05/13 15:11	12/13/13 01:11	1
Dibenz(a,h)anthracene	0.20	U	0.20	0.10	ug/L		12/05/13 15:11	12/13/13 01:11	1
Indeno[1,2,3-cd]pyrene	0.20	U	0.20	0.10	ug/L		12/05/13 15:11	12/13/13 01:11	1
3 & 4 Methylphenol	2.0	U	2.0	0.66	ug/L		12/05/13 15:11	12/13/13 01:11	1
Naphthalene	0.20	U	0.20	0.10	ug/L		12/05/13 15:11	12/13/13 01:11	1
Phenol	1.0	U	1.0	0.13	ug/L		12/05/13 15:11	12/13/13 01:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*68*		*32 - 130*	*12/05/13 15:11*	*12/13/13 01:11*	*1*
2-Fluorobiphenyl	*64*		*34 - 130*	*12/05/13 15:11*	*12/13/13 01:11*	*1*
Terphenyl-d14 (Surr)	*88*		*36 - 130*	*12/05/13 15:11*	*12/13/13 01:11*	*1*
Phenol-d5 (Surr)	*67*		*27 - 130*	*12/05/13 15:11*	*12/13/13 01:11*	*1*
2-Fluorophenol (Surr)	*65*		*25 - 130*	*12/05/13 15:11*	*12/13/13 01:11*	*1*
2,4,6-Tribromophenol (Surr)	*59*		*30 - 130*	*12/05/13 15:11*	*12/13/13 01:11*	*1*

Lab Sample ID: LCS 680-306184/20-A
Matrix: Water
Analysis Batch: 307383

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 306184

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetophenone	10.0	7.80		ug/L		78	45 - 130
Benzo[g,h,i]perylene	10.0	7.67		ug/L		77	27 - 134
Dibenz(a,h)anthracene	10.0	7.48		ug/L		75	38 - 130
Indeno[1,2,3-cd]pyrene	10.0	7.01		ug/L		70	12 - 130
3 & 4 Methylphenol	10.0	7.98		ug/L		80	55 - 130

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 680-306184/20-A
Matrix: Water
Analysis Batch: 307383

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 306184

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Naphthalene			10.0	7.41		ug/L		74	35 - 130		
Phenol			10.0	7.80		ug/L		78	44 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*69*		*32 - 130*
2-Fluorobiphenyl	*65*		*34 - 130*
Terphenyl-d14 (Surr)	*72*		*36 - 130*
Phenol-d5 (Surr)	*67*		*27 - 130*
2-Fluorophenol (Surr)	*67*		*25 - 130*
2,4,6-Tribromophenol (Surr)	*75*		*30 - 130*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Lab Sample ID: MB 680-306207/8-A
Matrix: Water
Analysis Batch: 306607

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 306207

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	0.050	U	0.050	0.0057	ug/L		12/05/13 15:11	12/07/13 15:51	1
delta-BHC	0.050	U	0.050	0.0048	ug/L		12/05/13 15:11	12/07/13 15:51	1
gamma-BHC (Lindane)	0.050	U	0.050	0.0059	ug/L		12/05/13 15:11	12/07/13 15:51	1
Heptachlor	0.050	U	0.050	0.0070	ug/L		12/05/13 15:11	12/07/13 15:51	1
Toxaphene, Technical	5.0	U	5.0	0.50	ug/L		12/05/13 15:11	12/07/13 15:51	1
Toxaphene - Total	5.0	U	5.0	0.50	ug/L		12/05/13 15:11	12/07/13 15:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*60*		*22 - 130*	*12/05/13 15:11*	*12/07/13 15:51*	*1*
Tetrachloro-m-xylene	*68*		*53 - 130*	*12/05/13 15:11*	*12/07/13 15:51*	*1*

Lab Sample ID: LCS 680-306207/12-A
Matrix: Water
Analysis Batch: 306607

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 306207

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Toxaphene, Technical			8.00	5.15		ug/L		64	35 - 138		
Toxaphene - Total			8.00	5.65		ug/L		71	35 - 138		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*47*		*22 - 130*
Tetrachloro-m-xylene	*25*	*X*	*53 - 130*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Lab Sample ID: LCS 680-306207/9-A
Matrix: Water
Analysis Batch: 306607

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 306207

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
alpha-BHC	0.100	0.0723		ug/L		72	43 - 138
delta-BHC	0.100	0.0791		ug/L		79	23 - 191
gamma-BHC (Lindane)	0.100	0.0748		ug/L		75	54 - 134
Heptachlor	0.100	0.0718		ug/L		72	10 - 200

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*60*		*22 - 130*
Tetrachloro-m-xylene	*66*		*53 - 130*

Lab Sample ID: 680-96759-1 MS
Matrix: Water
Analysis Batch: 306607

Client Sample ID: MW-55S
Prep Type: Total/NA
Prep Batch: 306207

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Toxaphene, Technical	5.0	U	7.79	5.78		ug/L		74	35 - 138
Toxaphene - Total	5.0	U	7.79	6.98		ug/L		90	35 - 138

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*37*		*22 - 130*
Tetrachloro-m-xylene	*57*		*53 - 130*

Lab Sample ID: 680-96759-1 MSD
Matrix: Water
Analysis Batch: 306607

Client Sample ID: MW-55S
Prep Type: Total/NA
Prep Batch: 306207

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toxaphene, Technical	5.0	U	7.34	5.91		ug/L		81	35 - 138	2	50
Toxaphene - Total	5.0	U	7.34	7.26		ug/L		99	35 - 138	4	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*45*		*22 - 130*
Tetrachloro-m-xylene	*66*		*53 - 130*

Method: 8315A - Carbonyl Compounds (HPLC)

Lab Sample ID: MB 640-106275/1-A
Matrix: Water
Analysis Batch: 106310

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 106275

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Formaldehyde	50	U	50	5.0	ug/L		12/05/13 08:23	12/05/13 10:12	1

Method: 8315A - Carbonyl Compounds (HPLC) (Continued)

Lab Sample ID: LCS 640-106275/2-A
Matrix: Water
Analysis Batch: 106310

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 106275

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Formaldehyde	150	141		ug/L		94	73 - 133

Lab Sample ID: LCSD 640-106275/3-A
Matrix: Water
Analysis Batch: 106310

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 106275

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Formaldehyde	150	148		ug/L		99	73 - 133	5	20

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 680-306329/1-A
Matrix: Water
Analysis Batch: 306733

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 306329

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.5	U	2.5	1.3	ug/L		12/05/13 15:59	12/06/13 16:41	1
Barium	5.0	U	5.0	1.3	ug/L		12/05/13 15:59	12/06/13 16:41	1
Cobalt	0.50	U	0.50	0.15	ug/L		12/05/13 15:59	12/06/13 16:41	1
Chromium	5.0	U	5.0	2.5	ug/L		12/05/13 15:59	12/06/13 16:41	1
Nickel	5.0	U	5.0	2.0	ug/L		12/05/13 15:59	12/06/13 16:41	1
Selenium	2.5	U	2.5	1.0	ug/L		12/05/13 15:59	12/06/13 16:41	1
Vanadium	10	U	10	3.8	ug/L		12/05/13 15:59	12/06/13 16:41	1
Zinc	20	U	20	8.3	ug/L		12/05/13 15:59	12/06/13 16:41	1

Lab Sample ID: LCS 680-306329/2-A
Matrix: Water
Analysis Batch: 306733

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 306329

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	100	109		ug/L		109	75 - 125
Barium	100	108		ug/L		108	75 - 125
Cobalt	50.0	50.5		ug/L		101	75 - 125
Chromium	100	110		ug/L		110	75 - 125
Nickel	100	111		ug/L		111	75 - 125
Selenium	100	104		ug/L		104	75 - 125
Vanadium	100	107		ug/L		107	75 - 125
Zinc	100	107		ug/L		107	75 - 125

GC/MS VOA

Analysis Batch: 306385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96759-3	MW-55D	Total/NA	Water	8260B	
680-96759-5	EB-1	Total/NA	Water	8260B	
680-96759-6	Trip Blank	Total/NA	Water	8260B	
LCS 680-306385/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-306385/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-306385/7	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 306386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96759-4	Dup-1	Total/NA	Water	8260B	
LCS 680-306386/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-306386/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-306386/7	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 306390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96759-1	MW-55S	Total/NA	Water	8260B	
680-96759-2	MW-55I	Total/NA	Water	8260B	
LCS 680-306390/7	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-306390/8	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-306390/11	Method Blank	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 306184

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96759-1	MW-55S	Total/NA	Water	3520C	
680-96759-2	MW-55I	Total/NA	Water	3520C	
680-96759-3	MW-55D	Total/NA	Water	3520C	
680-96759-4	Dup-1	Total/NA	Water	3520C	
680-96759-5	EB-1	Total/NA	Water	3520C	
LCS 680-306184/20-A	Lab Control Sample	Total/NA	Water	3520C	
MB 680-306184/19-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 307383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96759-1	MW-55S	Total/NA	Water	8270D LL	306184
680-96759-2	MW-55I	Total/NA	Water	8270D LL	306184
680-96759-5	EB-1	Total/NA	Water	8270D LL	306184
LCS 680-306184/20-A	Lab Control Sample	Total/NA	Water	8270D LL	306184
MB 680-306184/19-A	Method Blank	Total/NA	Water	8270D LL	306184

Analysis Batch: 307613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96759-3	MW-55D	Total/NA	Water	8270D LL	306184
680-96759-4	Dup-1	Total/NA	Water	8270D LL	306184

GC Semi VOA

Prep Batch: 306207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96759-1	MW-55S	Total/NA	Water	3520C	
680-96759-1 MS	MW-55S	Total/NA	Water	3520C	
680-96759-1 MSD	MW-55S	Total/NA	Water	3520C	
680-96759-2	MW-55I	Total/NA	Water	3520C	
680-96759-3	MW-55D	Total/NA	Water	3520C	
680-96759-4	Dup-1	Total/NA	Water	3520C	
680-96759-5	EB-1	Total/NA	Water	3520C	
LCS 680-306207/12-A	Lab Control Sample	Total/NA	Water	3520C	
LCS 680-306207/9-A	Lab Control Sample	Total/NA	Water	3520C	
MB 680-306207/8-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 306607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96759-1	MW-55S	Total/NA	Water	8081B/8082A	306207
680-96759-1 MS	MW-55S	Total/NA	Water	8081B/8082A	306207
680-96759-1 MSD	MW-55S	Total/NA	Water	8081B/8082A	306207
680-96759-2	MW-55I	Total/NA	Water	8081B/8082A	306207
680-96759-3	MW-55D	Total/NA	Water	8081B/8082A	306207
680-96759-4	Dup-1	Total/NA	Water	8081B/8082A	306207
680-96759-5	EB-1	Total/NA	Water	8081B/8082A	306207
LCS 680-306207/12-A	Lab Control Sample	Total/NA	Water	8081B/8082A	306207
LCS 680-306207/9-A	Lab Control Sample	Total/NA	Water	8081B/8082A	306207
MB 680-306207/8-A	Method Blank	Total/NA	Water	8081B/8082A	306207

HPLC/IC

Prep Batch: 106275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96759-1	MW-55S	Total/NA	Water	8315_W_Prep	
680-96759-2	MW-55I	Total/NA	Water	8315_W_Prep	
680-96759-3	MW-55D	Total/NA	Water	8315_W_Prep	
680-96759-4	Dup-1	Total/NA	Water	8315_W_Prep	
680-96759-5	EB-1	Total/NA	Water	8315_W_Prep	
LCS 640-106275/2-A	Lab Control Sample	Total/NA	Water	8315_W_Prep	
LCSD 640-106275/3-A	Lab Control Sample Dup	Total/NA	Water	8315_W_Prep	
MB 640-106275/1-A	Method Blank	Total/NA	Water	8315_W_Prep	

Analysis Batch: 106310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96759-1	MW-55S	Total/NA	Water	8315A	106275
680-96759-2	MW-55I	Total/NA	Water	8315A	106275
680-96759-3	MW-55D	Total/NA	Water	8315A	106275
680-96759-4	Dup-1	Total/NA	Water	8315A	106275
680-96759-5	EB-1	Total/NA	Water	8315A	106275
LCS 640-106275/2-A	Lab Control Sample	Total/NA	Water	8315A	106275
LCSD 640-106275/3-A	Lab Control Sample Dup	Total/NA	Water	8315A	106275
MB 640-106275/1-A	Method Blank	Total/NA	Water	8315A	106275

QC Association Summary

Client: Ashland Inc.
Project/Site: Ashland Brunswick

TestAmerica Job ID: 680-96759-1

Metals

Prep Batch: 306329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96759-1	MW-55S	Total Recoverable	Water	3005A	
680-96759-2	MW-55I	Total Recoverable	Water	3005A	
680-96759-3	MW-55D	Total Recoverable	Water	3005A	
680-96759-4	Dup-1	Total Recoverable	Water	3005A	
680-96759-5	EB-1	Total Recoverable	Water	3005A	
LCS 680-306329/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 680-306329/1-A	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 306733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96759-1	MW-55S	Total Recoverable	Water	6020	306329
680-96759-2	MW-55I	Total Recoverable	Water	6020	306329
680-96759-3	MW-55D	Total Recoverable	Water	6020	306329
680-96759-4	Dup-1	Total Recoverable	Water	6020	306329
680-96759-5	EB-1	Total Recoverable	Water	6020	306329
LCS 680-306329/2-A	Lab Control Sample	Total Recoverable	Water	6020	306329
MB 680-306329/1-A	Method Blank	Total Recoverable	Water	6020	306329

Client Sample ID: MW-55S

Lab Sample ID: 680-96759-1

Date Collected: 12/04/13 12:46

Matrix: Water

Date Received: 12/04/13 15:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	306390	12/06/13 12:49	JD1	TAL SAV
Total/NA	Prep	3520C			306184	12/05/13 15:11	RNJ	TAL SAV
Total/NA	Analysis	8270D LL		1	307383	12/13/13 07:02	JPM	TAL SAV
Total/NA	Prep	3520C			306207	12/05/13 15:11	RNJ	TAL SAV
Total/NA	Analysis	8081B/8082A		1	306607	12/07/13 18:06	JCK	TAL SAV
Total/NA	Prep	8315_W_Prep			106275	12/05/13 08:23	DNS	TAL TAL
Total/NA	Analysis	8315A		1	106310	12/05/13 12:46	DNS	TAL TAL
Total Recoverable	Prep	3005A			306329	12/05/13 15:59	DAS	TAL SAV
Total Recoverable	Analysis	6020		1	306733	12/06/13 16:56	BWR	TAL SAV

Client Sample ID: MW-55I

Lab Sample ID: 680-96759-2

Date Collected: 12/04/13 11:55

Matrix: Water

Date Received: 12/04/13 15:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	306390	12/06/13 13:11	JD1	TAL SAV
Total/NA	Prep	3520C			306184	12/05/13 15:11	RNJ	TAL SAV
Total/NA	Analysis	8270D LL		1	307383	12/13/13 07:27	JPM	TAL SAV
Total/NA	Prep	3520C			306207	12/05/13 15:11	RNJ	TAL SAV
Total/NA	Analysis	8081B/8082A		1	306607	12/07/13 18:29	JCK	TAL SAV
Total/NA	Prep	8315_W_Prep			106275	12/05/13 08:23	DNS	TAL TAL
Total/NA	Analysis	8315A		1	106310	12/05/13 12:58	DNS	TAL TAL
Total Recoverable	Prep	3005A			306329	12/05/13 15:59	DAS	TAL SAV
Total Recoverable	Analysis	6020		1	306733	12/06/13 17:03	BWR	TAL SAV

Client Sample ID: MW-55D

Lab Sample ID: 680-96759-3

Date Collected: 12/04/13 10:10

Matrix: Water

Date Received: 12/04/13 15:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	306385	12/06/13 15:13	JD1	TAL SAV
Total/NA	Prep	3520C			306184	12/05/13 15:11	RNJ	TAL SAV
Total/NA	Analysis	8270D LL		10	307613	12/14/13 17:40	JPM	TAL SAV
Total/NA	Prep	3520C			306207	12/05/13 15:11	RNJ	TAL SAV
Total/NA	Analysis	8081B/8082A		1	306607	12/07/13 18:52	JCK	TAL SAV
Total/NA	Prep	8315_W_Prep			106275	12/05/13 08:23	DNS	TAL TAL
Total/NA	Analysis	8315A		1	106310	12/05/13 13:10	DNS	TAL TAL
Total Recoverable	Prep	3005A			306329	12/05/13 15:59	DAS	TAL SAV
Total Recoverable	Analysis	6020		1	306733	12/06/13 17:10	BWR	TAL SAV

Lab Chronicle

Client: Ashland Inc.
Project/Site: Ashland Brunswick

TestAmerica Job ID: 680-96759-1

Client Sample ID: Dup-1

Lab Sample ID: 680-96759-4

Date Collected: 12/04/13 00:00
Matrix: Water
Date Received: 12/04/13 15:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	306386	12/06/13 15:31	JD1	TAL SAV
Total/NA	Prep	3520C			306184	12/05/13 15:11	RNJ	TAL SAV
Total/NA	Analysis	8270D LL		10	307613	12/14/13 18:05	JPM	TAL SAV
Total/NA	Prep	3520C			306207	12/05/13 15:11	RNJ	TAL SAV
Total/NA	Analysis	8081B/8082A		1	306607	12/07/13 19:14	JCK	TAL SAV
Total/NA	Prep	8315_W_Prep			106275	12/05/13 08:23	DNS	TAL TAL
Total/NA	Analysis	8315A		1	106310	12/05/13 14:10	DNS	TAL TAL
Total Recoverable	Prep	3005A			306329	12/05/13 15:59	DAS	TAL SAV
Total Recoverable	Analysis	6020		1	306733	12/06/13 17:17	BWR	TAL SAV

Client Sample ID: EB-1

Lab Sample ID: 680-96759-5

Date Collected: 12/04/13 13:15
Matrix: Water
Date Received: 12/04/13 15:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	306385	12/06/13 12:36	JD1	TAL SAV
Total/NA	Prep	3520C			306184	12/05/13 15:11	RNJ	TAL SAV
Total/NA	Analysis	8270D LL		1	307383	12/13/13 08:43	JPM	TAL SAV
Total/NA	Prep	3520C			306207	12/05/13 15:11	RNJ	TAL SAV
Total/NA	Analysis	8081B/8082A		1	306607	12/07/13 19:37	JCK	TAL SAV
Total/NA	Prep	8315_W_Prep			106275	12/05/13 08:23	DNS	TAL TAL
Total/NA	Analysis	8315A		1	106310	12/05/13 13:45	DNS	TAL TAL
Total Recoverable	Prep	3005A			306329	12/05/13 15:59	DAS	TAL SAV
Total Recoverable	Analysis	6020		1	306733	12/06/13 17:25	BWR	TAL SAV

Client Sample ID: Trip Blank

Lab Sample ID: 680-96759-6

Date Collected: 12/04/13 00:00
Matrix: Water
Date Received: 12/04/13 15:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	306385	12/06/13 13:05	JD1	TAL SAV

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

TAL TAL = TestAmerica Tallahassee, 2846 Industrial Plaza Drive, Tallahassee, FL 32301, TEL (850)878-3994

Certification Summary

Client: Ashland Inc.
Project/Site: Ashland Brunswick

TestAmerica Job ID: 680-96759-1

Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
	AFCEE		SAVLAB	
A2LA	DoD ELAP		399.01	02-28-15
A2LA	ISO/IEC 17025		399.01	02-28-15
Alabama	State Program	4	41450	06-30-14
Arkansas DEQ	State Program	6	88-0692	02-01-14
California	NELAP	9	3217CA	07-31-14
Colorado	State Program	8	N/A	12-31-13 *
Connecticut	State Program	1	PH-0161	03-31-15
Florida	NELAP	4	E87052	06-30-14
GA Dept. of Agriculture	State Program	4	N/A	12-31-13 *
Georgia	State Program	4	N/A	06-30-14
Georgia	State Program	4	803	06-30-14
Guam	State Program	9	09-005r	06-17-14
Hawaii	State Program	9	N/A	06-30-14
Illinois	NELAP	5	200022	11-30-13 *
Indiana	State Program	5	N/A	06-30-14
Iowa	State Program	7	353	07-01-15
Kentucky	State Program	4	90084	12-31-13 *
Kentucky (UST)	State Program	4	18	06-30-14
Louisiana	NELAP	6	30690	06-30-14
Maine	State Program	1	GA00006	08-16-14
Maryland	State Program	3	250	12-31-13 *
Massachusetts	State Program	1	M-GA006	06-30-14
Michigan	State Program	5	9925	06-30-14
Mississippi	State Program	4	N/A	06-30-14
Montana	State Program	8	CERT0081	01-01-14
Nebraska	State Program	7	TestAmerica-Savannah	06-30-14
New Jersey	NELAP	2	GA769	06-30-14
New Mexico	State Program	6	N/A	06-30-14
New York	NELAP	2	10842	04-01-14
North Carolina DENR	State Program	4	269	12-31-13 *
North Carolina DHHS	State Program	4	13701	07-31-14
Oklahoma	State Program	6	9984	08-31-14
Pennsylvania	NELAP	3	68-00474	06-30-14
Puerto Rico	State Program	2	GA00006	01-01-14 *
South Carolina	State Program	4	98001	06-30-14
Tennessee	State Program	4	TN02961	06-30-14
Texas	NELAP	6	T104704185-08-TX	11-30-14
USDA	Federal		SAV 3-04	04-07-14
Virginia	NELAP	3	460161	06-14-14
Washington	State Program	10	C1794	06-10-14
West Virginia	State Program	3	9950C	12-31-13 *
West Virginia DEP	State Program	3	94	06-30-14
Wisconsin	State Program	5	999819810	08-31-14
Wyoming	State Program	8	8TMS-L	06-30-14

Laboratory: TestAmerica Tallahassee

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

* Expired certification is currently pending renewal and is considered valid.

Certification Summary

Client: Ashland Inc.
Project/Site: Ashland Brunswick

TestAmerica Job ID: 680-96759-1

Laboratory: TestAmerica Tallahassee (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Florida	NELAP	4	E81005	06-30-14
Georgia	State Program	4		06-30-14
Louisiana	NELAP	6	30663	06-30-14
New Jersey	NELAP	2	FL012	06-30-14
Texas	NELAP	6	T104704459-11-2	03-31-14
USDA	Federal		P330-08-00158	08-05-14

Method Summary

Client: Ashland Inc.
Project/Site: Ashland Brunswick

TestAmerica Job ID: 680-96759-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	TAL SAV
8081B/8082A	Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography	SW846	TAL SAV
8315A	Carbonyl Compounds (HPLC)	SW846	TAL TAL
6020	Metals (ICP/MS)	SW846	TAL SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

TAL TAL = TestAmerica Tallahassee, 2846 Industrial Plaza Drive, Tallahassee, FL 32301, TEL (850)878-3994

Savannah
5102 LaRoche Avenue

Savannah, GA 31404
phone 912.354.7858 fax 912.352.0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Jim Frere	Site Contact: Tim Hassett	Date:	COC No:
Hercules, Inc.	Tel/Fax: 770-825-1261	Lab Contact: Kathy Smith	Carrier:	1 of 1 COCs
	Analysis Turnaround Time			Job No.
	Calendar (C) or Work Days (W)			
	TAT if different from Below ____			SDG No.
Project Name: Phase III RFI	☐ 2 weeks			
Site: Former Hercules, Brunswick, Facility	☐ 1 week			
P O #	☒ 2 days			
	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	VOC's - acetone, benzene, 2-butanone (MEK), …	8081B - Pest …	6010/Metals - arsenic, barium, chromium, cobalt, …	8270 - Select Semivolatiles …	8315A - Formaldehyde	Sample Specific Notes:
MW-55S	12-4-13	1246	G	W	10		X	X	X	X	X	
MW-55I	12-4-13	1155	G	W	10		X	X	X	X	X	
MW-55D	12-4-13	1010	G	W	10		X	X	X	X	X	
Dup-1	12-4-13		G	W	10		X	X	X	X	X	
EB-1 ~~[illegible]~~	12-4-13	1315	G	W	10		X	X	X	X	X	
Trip Blank	12-4-13		G	W	3		X					
				W								
				W								
				W								
				W								
				W								
				W								

680-96759 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ■ *Disposal By Lab* ☐ *Archive For ____ Months*

Special Instructions/QC Requirements & Comments:
Tallahassee Lab: Contact Kathy Smith for the TA Savannah Job number when you receive samples.

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	Arcadis[?]	12/4/13 1400	[signature]	TA	12-4-13
Relinquished by:	Company:	Date/Time:	Received by: [signature]	Company: TA	Date/Time: 12/04/13 15:15
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

Login Sample Receipt Checklist

Client: Ashland Inc.

Job Number: 680-96759-1

Login Number: 96759

List Source: TestAmerica Savannah

List Number: 1

Creator: Banda, Christy S

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Ashland Inc.

Job Number: 680-96759-1

Login Number: 96759
List Number: 1
Creator: Stark, Clayton E

List Source: TestAmerica Tallahassee
List Creation: 12/05/13 10:37 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

TestAmerica

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-99118-1
Client Project/Site: Brunswick - Terry Creek Trailer Park
Revision: 1

For:
Antea USA, Inc.
8008 Corporate Center Dr., Ste. 100
Charlotte, North Carolina 28226

Attn: Jon Alix

Kathryn Smith

Authorized for release by:
4/4/2014 3:11:53 PM

Kathryn Smith, Project Manager II
(912)354-7858
kathy.smith@testamericainc.com

Table of Contents

Job ID: 680-99118-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Antea USA, Inc.

Project: Brunswick - Terry Creek Trailer Park

Report Number: 680-99118-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT

The samples were received on 03/05/2014; the samples arrived in good condition, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.3º C and 2.8º C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples Terry Creek Trailer Park (680-99118-1) and Trip Blank (680-99118-2) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 03/07/2014.

Chloroform was detected in method blank MB 680-318627/9 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

The trip blank for batch 318627 contained chloroform above the method detection limit (MDL). This target analyte concentration was less than the project-specific action limit; therefore,re-analysis of samples was not performed.

SEMIVOLATILE ORGANIC COMPOUNDS (GC/MS) - LOW LEVEL

Sample Terry Creek Trailer Park (680-99118-1) was analyzed for Semivolatile Organic Compounds (GC/MS) - Low level in accordance with EPA SW-846 Method 8270D. The samples were prepared on 03/06/2014 and analyzed on 03/11/2014.

The continuing calibration verification (CCV) analyzed in batch 318613 was outside the method criteria for the following analyte(s): Indeno[1,2,3-cd]pyrene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

PESTICIDES AND PCBS

Sample Terry Creek Trailer Park (680-99118-1) was analyzed for Pesticides and PCBs in accordance with EPA SW-846 Method 8081B_8082A. The samples were prepared on 03/05/2014 and analyzed on 03/07/2014.

This method incorporates 2nd column confirmation. Corrective action is not taken for surrogate/spike compounds unless results from both columns are unacceptable. Results outside criteria are qualified.

Due to the absence of indicator peaks for toxaphene, including weathered toxaphene, Total toxaphene as area under the curve was not quantitated and has been reported as not detected.

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 680-99118-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

FORMALDEHYDE

Sample Terry Creek Trailer Park (680-99118-1) was analyzed for formaldehyde in accordance with EPA SW-846 Method 8315A. The samples were prepared and analyzed on 03/06/2014.

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

METALS (ICPMS)

Sample Terry Creek Trailer Park (680-99118-1) was analyzed for metals (ICPMS) in accordance with EPA SW-846 Method 6020A. The samples were prepared on 03/06/2014 and analyzed on 03/07/2014.

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Method Summary

Client: Antea USA, Inc.
Project/Site: Brunswick - Terry Creek Trailer Park

TestAmerica Job ID: 680-99118-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	TAL SAV
8081B/8082A	Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography	SW846	TAL SAV
8315A	Carbonyl Compounds (HPLC)	SW846	TAL TAL
6020A	Metals (ICP/MS)	SW846	TAL SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

TAL TAL = TestAmerica Tallahassee, 2846 Industrial Plaza Drive, Tallahassee, FL 32301, TEL (850)878-3994

Sample Summary

Client: Antea USA, Inc.
Project/Site: Brunswick - Terry Creek Trailer Park

TestAmerica Job ID: 680-99118-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-99118-1	Terry Creek Trailer Park	Water	03/04/14 15:25	03/05/14 10:15
680-99118-2	Trip Blank	Water	03/04/14 00:00	03/05/14 10:15

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: Antea USA, Inc.
Project/Site: Brunswick - Terry Creek Trailer Park

TestAmerica Job ID: 680-99118-1

Client Sample ID: Terry Creek Trailer Park — Lab Sample ID: 680-99118-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.36	J B	1.0	0.14	ug/L	1		8260B	Total/NA
Barium	43		5.0	1.3	ug/L	1		6020A	Total Recoverable
Zinc	11	J	20	8.3	ug/L	1		6020A	Total Recoverable

Client Sample ID: Trip Blank — Lab Sample ID: 680-99118-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.5	J	25	5.0	ug/L	1		8260B	Total/NA
Chloroform	0.34	J B	1.0	0.14	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Antea USA, Inc.
Project/Site: Brunswick - Terry Creek Trailer Park

TestAmerica Job ID: 680-99118-1

Client Sample ID: Terry Creek Trailer Park
Date Collected: 03/04/14 15:25
Date Received: 03/05/14 10:15

Lab Sample ID: 680-99118-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.0		25	5.0	ug/L			03/07/14 20:18	1
Benzene	<0.25		1.0	0.25	ug/L			03/07/14 20:18	1
2-Butanone (MEK)	<1.0		10	1.0	ug/L			03/07/14 20:18	1
Carbon disulfide	<0.60		2.0	0.60	ug/L			03/07/14 20:18	1
Carbon tetrachloride	<0.50		1.0	0.50	ug/L			03/07/14 20:18	1
Chlorobenzene	<0.25		1.0	0.25	ug/L			03/07/14 20:18	1
Chloroform	**0.36**	**J B**	1.0	0.14	ug/L			03/07/14 20:18	1
cis-1,2-Dichloroethene	<0.15		1.0	0.15	ug/L			03/07/14 20:18	1
1,2-Dichlorobenzene	<0.21		1.0	0.21	ug/L			03/07/14 20:18	1
1,4-Dichlorobenzene	<0.28		1.0	0.28	ug/L			03/07/14 20:18	1
1,1-Dichloroethane	<0.25		1.0	0.25	ug/L			03/07/14 20:18	1
1,1-Dichloroethene	<0.11		1.0	0.11	ug/L			03/07/14 20:18	1
1,2-Dichloropropane	<0.13		1.0	0.13	ug/L			03/07/14 20:18	1
Ethylbenzene	<0.11		1.0	0.11	ug/L			03/07/14 20:18	1
Methylene Chloride	<1.0		5.0	1.0	ug/L			03/07/14 20:18	1
4-Methyl-2-pentanone (MIBK)	<1.0		10	1.0	ug/L			03/07/14 20:18	1
p-Isopropyltoluene	<0.13		1.0	0.13	ug/L			03/07/14 20:18	1
Tetrachloroethene	<0.15		1.0	0.15	ug/L			03/07/14 20:18	1
Toluene	<0.33		1.0	0.33	ug/L			03/07/14 20:18	1
1,2,4-Trichlorobenzene	<0.25		1.0	0.25	ug/L			03/07/14 20:18	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			03/07/14 20:18	1
Vinyl chloride	<0.18		1.0	0.18	ug/L			03/07/14 20:18	1
Xylenes, Total	<0.20		2.0	0.20	ug/L			03/07/14 20:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*70 - 130*		*03/07/14 20:18*	*1*
Dibromofluoromethane	*99*		*70 - 130*		*03/07/14 20:18*	*1*
Toluene-d8 (Surr)	*89*		*70 - 130*		*03/07/14 20:18*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.13		0.97	0.13	ug/L		03/06/14 13:26	03/11/14 04:12	1
Acetophenone	<0.097		0.97	0.097	ug/L		03/06/14 13:26	03/11/14 04:12	1
3 & 4 Methylphenol	<0.64		1.9	0.64	ug/L		03/06/14 13:26	03/11/14 04:12	1
Naphthalene	<0.097		0.19	0.097	ug/L		03/06/14 13:26	03/11/14 04:12	1
Indeno[1,2,3-cd]pyrene	<0.097		0.19	0.097	ug/L		03/06/14 13:26	03/11/14 04:12	1
Dibenz(a,h)anthracene	<0.097		0.19	0.097	ug/L		03/06/14 13:26	03/11/14 04:12	1
Benzo[g,h,i]perylene	<0.097		0.19	0.097	ug/L		03/06/14 13:26	03/11/14 04:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*57*		*32 - 130*	*03/06/14 13:26*	*03/11/14 04:12*	*1*
2-Fluorobiphenyl	*58*		*34 - 130*	*03/06/14 13:26*	*03/11/14 04:12*	*1*
Terphenyl-d14 (Surr)	*61*		*36 - 130*	*03/06/14 13:26*	*03/11/14 04:12*	*1*
Phenol-d5 (Surr)	*69*		*27 - 130*	*03/06/14 13:26*	*03/11/14 04:12*	*1*
2-Fluorophenol (Surr)	*57*		*25 - 130*	*03/06/14 13:26*	*03/11/14 04:12*	*1*
2,4,6-Tribromophenol (Surr)	*57*		*30 - 130*	*03/06/14 13:26*	*03/11/14 04:12*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	<0.023		0.053	0.023	ug/L		03/05/14 14:03	03/07/14 18:47	1

Client: Antea USA, Inc.
Project/Site: Brunswick - Terry Creek Trailer Park

TestAmerica Job ID: 680-99118-1

Client Sample ID: Terry Creek Trailer Park
Date Collected: 03/04/14 15:25
Date Received: 03/05/14 10:15

Lab Sample ID: 680-99118-1
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
delta-BHC	<0.023		0.053	0.023	ug/L		03/05/14 14:03	03/07/14 18:47	1
gamma-BHC (Lindane)	<0.020		0.053	0.020	ug/L		03/05/14 14:03	03/07/14 18:47	1
Heptachlor	<0.024		0.053	0.024	ug/L		03/05/14 14:03	03/07/14 18:47	1
Toxaphene, Technical	<0.54		5.3	0.54	ug/L		03/05/14 14:03	03/07/14 18:47	1
Toxaphene - Total	<0.54		5.3	0.54	ug/L		03/05/14 14:03	03/07/14 18:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*72*		*10 - 130*	*03/05/14 14:03*	*03/07/14 18:47*	*1*
Tetrachloro-m-xylene	*71*		*39 - 130*	*03/05/14 14:03*	*03/07/14 18:47*	*1*

Method: 8315A - Carbonyl Compounds (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Formaldehyde	<5.0		50	5.0	ug/L		03/06/14 10:50	03/06/14 12:59	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<1.3		2.5	1.3	ug/L		03/06/14 07:57	03/07/14 11:05	1
Barium	**43**		5.0	1.3	ug/L		03/06/14 07:57	03/07/14 11:05	1
Cobalt	<0.15		0.50	0.15	ug/L		03/06/14 07:57	03/07/14 11:05	1
Chromium	<2.5		5.0	2.5	ug/L		03/06/14 07:57	03/07/14 11:05	1
Nickel	<2.0		5.0	2.0	ug/L		03/06/14 07:57	03/07/14 11:05	1
Selenium	<1.0		2.5	1.0	ug/L		03/06/14 07:57	03/07/14 11:05	1
Vanadium	<3.8		10	3.8	ug/L		03/06/14 07:57	03/07/14 11:05	1
Zinc	**11**	**J**	20	8.3	ug/L		03/06/14 07:57	03/07/14 11:05	1

Client: Antea USA, Inc.
Project/Site: Brunswick - Terry Creek Trailer Park

TestAmerica Job ID: 680-99118-1

Client Sample ID: Trip Blank
Date Collected: 03/04/14 00:00
Date Received: 03/05/14 10:15

Lab Sample ID: 680-99118-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**5.5**	**J**	25	5.0	ug/L			03/07/14 15:27	1
Benzene	<0.25		1.0	0.25	ug/L			03/07/14 15:27	1
2-Butanone (MEK)	<1.0		10	1.0	ug/L			03/07/14 15:27	1
Carbon disulfide	<0.60		2.0	0.60	ug/L			03/07/14 15:27	1
Carbon tetrachloride	<0.50		1.0	0.50	ug/L			03/07/14 15:27	1
Chlorobenzene	<0.25		1.0	0.25	ug/L			03/07/14 15:27	1
Chloroform	**0.34**	**J B**	1.0	0.14	ug/L			03/07/14 15:27	1
cis-1,2-Dichloroethene	<0.15		1.0	0.15	ug/L			03/07/14 15:27	1
1,2-Dichlorobenzene	<0.21		1.0	0.21	ug/L			03/07/14 15:27	1
1,4-Dichlorobenzene	<0.28		1.0	0.28	ug/L			03/07/14 15:27	1
1,1-Dichloroethane	<0.25		1.0	0.25	ug/L			03/07/14 15:27	1
1,1-Dichloroethene	<0.11		1.0	0.11	ug/L			03/07/14 15:27	1
1,2-Dichloropropane	<0.13		1.0	0.13	ug/L			03/07/14 15:27	1
Ethylbenzene	<0.11		1.0	0.11	ug/L			03/07/14 15:27	1
Methylene Chloride	<1.0		5.0	1.0	ug/L			03/07/14 15:27	1
4-Methyl-2-pentanone (MIBK)	<1.0		10	1.0	ug/L			03/07/14 15:27	1
p-Isopropyltoluene	<0.13		1.0	0.13	ug/L			03/07/14 15:27	1
Tetrachloroethene	<0.15		1.0	0.15	ug/L			03/07/14 15:27	1
Toluene	<0.33		1.0	0.33	ug/L			03/07/14 15:27	1
1,2,4-Trichlorobenzene	<0.25		1.0	0.25	ug/L			03/07/14 15:27	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			03/07/14 15:27	1
Vinyl chloride	<0.18		1.0	0.18	ug/L			03/07/14 15:27	1
Xylenes, Total	<0.20		2.0	0.20	ug/L			03/07/14 15:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*91*		*70 - 130*		*03/07/14 15:27*	*1*
Dibromofluoromethane	*101*		*70 - 130*		*03/07/14 15:27*	*1*
Toluene-d8 (Surr)	*89*		*70 - 130*		*03/07/14 15:27*	*1*

Surrogate Summary

Client: Antea USA, Inc.
Project/Site: Brunswick - Terry Creek Trailer Park

TestAmerica Job ID: 680-99118-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)
680-99118-1	Terry Creek Trailer Park	96	99	89
680-99118-2	Trip Blank	91	101	89
LCS 680-318627/4	Lab Control Sample	87	88	89
LCSD 680-318627/5	Lab Control Sample Dup	83	95	91
MB 680-318627/9	Method Blank	95	100	90

Surrogate Legend

BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		NBZ	FBP	TPH	PHL	2FP	TBP
Lab Sample ID	Client Sample ID	(32-130)	(34-130)	(36-130)	(27-130)	(25-130)	(30-130)
680-99118-1	Terry Creek Trailer Park	57	58	61	69	57	57
LCS 680-318452/11-A	Lab Control Sample	61	62	62	72	61	66
MB 680-318452/10-A	Method Blank	63	63	65	73	60	52

Surrogate Legend

NBZ = Nitrobenzene-d5 (Surr)
FBP = 2-Fluorobiphenyl
TPH = Terphenyl-d14 (Surr)
PHL = Phenol-d5 (Surr)
2FP = 2-Fluorophenol (Surr)
TBP = 2,4,6-Tribromophenol (Surr)

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		DCB1	TCX1
Lab Sample ID	Client Sample ID	(10-130)	(39-130)
680-99118-1	Terry Creek Trailer Park	72	71
LCSD 680-318334/4-A	Lab Control Sample Dup	54	66
LCSD 680-318334/6-A	Lab Control Sample Dup	57	64

Surrogate Legend

DCB = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Surrogate Summary

Client: Antea USA, Inc.
Project/Site: Brunswick - Terry Creek Trailer Park

TestAmerica Job ID: 680-99118-1

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)									
		DCB2	TCX2								
Lab Sample ID	Client Sample ID	(10-130)	(39-130)								
LCS 680-318334/3-A	Lab Control Sample	43	55								
LCS 680-318334/5-A	Lab Control Sample	50	54								
MB 680-318334/2-A	Method Blank	57	71								

Surrogate Legend

DCB = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-318627/9
Matrix: Water
Analysis Batch: 318627

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.0		25	5.0	ug/L			03/07/14 14:42	1
Benzene	<0.25		1.0	0.25	ug/L			03/07/14 14:42	1
2-Butanone (MEK)	<1.0		10	1.0	ug/L			03/07/14 14:42	1
Carbon disulfide	<0.60		2.0	0.60	ug/L			03/07/14 14:42	1
Carbon tetrachloride	<0.50		1.0	0.50	ug/L			03/07/14 14:42	1
Chlorobenzene	<0.25		1.0	0.25	ug/L			03/07/14 14:42	1
Chloroform	0.285	J	1.0	0.14	ug/L			03/07/14 14:42	1
cis-1,2-Dichloroethene	<0.15		1.0	0.15	ug/L			03/07/14 14:42	1
1,2-Dichlorobenzene	<0.21		1.0	0.21	ug/L			03/07/14 14:42	1
1,4-Dichlorobenzene	<0.28		1.0	0.28	ug/L			03/07/14 14:42	1
1,1-Dichloroethane	<0.25		1.0	0.25	ug/L			03/07/14 14:42	1
1,1-Dichloroethene	<0.11		1.0	0.11	ug/L			03/07/14 14:42	1
1,2-Dichloropropane	<0.13		1.0	0.13	ug/L			03/07/14 14:42	1
Ethylbenzene	<0.11		1.0	0.11	ug/L			03/07/14 14:42	1
Methylene Chloride	<1.0		5.0	1.0	ug/L			03/07/14 14:42	1
4-Methyl-2-pentanone (MIBK)	<1.0		10	1.0	ug/L			03/07/14 14:42	1
p-Isopropyltoluene	<0.13		1.0	0.13	ug/L			03/07/14 14:42	1
Tetrachloroethene	<0.15		1.0	0.15	ug/L			03/07/14 14:42	1
Toluene	<0.33		1.0	0.33	ug/L			03/07/14 14:42	1
1,2,4-Trichlorobenzene	<0.25		1.0	0.25	ug/L			03/07/14 14:42	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			03/07/14 14:42	1
Vinyl chloride	<0.18		1.0	0.18	ug/L			03/07/14 14:42	1
Xylenes, Total	<0.20		2.0	0.20	ug/L			03/07/14 14:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*70 - 130*		*03/07/14 14:42*	*1*
Dibromofluoromethane	*100*		*70 - 130*		*03/07/14 14:42*	*1*
Toluene-d8 (Surr)	*90*		*70 - 130*		*03/07/14 14:42*	*1*

Lab Sample ID: LCS 680-318627/4
Matrix: Water
Analysis Batch: 318627

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	100	68.4		ug/L		68	39 - 162
Benzene	50.0	49.9		ug/L		100	74 - 123
2-Butanone (MEK)	100	72.4		ug/L		72	55 - 142
Carbon disulfide	50.0	45.8		ug/L		92	63 - 142
Carbon tetrachloride	50.0	51.8		ug/L		104	70 - 131
Chlorobenzene	50.0	44.1		ug/L		88	79 - 120
Chloroform	50.0	45.8		ug/L		92	76 - 128
cis-1,2-Dichloroethene	50.0	44.9		ug/L		90	78 - 127
1,2-Dichlorobenzene	50.0	44.7		ug/L		89	77 - 124
1,4-Dichlorobenzene	50.0	45.3		ug/L		91	76 - 124
1,1-Dichloroethane	50.0	43.1		ug/L		86	69 - 132
1,1-Dichloroethene	50.0	48.1		ug/L		96	73 - 134
1,2-Dichloropropane	50.0	46.2		ug/L		92	71 - 126
Ethylbenzene	50.0	49.6		ug/L		99	78 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-318627/4
Matrix: Water
Analysis Batch: 318627

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride	50.0	45.0		ug/L		90	79 - 124
4-Methyl-2-pentanone (MIBK)	100	88.6		ug/L		89	51 - 143
p-Isopropyltoluene	50.0	47.8		ug/L		96	69 - 129
Tetrachloroethene	50.0	49.1		ug/L		98	77 - 128
Toluene	50.0	50.5		ug/L		101	77 - 125
1,2,4-Trichlorobenzene	50.0	41.0		ug/L		82	67 - 134
1,2,3-Trichloropropane	50.0	43.1		ug/L		86	74 - 126
Vinyl chloride	50.0	48.7		ug/L		97	58 - 141
Xylenes, Total	150	147		ug/L		98	80 - 124

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*87*		*70 - 130*
Dibromofluoromethane	*88*		*70 - 130*
Toluene-d8 (Surr)	*89*		*70 - 130*

Lab Sample ID: LCSD 680-318627/5
Matrix: Water
Analysis Batch: 318627

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	100	85.4		ug/L		85	39 - 162	22	50
Benzene	50.0	49.7		ug/L		99	74 - 123	0	30
2-Butanone (MEK)	100	76.8		ug/L		77	55 - 142	6	30
Carbon disulfide	50.0	55.9		ug/L		112	63 - 142	20	30
Carbon tetrachloride	50.0	52.9		ug/L		106	70 - 131	2	30
Chlorobenzene	50.0	45.0		ug/L		90	79 - 120	2	30
Chloroform	50.0	49.5		ug/L		99	76 - 128	8	30
cis-1,2-Dichloroethene	50.0	49.5		ug/L		99	78 - 127	10	30
1,2-Dichlorobenzene	50.0	43.8		ug/L		88	77 - 124	2	30
1,4-Dichlorobenzene	50.0	43.9		ug/L		88	76 - 124	3	30
1,1-Dichloroethane	50.0	49.8		ug/L		100	69 - 132	14	30
1,1-Dichloroethene	50.0	59.6		ug/L		119	73 - 134	21	30
1,2-Dichloropropane	50.0	46.3		ug/L		93	71 - 126	0	30
Ethylbenzene	50.0	50.7		ug/L		101	78 - 125	2	30
Methylene Chloride	50.0	51.4		ug/L		103	79 - 124	13	30
4-Methyl-2-pentanone (MIBK)	100	88.7		ug/L		89	51 - 143	0	30
p-Isopropyltoluene	50.0	47.6		ug/L		95	69 - 129	0	50
Tetrachloroethene	50.0	48.8		ug/L		98	77 - 128	1	30
Toluene	50.0	50.8		ug/L		102	77 - 125	1	30
1,2,4-Trichlorobenzene	50.0	41.2		ug/L		82	67 - 134	1	30
1,2,3-Trichloropropane	50.0	41.3		ug/L		83	74 - 126	4	30
Vinyl chloride	50.0	51.0		ug/L		102	58 - 141	5	30
Xylenes, Total	150	145		ug/L		97	80 - 124	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*83*		*70 - 130*
Dibromofluoromethane	*95*		*70 - 130*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-318627/5
Matrix: Water
Analysis Batch: 318627

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Toluene-d8 (Surr)	91		70 - 130

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 680-318452/10-A
Matrix: Water
Analysis Batch: 319016

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 318452

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.13		1.0	0.13	ug/L		03/06/14 13:26	03/10/14 22:53	1
Acetophenone	<0.10		1.0	0.10	ug/L		03/06/14 13:26	03/10/14 22:53	1
3 & 4 Methylphenol	<0.66		2.0	0.66	ug/L		03/06/14 13:26	03/10/14 22:53	1
Naphthalene	<0.10		0.20	0.10	ug/L		03/06/14 13:26	03/10/14 22:53	1
Indeno[1,2,3-cd]pyrene	<0.10		0.20	0.10	ug/L		03/06/14 13:26	03/10/14 22:53	1
Dibenz(a,h)anthracene	<0.10		0.20	0.10	ug/L		03/06/14 13:26	03/10/14 22:53	1
Benzo[g,h,i]perylene	<0.10		0.20	0.10	ug/L		03/06/14 13:26	03/10/14 22:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	63		32 - 130	03/06/14 13:26	03/10/14 22:53	1
2-Fluorobiphenyl	63		34 - 130	03/06/14 13:26	03/10/14 22:53	1
Terphenyl-d14 (Surr)	65		36 - 130	03/06/14 13:26	03/10/14 22:53	1
Phenol-d5 (Surr)	73		27 - 130	03/06/14 13:26	03/10/14 22:53	1
2-Fluorophenol (Surr)	60		25 - 130	03/06/14 13:26	03/10/14 22:53	1
2,4,6-Tribromophenol (Surr)	52		30 - 130	03/06/14 13:26	03/10/14 22:53	1

Lab Sample ID: LCS 680-318452/11-A
Matrix: Water
Analysis Batch: 319016

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 318452

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenol	10.0	8.37		ug/L		84	44 - 130
Acetophenone	10.0	7.29		ug/L		73	45 - 130
3 & 4 Methylphenol	10.0	7.57		ug/L		76	55 - 130
Naphthalene	10.0	6.37		ug/L		64	35 - 130
Indeno[1,2,3-cd]pyrene	10.0	7.04		ug/L		70	12 - 130
Dibenz(a,h)anthracene	10.0	7.07		ug/L		71	38 - 130
Benzo[g,h,i]perylene	10.0	6.87		ug/L		69	27 - 134

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5 (Surr)	61		32 - 130
2-Fluorobiphenyl	62		34 - 130
Terphenyl-d14 (Surr)	62		36 - 130
Phenol-d5 (Surr)	72		27 - 130
2-Fluorophenol (Surr)	61		25 - 130
2,4,6-Tribromophenol (Surr)	66		30 - 130

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Lab Sample ID: MB 680-318334/2-A
Matrix: Water
Analysis Batch: 318727

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 318334

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	<0.022		0.050	0.022	ug/L		03/05/14 14:03	03/07/14 16:49	1
delta-BHC	<0.022		0.050	0.022	ug/L		03/05/14 14:03	03/07/14 16:49	1
gamma-BHC (Lindane)	<0.019		0.050	0.019	ug/L		03/05/14 14:03	03/07/14 16:49	1
Heptachlor	<0.023		0.050	0.023	ug/L		03/05/14 14:03	03/07/14 16:49	1
Toxaphene, Technical	<0.51		5.0	0.51	ug/L		03/05/14 14:03	03/07/14 16:49	1
Toxaphene - Total	<0.51		5.0	0.51	ug/L		03/05/14 14:03	03/07/14 16:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*57*		*10 - 130*	*03/05/14 14:03*	*03/07/14 16:49*	*1*
Tetrachloro-m-xylene	*71*		*39 - 130*	*03/05/14 14:03*	*03/07/14 16:49*	*1*

Lab Sample ID: LCS 680-318334/3-A
Matrix: Water
Analysis Batch: 318727

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 318334

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
alpha-BHC	0.200	0.134		ug/L		67	45 - 130
delta-BHC	0.200	0.151		ug/L		76	47 - 140
gamma-BHC (Lindane)	0.200	0.138		ug/L		69	47 - 130
Heptachlor	0.200	0.135		ug/L		68	49 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*43*		*10 - 130*
Tetrachloro-m-xylene	*55*		*39 - 130*

Lab Sample ID: LCS 680-318334/5-A
Matrix: Water
Analysis Batch: 318727

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 318334

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toxaphene, Technical	16.0	13.5		ug/L		84	22 - 145
Toxaphene - Total	16.0	11.7		ug/L		73	35 - 138

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*50*		*10 - 130*
Tetrachloro-m-xylene	*54*		*39 - 130*

Lab Sample ID: LCSD 680-318334/4-A
Matrix: Water
Analysis Batch: 318727

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 318334

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
alpha-BHC	0.200	0.151		ug/L		75	45 - 130	12	30
delta-BHC	0.200	0.168		ug/L		84	47 - 140	10	30
gamma-BHC (Lindane)	0.200	0.155		ug/L		77	47 - 130	11	30
Heptachlor	0.200	0.150		ug/L		75	49 - 130	11	30

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Lab Sample ID: LCSD 680-318334/4-A
Matrix: Water
Analysis Batch: 318727

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 318334

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*54*		*10 - 130*
Tetrachloro-m-xylene	*66*		*39 - 130*

Lab Sample ID: LCSD 680-318334/6-A
Matrix: Water
Analysis Batch: 318727

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 318334

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toxaphene, Technical			16.0	15.1		ug/L		94	22 - 145	11	50
Toxaphene - Total			16.0	12.8		ug/L		80	35 - 138	9	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*57*		*10 - 130*
Tetrachloro-m-xylene	*64*		*39 - 130*

Method: 8315A - Carbonyl Compounds (HPLC)

Lab Sample ID: MB 640-107985/1-A
Matrix: Water
Analysis Batch: 108032

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 107985

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Formaldehyde	<5.0		50	5.0	ug/L		03/06/14 10:50	03/06/14 11:49	1

Lab Sample ID: LCS 640-107985/2-A
Matrix: Water
Analysis Batch: 108032

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 107985

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Formaldehyde			150	146		ug/L		97	73 - 133		

Lab Sample ID: LCSD 640-107985/3-A
Matrix: Water
Analysis Batch: 108032

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 107985

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Formaldehyde			150	154		ug/L		103	73 - 133	5	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 680-318434/1-A
Matrix: Water
Analysis Batch: 318737

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 318434

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<1.3		2.5	1.3	ug/L		03/06/14 07:57	03/07/14 09:00	1
Barium	<1.3		5.0	1.3	ug/L		03/06/14 07:57	03/07/14 09:00	1

Client: Antea USA, Inc.
Project/Site: Brunswick - Terry Creek Trailer Park

TestAmerica Job ID: 680-99118-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 680-318434/1-A
Matrix: Water
Analysis Batch: 318737

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 318434

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.15		0.50	0.15	ug/L		03/06/14 07:57	03/07/14 09:00	1
Chromium	<2.5		5.0	2.5	ug/L		03/06/14 07:57	03/07/14 09:00	1
Nickel	<2.0		5.0	2.0	ug/L		03/06/14 07:57	03/07/14 09:00	1
Selenium	<1.0		2.5	1.0	ug/L		03/06/14 07:57	03/07/14 09:00	1
Vanadium	<3.8		10	3.8	ug/L		03/06/14 07:57	03/07/14 09:00	1
Zinc	<8.3		20	8.3	ug/L		03/06/14 07:57	03/07/14 09:00	1

Lab Sample ID: LCS 680-318434/2-A
Matrix: Water
Analysis Batch: 318737

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 318434

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	100	107		ug/L		107	75 - 125
Barium	100	104		ug/L		104	75 - 125
Cobalt	50.0	51.2		ug/L		102	75 - 125
Chromium	100	107		ug/L		107	75 - 125
Nickel	100	109		ug/L		109	75 - 125
Selenium	100	108		ug/L		108	75 - 125
Vanadium	100	106		ug/L		106	75 - 125
Zinc	100	106		ug/L		106	75 - 125

QC Association Summary

Client: Antea USA, Inc.
Project/Site: Brunswick - Terry Creek Trailer Park

TestAmerica Job ID: 680-99118-1

GC/MS VOA

Analysis Batch: 318627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-99118-1	Terry Creek Trailer Park	Total/NA	Water	8260B	
680-99118-2	Trip Blank	Total/NA	Water	8260B	
LCS 680-318627/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-318627/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-318627/9	Method Blank	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 318452

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-99118-1	Terry Creek Trailer Park	Total/NA	Water	3520C	
LCS 680-318452/11-A	Lab Control Sample	Total/NA	Water	3520C	
MB 680-318452/10-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 319016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-99118-1	Terry Creek Trailer Park	Total/NA	Water	8270D LL	318452
LCS 680-318452/11-A	Lab Control Sample	Total/NA	Water	8270D LL	318452
MB 680-318452/10-A	Method Blank	Total/NA	Water	8270D LL	318452

GC Semi VOA

Prep Batch: 318334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-99118-1	Terry Creek Trailer Park	Total/NA	Water	3520C	
LCS 680-318334/3-A	Lab Control Sample	Total/NA	Water	3520C	
LCS 680-318334/5-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 680-318334/4-A	Lab Control Sample Dup	Total/NA	Water	3520C	
LCSD 680-318334/6-A	Lab Control Sample Dup	Total/NA	Water	3520C	
MB 680-318334/2-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 318727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-99118-1	Terry Creek Trailer Park	Total/NA	Water	8081B/8082A	318334
LCS 680-318334/3-A	Lab Control Sample	Total/NA	Water	8081B/8082A	318334
LCS 680-318334/5-A	Lab Control Sample	Total/NA	Water	8081B/8082A	318334
LCSD 680-318334/4-A	Lab Control Sample Dup	Total/NA	Water	8081B/8082A	318334
LCSD 680-318334/6-A	Lab Control Sample Dup	Total/NA	Water	8081B/8082A	318334
MB 680-318334/2-A	Method Blank	Total/NA	Water	8081B/8082A	318334

HPLC/IC

Prep Batch: 107985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-99118-1	Terry Creek Trailer Park	Total/NA	Water	8315_W_Prep	
LCS 640-107985/2-A	Lab Control Sample	Total/NA	Water	8315_W_Prep	
LCSD 640-107985/3-A	Lab Control Sample Dup	Total/NA	Water	8315_W_Prep	
MB 640-107985/1-A	Method Blank	Total/NA	Water	8315_W_Prep	

HPLC/IC (Continued)

Analysis Batch: 108032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-99118-1	Terry Creek Trailer Park	Total/NA	Water	8315A	107985
LCS 640-107985/2-A	Lab Control Sample	Total/NA	Water	8315A	107985
LCSD 640-107985/3-A	Lab Control Sample Dup	Total/NA	Water	8315A	107985
MB 640-107985/1-A	Method Blank	Total/NA	Water	8315A	107985

Metals

Prep Batch: 318434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-99118-1	Terry Creek Trailer Park	Total Recoverable	Water	3005A	
LCS 680-318434/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 680-318434/1-A	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 318737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-99118-1	Terry Creek Trailer Park	Total Recoverable	Water	6020A	318434
LCS 680-318434/2-A	Lab Control Sample	Total Recoverable	Water	6020A	318434
MB 680-318434/1-A	Method Blank	Total Recoverable	Water	6020A	318434

Lab Chronicle

Client: Antea USA, Inc.
Project/Site: Brunswick - Terry Creek Trailer Park

TestAmerica Job ID: 680-99118-1

Client Sample ID: Terry Creek Trailer Park

Lab Sample ID: 680-99118-1

Date Collected: 03/04/14 15:25

Matrix: Water

Date Received: 03/05/14 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	318627	03/07/14 20:18	MMT	TAL SAV
Total/NA	Prep	3520C			1035.5 mL	1 mL	318452	03/06/14 13:26	RBS	TAL SAV
Total/NA	Analysis	8270D LL		1	1035.5 mL	1 mL	319016	03/11/14 04:12	JLW	TAL SAV
Total/NA	Prep	3520C			118.2 mL	2.5 mL	318334	03/05/14 14:03	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	118.2 mL	2.5 mL	318727	03/07/14 18:47	JCK	TAL SAV
Total/NA	Prep	8315_W_Prep			100 mL	4.0 mL	107985	03/06/14 10:50	DNS	TAL TAL
Total/NA	Analysis	8315A		1	100 mL	4.0 mL	108032	03/06/14 12:59	DNS	TAL TAL
Total Recoverable	Prep	3005A			50 mL	250 mL	318434	03/06/14 07:57	CRW	TAL SAV
Total Recoverable	Analysis	6020A		1	50 mL	250 mL	318737	03/07/14 11:05	BWR	TAL SAV

Client Sample ID: Trip Blank

Lab Sample ID: 680-99118-2

Date Collected: 03/04/14 00:00

Matrix: Water

Date Received: 03/05/14 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	318627	03/07/14 15:27	MMT	TAL SAV

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

TAL TAL = TestAmerica Tallahassee, 2846 Industrial Plaza Drive, Tallahassee, FL 32301, TEL (850)878-3994

Savannah
5102 LaRoche Avenue

Savannah, GA 31404
phone 912.354.7858 fax 912.352.0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	**Project Manager: Jon Alix, Antea Group**	**Site Contact: Tim Hassett**
Hercules, Inc.	**Tel/Fax: 704-543-3925**	**Lab Contact: Kathy Smith**
	Analysis Turnaround Time	**Date:**
	Calendar (C) or Work Days (W) W	**Carrier:**
	TAT if different from Below __3 Work Days_____	
	☐ 2 weeks	
Project Name: Off-site IM Plan	☐ 1 week	
Site: Former Hercules, Brunswick, Facility	☐ 2 days	
AnteaGroup Proj. # WBS2014B3.0020	☐ 1 day	

COC No: ___1___ of ___1___ COCs
Job No.
SDG No.

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	VOC's - acetone, benzene, 2 butanone (MEK), chlorobenzene, chloroform, carbon disulfide, carbon tetrachloride, 1,2 dichlorobenzene, 1,4-dichlorobenzene, 1,1-dichloroethane, 1,1-dichloroethene, cis 1,2-dichloroethene, 1,2-dichloropropane, ethylbenzene, methyl isobutyl ketone (MIBK), methylene chloride, tetrachloroethene, toluene, 1,2,4-trichlorobenzene, 1,2,3-trichloropropane, vinyl chloride, xylenes, p-cymene	8081B-Pest - Technical toxaphene, total area toxaphene (chlorinated camphenes), alpha BHC, delta BHC, gamma BHC (lindane), heptachlor	6020A-Metals - arsenic, barium, chromium, cobalt, nickel, selenium, vanadium, zinc	8270 - Select Semivolatiles - Acenaphthene, phenol, 3&4 methylphenol, naphthalene, benzo(ghi)perylene, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene	8315A - Formaldehyde	Sample Specific Notes:
Terry Creek Trailer Park	3/4/2014		G	W	10		x	x	x	x	x	

680-99118 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ___________

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown*

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* ________ *Months*

Special Instructions/QC Requirements & Comments:
Tallahassee Lab: Contact Kathy Smith for the TA Savannah Job number when you receive samples.

680-99118
2.8°C

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	Antea	3-4-14 1600			
			[signature]	TA SAV	03/05/14 1015

Savannah
5102 LaRoche Avenue

Savannah, GA 31404
phone 912.354.7858 fax 912.352.0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Jon Alix, Antea Group	Site Contact: Tim Hassett	Date:	COC No:
Hercules, Inc.	Tel/Fax: 704-543-3925	Lab Contact: Kathy Smith	Carrier:	__1__ of __1__ COCs
	Analysis Turnaround Time			Job No.
	Calendar (C) or Work Days (W) __W__			
	TAT if different from Below __3 Work Days___			SDG No.
	☐ 2 weeks			
Project Name: Off-site IM Plan	☐ 1 week			
Site: Former Hercules, Brunswick, Facility	☐ 2 days			
AnteaGroup Proj. # WBS2014B3.0020	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	VOC's - acetone, benzene, 2 butanone (MEK), chlorobenzene, chloroform, carbon disulfide, carbon tetrachloride, [illegible]	8081B - Pest - Technical toxaphene, [illegible] BHC, gamma BHC (lindane), heptachlor	6020A - Metals - arsenic, barium, chromium, cobalt, [illegible], selenium, vanadium, zinc	8270 - Select Semivolatiles - Acenaphthene, [illegible]	8315A - Formaldehyde	Sample Specific Notes:
Terry Creek Trailer Park	3/4/2014	1525	G	W	10		x	x	x	x	x	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other __________

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For ________ Months*

Special Instructions/QC Requirements & Comments:
Tallahassee Lab: Contact Kathy Smith for the TA Savannah Job number when you receive samples.

1.3°C

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	Antea	3-4-14/1600	[signature]	TAL	3/5/14 0905
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

Login Sample Receipt Checklist

Client: Antea USA, Inc.

Job Number: 680-99118-1

Login Number: 99118

List Source: TestAmerica Savannah

List Number: 1

Creator: Conner, Keaton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	SAMPLE TIME TAKEN FROM LABELS
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Antea USA, Inc.

Job Number: 680-99118-1

Login Number: 99118
List Number: 1
Creator: Carpenter, Jonnie T

List Source: TestAmerica Tallahassee
List Creation: 03/05/14 12:08 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Antea USA, Inc.
Project/Site: Brunswick - Terry Creek Trailer Park

TestAmerica Job ID: 680-99118-1

Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
	AFCEE		SAVLAB	
A2LA	DoD ELAP		399.01	02-28-15
A2LA	ISO/IEC 17025		399.01	02-28-15
Alabama	State Program	4	41450	06-30-14
Arkansas DEQ	State Program	6	88-0692	01-31-15
California	NELAP	9	3217CA	07-31-14
Colorado	State Program	8	N/A	12-31-14
Connecticut	State Program	1	PH-0161	03-31-15
Florida	NELAP	4	E87052	06-30-14
GA Dept. of Agriculture	State Program	4	N/A	06-30-14
Georgia	State Program	4	N/A	06-30-14
Georgia	State Program	4	803	06-30-14
Guam	State Program	9	09-005r	04-17-14 *
Hawaii	State Program	9	N/A	06-30-14
Illinois	NELAP	5	200022	11-30-14
Indiana	State Program	5	N/A	06-30-14
Iowa	State Program	7	353	07-01-15
Kentucky (DW)	State Program	4	90084	12-31-14
Kentucky (UST)	State Program	4	18	06-30-14
Louisiana	NELAP	6	LA100015	12-31-14
Maine	State Program	1	GA00006	08-16-14
Maryland	State Program	3	250	12-31-14
Massachusetts	State Program	1	M-GA006	06-30-14
Michigan	State Program	5	9925	06-30-14
Mississippi	State Program	4	N/A	06-30-14
Montana	State Program	8	CERT0081	01-01-15
Nebraska	State Program	7	TestAmerica-Savannah	06-30-14
New Jersey	NELAP	2	GA769	06-30-14
New Mexico	State Program	6	N/A	06-30-14
New York	NELAP	2	10842	03-31-14 *
North Carolina DENR	State Program	4	269	12-31-14
North Carolina DHHS	State Program	4	13701	07-31-14
Oklahoma	State Program	6	9984	08-31-14
Pennsylvania	NELAP	3	68-00474	06-30-14
Puerto Rico	State Program	2	GA00006	12-31-14
South Carolina	State Program	4	98001	06-30-14
Tennessee	State Program	4	TN02961	06-30-14
Texas	NELAP	6	T104704185-08-TX	11-30-14
USDA	Federal		SAV 3-04	04-07-14 *
Virginia	NELAP	3	460161	06-14-14
Washington	State Program	10	C1794	06-10-14
West Virginia DEP	State Program	3	94	06-30-14
West Virginia DHHR	State Program	3	9950C	12-31-14
Wisconsin	State Program	5	999819810	08-31-14
Wyoming	State Program	8	8TMS-L	06-30-14

Laboratory: TestAmerica Tallahassee

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

* Expired certification is currently pending renewal and is considered valid.

Certification Summary

Client: Antea USA, Inc.
Project/Site: Brunswick - Terry Creek Trailer Park

TestAmerica Job ID: 680-99118-1

Laboratory: TestAmerica Tallahassee (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Florida	NELAP	4	E81005	06-30-14
Georgia	State Program	4		06-30-14
Louisiana	NELAP	6	30663	06-30-14
New Jersey	NELAP	2	FL012	06-30-14
Texas	NELAP	6	T104704459-11-2	03-31-15
USDA	Federal		P330-08-00158	08-05-14

Client: Antea USA, Inc.
Project/Site: Brunswick - Terry Creek Trailer Park

TestAmerica Job ID: 680-99118-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-102491-1
Client Project/Site: Former Hercules Brunswick Facility

For:
Ashland Inc.
Ashland Hercules Research Center
500 Hercules Rd Bldg 8139
Wilmington, Delaware 19808

Attn: Timothy Hassett

Authorized for release by:
7/3/2014 10:19:44 AM
Linda Wolfe, Project Manager II
(912)354-7858 e.3005
linda.wolfe@testamericainc.com

Designee for

Kathryn Smith, Project Manager II
(912)354-7858
kathy.smith@testamericainc.com

Table of Contents

Job ID: 680-102491-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Ashland Inc.

Project: Former Hercules Brunswick Facility

Report Number: 680-102491-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT

The samples were received on 06/19/2014; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.0 C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples Blount 8 (680-102491-1), Blount 10 (680-102491-2) and TB-2 (680-102491-3) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 06/29/2014.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 336820.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SEMIVOLATILE ORGANIC COMPOUNDS (AQUEOUS)

Samples Blount 8 (680-102491-1) and Blount 10 (680-102491-2) were analyzed for Semivolatile Organic Compounds (Aqueous) in accordance with EPA SW-846 Method 8270D. The samples were prepared on 06/23/2014 and 06/30/2014 and analyzed on 07/01/2014.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with batch 335718.

Naphthalene failed the recovery criteria low for LCS 680-335718/10-A. Dibenz(a,h)anthracene and Indeno[1,2,3-cd]pyrene exceeded the RPD limit for the LCS and LCSD in batch 680-335718/11-A. The associated samples were re-prepared and re-analyzed outside holding time. Both sets of data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PESTICIDES AND PCBS

Samples Blount 8 (680-102491-1) and Blount 10 (680-102491-2) were analyzed for Pesticides and PCBs in accordance with EPA SW-846 Method 8081B_8082A. The samples were prepared on 06/23/2014 and analyzed on 06/26/2014.

This method incorporates 2nd column confirmation. Corrective action is not taken for surrogate/spike compounds unless results from both columns are unacceptable. Results outside criteria are qualified.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

FORMALDEHYDE

Samples Blount 8 (680-102491-1) and Blount 10 (680-102491-2) were analyzed for formaldehyde in accordance with EPA SW-846 Method 8315A. The samples were prepared and analyzed on 06/20/2014.

Job ID: 680-102491-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 640-109838.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

METALS (ICPMS)

Samples Blount 8 (680-102491-1) and Blount 10 (680-102491-2) were analyzed for Metals (ICPMS) in accordance with EPA SW-846 Method 6020A. The samples were prepared on 06/24/2014 and analyzed on 06/28/2014.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Method Summary

Client: Ashland Inc.
Project/Site: Former Hercules Brunswick Facility

TestAmerica Job ID: 680-102491-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL SAV
8081B/8082A	Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography	SW846	TAL SAV
8315A	Carbonyl Compounds (HPLC)	SW846	TAL TAL
6020A	Metals (ICP/MS)	SW846	TAL SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

TAL TAL = TestAmerica Tallahassee, 2846 Industrial Plaza Drive, Tallahassee, FL 32301, TEL (850)878-3994

Sample Summary

Client: Ashland Inc.
Project/Site: Former Hercules Brunswick Facility

TestAmerica Job ID: 680-102491-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-102491-1	Blount 8	Water	06/18/14 14:52	06/19/14 08:51
680-102491-2	Blount 10	Water	06/18/14 15:56	06/19/14 08:51
680-102491-3	TB-2	Water	06/18/14 00:00	06/19/14 08:51

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
*	RPD of the LCS and LCSD exceeds the control limits
*	LCS or LCSD exceeds the control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: Ashland Inc.
Project/Site: Former Hercules Brunswick Facility

TestAmerica Job ID: 680-102491-1

Client Sample ID: Blount 8 — Lab Sample ID: 680-102491-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	49		5.0	1.4	ug/L	1		6020A	Total/NA

Client Sample ID: Blount 10 — Lab Sample ID: 680-102491-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	20		5.0	1.4	ug/L	1		6020A	Total/NA
Zinc	14	J	20	8.4	ug/L	1		6020A	Total/NA

Client Sample ID: TB-2 — Lab Sample ID: 680-102491-3

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: Blount 8

Date Collected: 06/18/14 14:52
Date Received: 06/19/14 08:51

Lab Sample ID: 680-102491-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.0		25	5.0	ug/L			06/29/14 18:07	1
Benzene	<0.25		1.0	0.25	ug/L			06/29/14 18:07	1
2-Butanone	<1.0		10	1.0	ug/L			06/29/14 18:07	1
Carbon disulfide	<0.60		2.0	0.60	ug/L			06/29/14 18:07	1
Carbon tetrachloride	<0.50		1.0	0.50	ug/L			06/29/14 18:07	1
Chlorobenzene	<0.25		1.0	0.25	ug/L			06/29/14 18:07	1
Chloroform	<0.14		1.0	0.14	ug/L			06/29/14 18:07	1
cis-1,2-Dichloroethene	<0.15		1.0	0.15	ug/L			06/29/14 18:07	1
1,2-Dichlorobenzene	<0.21		1.0	0.21	ug/L			06/29/14 18:07	1
1,4-Dichlorobenzene	<0.28		1.0	0.28	ug/L			06/29/14 18:07	1
1,1-Dichloroethane	<0.25		1.0	0.25	ug/L			06/29/14 18:07	1
1,1-Dichloroethene	<0.11		1.0	0.11	ug/L			06/29/14 18:07	1
1,2-Dichloropropane	<0.13		1.0	0.13	ug/L			06/29/14 18:07	1
Ethylbenzene	<0.11		1.0	0.11	ug/L			06/29/14 18:07	1
Methylene Chloride	<1.0		5.0	1.0	ug/L			06/29/14 18:07	1
Methyl isobutyl ketone (MIBK)	<1.0		10	1.0	ug/L			06/29/14 18:07	1
p-Cymene	<0.13		1.0	0.13	ug/L			06/29/14 18:07	1
Tetrachloroethene	<0.15		1.0	0.15	ug/L			06/29/14 18:07	1
Toluene	<0.33		1.0	0.33	ug/L			06/29/14 18:07	1
1,2,4-Trichlorobenzene	<0.25		1.0	0.25	ug/L			06/29/14 18:07	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			06/29/14 18:07	1
Vinyl chloride	<0.18		1.0	0.18	ug/L			06/29/14 18:07	1
Xylenes, Total	<0.20		2.0	0.20	ug/L			06/29/14 18:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*102*		*70 - 130*		*06/29/14 18:07*	*1*
Dibromofluoromethane	*105*		*70 - 130*		*06/29/14 18:07*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*06/29/14 18:07*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetophenone	<1.8		9.8	1.8	ug/L		06/23/14 16:39	07/01/14 14:34	1
Benzo[g,h,i]perylene	<2.0		9.8	2.0	ug/L		06/23/14 16:39	07/01/14 14:34	1
Dibenz(a,h)anthracene	<1.7	*	9.8	1.7	ug/L		06/23/14 16:39	07/01/14 14:34	1
Indeno[1,2,3-cd]pyrene	<1.8	*	9.8	1.8	ug/L		06/23/14 16:39	07/01/14 14:34	1
3 & 4 Methylphenol	<1.3		9.8	1.3	ug/L		06/23/14 16:39	07/01/14 14:34	1
Naphthalene	<1.2	*	9.8	1.2	ug/L		06/23/14 16:39	07/01/14 14:34	1
Phenol	<1.5		9.8	1.5	ug/L		06/23/14 16:39	07/01/14 14:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*77*		*38 - 130*	*06/23/14 16:39*	*07/01/14 14:34*	*1*
2-Fluorophenol	*63*		*25 - 130*	*06/23/14 16:39*	*07/01/14 14:34*	*1*
Nitrobenzene-d5	*69*		*39 - 130*	*06/23/14 16:39*	*07/01/14 14:34*	*1*
Phenol-d5	*72*		*25 - 130*	*06/23/14 16:39*	*07/01/14 14:34*	*1*
Terphenyl-d14	*83*		*10 - 143*	*06/23/14 16:39*	*07/01/14 14:34*	*1*
2,4,6-Tribromophenol	*87*		*31 - 141*	*06/23/14 16:39*	*07/01/14 14:34*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetophenone	<1.7	H	9.5	1.7	ug/L		06/30/14 15:54	07/01/14 19:59	1

Client: Ashland Inc.
Project/Site: Former Hercules Brunswick Facility

TestAmerica Job ID: 680-102491-1

Client Sample ID: Blount 8
Date Collected: 06/18/14 14:52
Date Received: 06/19/14 08:51

Lab Sample ID: 680-102491-1
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<1.9	H	9.5	1.9	ug/L		06/30/14 15:54	07/01/14 19:59	1
Dibenz(a,h)anthracene	<1.6	H	9.5	1.6	ug/L		06/30/14 15:54	07/01/14 19:59	1
Indeno[1,2,3-cd]pyrene	<1.7	H	9.5	1.7	ug/L		06/30/14 15:54	07/01/14 19:59	1
3 & 4 Methylphenol	<1.2	H	9.5	1.2	ug/L		06/30/14 15:54	07/01/14 19:59	1
Naphthalene	<1.1	H	9.5	1.1	ug/L		06/30/14 15:54	07/01/14 19:59	1
Phenol	<1.4	H	9.5	1.4	ug/L		06/30/14 15:54	07/01/14 19:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*99*		*38 - 130*	*06/30/14 15:54*	*07/01/14 19:59*	*1*
2-Fluorophenol	*65*		*25 - 130*	*06/30/14 15:54*	*07/01/14 19:59*	*1*
Nitrobenzene-d5	*91*		*39 - 130*	*06/30/14 15:54*	*07/01/14 19:59*	*1*
Phenol-d5	*78*		*25 - 130*	*06/30/14 15:54*	*07/01/14 19:59*	*1*
Terphenyl-d14	*98*		*10 - 143*	*06/30/14 15:54*	*07/01/14 19:59*	*1*
2,4,6-Tribromophenol	*113*		*31 - 141*	*06/30/14 15:54*	*07/01/14 19:59*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	<0.022		0.050	0.022	ug/L		06/23/14 16:39	06/26/14 02:05	1
gamma-BHC (Lindane)	<0.019		0.050	0.019	ug/L		06/23/14 16:39	06/26/14 02:05	1
Toxaphene, Technical	<0.51		5.0	0.51	ug/L		06/23/14 16:39	06/26/14 02:05	1
Toxaphene, TAUC, Parlar 11-69	<0.51		5.0	0.51	ug/L		06/23/14 16:39	06/26/14 02:05	1
delta-BHC	<0.022		0.050	0.022	ug/L		06/23/14 16:39	06/26/14 02:05	1
Heptachlor	<0.023		0.050	0.023	ug/L		06/23/14 16:39	06/26/14 02:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*79*		*10 - 130*	*06/23/14 16:39*	*06/26/14 02:05*	*1*
Tetrachloro-m-xylene	*57*		*39 - 130*	*06/23/14 16:39*	*06/26/14 02:05*	*1*

Method: 8315A - Carbonyl Compounds (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Formaldehyde	<5.0		50	5.0	ug/L		06/20/14 09:20	06/20/14 13:32	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<1.3		2.5	1.3	ug/L		06/24/14 14:22	06/28/14 23:00	1
Barium	**49**		5.0	1.4	ug/L		06/24/14 14:22	06/28/14 23:00	1
Cobalt	<0.12		0.50	0.12	ug/L		06/24/14 14:22	06/28/14 23:00	1
Chromium	<2.5		5.0	2.5	ug/L		06/24/14 14:22	06/28/14 23:00	1
Nickel	<2.0		5.0	2.0	ug/L		06/24/14 14:22	06/28/14 23:00	1
Selenium	<1.1		2.5	1.1	ug/L		06/24/14 14:22	06/28/14 23:00	1
Vanadium	<3.2		10	3.2	ug/L		06/24/14 14:22	06/28/14 23:00	1
Zinc	<8.4		20	8.4	ug/L		06/24/14 14:22	06/28/14 23:00	1

Client Sample ID: Blount 10

Date Collected: 06/18/14 15:56
Date Received: 06/19/14 08:51

Lab Sample ID: 680-102491-2

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.0		25	5.0	ug/L			06/29/14 18:33	1
Benzene	<0.25		1.0	0.25	ug/L			06/29/14 18:33	1
2-Butanone	<1.0		10	1.0	ug/L			06/29/14 18:33	1
Carbon disulfide	<0.60		2.0	0.60	ug/L			06/29/14 18:33	1
Carbon tetrachloride	<0.50		1.0	0.50	ug/L			06/29/14 18:33	1
Chlorobenzene	<0.25		1.0	0.25	ug/L			06/29/14 18:33	1
Chloroform	<0.14		1.0	0.14	ug/L			06/29/14 18:33	1
cis-1,2-Dichloroethene	<0.15		1.0	0.15	ug/L			06/29/14 18:33	1
1,2-Dichlorobenzene	<0.21		1.0	0.21	ug/L			06/29/14 18:33	1
1,4-Dichlorobenzene	<0.28		1.0	0.28	ug/L			06/29/14 18:33	1
1,1-Dichloroethane	<0.25		1.0	0.25	ug/L			06/29/14 18:33	1
1,1-Dichloroethene	<0.11		1.0	0.11	ug/L			06/29/14 18:33	1
1,2-Dichloropropane	<0.13		1.0	0.13	ug/L			06/29/14 18:33	1
Ethylbenzene	<0.11		1.0	0.11	ug/L			06/29/14 18:33	1
Methylene Chloride	<1.0		5.0	1.0	ug/L			06/29/14 18:33	1
Methyl isobutyl ketone (MIBK)	<1.0		10	1.0	ug/L			06/29/14 18:33	1
p-Cymene	<0.13		1.0	0.13	ug/L			06/29/14 18:33	1
Tetrachloroethene	<0.15		1.0	0.15	ug/L			06/29/14 18:33	1
Toluene	<0.33		1.0	0.33	ug/L			06/29/14 18:33	1
1,2,4-Trichlorobenzene	<0.25		1.0	0.25	ug/L			06/29/14 18:33	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			06/29/14 18:33	1
Vinyl chloride	<0.18		1.0	0.18	ug/L			06/29/14 18:33	1
Xylenes, Total	<0.20		2.0	0.20	ug/L			06/29/14 18:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*70 - 130*		*06/29/14 18:33*	*1*
Dibromofluoromethane	*106*		*70 - 130*		*06/29/14 18:33*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*06/29/14 18:33*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetophenone	<1.8		9.9	1.8	ug/L		06/23/14 16:39	07/01/14 14:59	1
Benzo[g,h,i]perylene	<2.0		9.9	2.0	ug/L		06/23/14 16:39	07/01/14 14:59	1
Dibenz(a,h)anthracene	<1.7	*	9.9	1.7	ug/L		06/23/14 16:39	07/01/14 14:59	1
Indeno[1,2,3-cd]pyrene	<1.8	*	9.9	1.8	ug/L		06/23/14 16:39	07/01/14 14:59	1
3 & 4 Methylphenol	<1.3		9.9	1.3	ug/L		06/23/14 16:39	07/01/14 14:59	1
Naphthalene	<1.2	*	9.9	1.2	ug/L		06/23/14 16:39	07/01/14 14:59	1
Phenol	<1.5		9.9	1.5	ug/L		06/23/14 16:39	07/01/14 14:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*65*		*38 - 130*	*06/23/14 16:39*	*07/01/14 14:59*	*1*
2-Fluorophenol	*53*		*25 - 130*	*06/23/14 16:39*	*07/01/14 14:59*	*1*
Nitrobenzene-d5	*68*		*39 - 130*	*06/23/14 16:39*	*07/01/14 14:59*	*1*
Phenol-d5	*59*		*25 - 130*	*06/23/14 16:39*	*07/01/14 14:59*	*1*
Terphenyl-d14	*90*		*10 - 143*	*06/23/14 16:39*	*07/01/14 14:59*	*1*
2,4,6-Tribromophenol	*83*		*31 - 141*	*06/23/14 16:39*	*07/01/14 14:59*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetophenone	<1.7	H	9.4	1.7	ug/L		06/30/14 15:54	07/01/14 20:25	1

Client Sample ID: Blount 10
Date Collected: 06/18/14 15:56
Date Received: 06/19/14 08:51

Lab Sample ID: 680-102491-2
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<1.9	H	9.4	1.9	ug/L		06/30/14 15:54	07/01/14 20:25	1
Dibenz(a,h)anthracene	<1.6	H	9.4	1.6	ug/L		06/30/14 15:54	07/01/14 20:25	1
Indeno[1,2,3-cd]pyrene	<1.7	H	9.4	1.7	ug/L		06/30/14 15:54	07/01/14 20:25	1
3 & 4 Methylphenol	<1.2	H	9.4	1.2	ug/L		06/30/14 15:54	07/01/14 20:25	1
Naphthalene	<1.1	H	9.4	1.1	ug/L		06/30/14 15:54	07/01/14 20:25	1
Phenol	<1.4	H	9.4	1.4	ug/L		06/30/14 15:54	07/01/14 20:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*76*		*38 - 130*	*06/30/14 15:54*	*07/01/14 20:25*	*1*
2-Fluorophenol	*62*		*25 - 130*	*06/30/14 15:54*	*07/01/14 20:25*	*1*
Nitrobenzene-d5	*72*		*39 - 130*	*06/30/14 15:54*	*07/01/14 20:25*	*1*
Phenol-d5	*68*		*25 - 130*	*06/30/14 15:54*	*07/01/14 20:25*	*1*
Terphenyl-d14	*79*		*10 - 143*	*06/30/14 15:54*	*07/01/14 20:25*	*1*
2,4,6-Tribromophenol	*109*		*31 - 141*	*06/30/14 15:54*	*07/01/14 20:25*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	<0.023		0.051	0.023	ug/L		06/23/14 16:39	06/26/14 01:50	1
gamma-BHC (Lindane)	<0.020		0.051	0.020	ug/L		06/23/14 16:39	06/26/14 01:50	1
Toxaphene, Technical	<0.52		5.1	0.52	ug/L		06/23/14 16:39	06/26/14 01:50	1
Toxaphene, TAUC, Parlar 11-69	<0.52		5.1	0.52	ug/L		06/23/14 16:39	06/26/14 01:50	1
delta-BHC	<0.023		0.051	0.023	ug/L		06/23/14 16:39	06/26/14 01:50	1
Heptachlor	<0.024		0.051	0.024	ug/L		06/23/14 16:39	06/26/14 01:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*84*		*10 - 130*	*06/23/14 16:39*	*06/26/14 01:50*	*1*
Tetrachloro-m-xylene	*60*		*39 - 130*	*06/23/14 16:39*	*06/26/14 01:50*	*1*

Method: 8315A - Carbonyl Compounds (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Formaldehyde	<5.0		50	5.0	ug/L		06/20/14 09:20	06/20/14 13:44	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<1.3		2.5	1.3	ug/L		06/24/14 14:22	06/28/14 23:36	1
Barium	**20**		5.0	1.4	ug/L		06/24/14 14:22	06/28/14 23:36	1
Cobalt	<0.12		0.50	0.12	ug/L		06/24/14 14:22	06/28/14 23:36	1
Chromium	<2.5		5.0	2.5	ug/L		06/24/14 14:22	06/28/14 23:36	1
Nickel	<2.0		5.0	2.0	ug/L		06/24/14 14:22	06/28/14 23:36	1
Selenium	<1.1		2.5	1.1	ug/L		06/24/14 14:22	06/28/14 23:36	1
Vanadium	<3.2		10	3.2	ug/L		06/24/14 14:22	06/28/14 23:36	1
Zinc	**14**	**J**	20	8.4	ug/L		06/24/14 14:22	06/28/14 23:36	1

Client: Ashland Inc.
Project/Site: Former Hercules Brunswick Facility

TestAmerica Job ID: 680-102491-1

Client Sample ID: TB-2
Date Collected: 06/18/14 00:00
Date Received: 06/19/14 08:51

Lab Sample ID: 680-102491-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.0		25	5.0	ug/L			06/29/14 17:41	1
Benzene	<0.25		1.0	0.25	ug/L			06/29/14 17:41	1
2-Butanone	<1.0		10	1.0	ug/L			06/29/14 17:41	1
Carbon disulfide	<0.60		2.0	0.60	ug/L			06/29/14 17:41	1
Carbon tetrachloride	<0.50		1.0	0.50	ug/L			06/29/14 17:41	1
Chlorobenzene	<0.25		1.0	0.25	ug/L			06/29/14 17:41	1
Chloroform	<0.14		1.0	0.14	ug/L			06/29/14 17:41	1
cis-1,2-Dichloroethene	<0.15		1.0	0.15	ug/L			06/29/14 17:41	1
1,2-Dichlorobenzene	<0.21		1.0	0.21	ug/L			06/29/14 17:41	1
1,4-Dichlorobenzene	<0.28		1.0	0.28	ug/L			06/29/14 17:41	1
1,1-Dichloroethane	<0.25		1.0	0.25	ug/L			06/29/14 17:41	1
1,1-Dichloroethene	<0.11		1.0	0.11	ug/L			06/29/14 17:41	1
1,2-Dichloropropane	<0.13		1.0	0.13	ug/L			06/29/14 17:41	1
Ethylbenzene	<0.11		1.0	0.11	ug/L			06/29/14 17:41	1
Methylene Chloride	<1.0		5.0	1.0	ug/L			06/29/14 17:41	1
Methyl isobutyl ketone (MIBK)	<1.0		10	1.0	ug/L			06/29/14 17:41	1
p-Cymene	<0.13		1.0	0.13	ug/L			06/29/14 17:41	1
Tetrachloroethene	<0.15		1.0	0.15	ug/L			06/29/14 17:41	1
Toluene	<0.33		1.0	0.33	ug/L			06/29/14 17:41	1
1,2,4-Trichlorobenzene	<0.25		1.0	0.25	ug/L			06/29/14 17:41	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			06/29/14 17:41	1
Vinyl chloride	<0.18		1.0	0.18	ug/L			06/29/14 17:41	1
Xylenes, Total	<0.20		2.0	0.20	ug/L			06/29/14 17:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*70 - 130*		*06/29/14 17:41*	*1*
Dibromofluoromethane	*108*		*70 - 130*		*06/29/14 17:41*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*06/29/14 17:41*	*1*

Surrogate Summary

Client: Ashland Inc.
Project/Site: Former Hercules Brunswick Facility

TestAmerica Job ID: 680-102491-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)
680-102491-1	Blount 8	102	105	100
680-102491-2	Blount 10	99	106	100
680-102491-3	TB-2	99	108	101
LCS 680-336820/5	Lab Control Sample	105	103	105
LCSD 680-336820/6	Lab Control Sample Dup	106	102	107
MB 680-336820/9	Method Blank	101	108	101

Surrogate Legend

BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TPH	TBP
Lab Sample ID	Client Sample ID	(38-130)	(25-130)	(39-130)	(25-130)	(10-143)	(31-141)
680-102491-1 - RE	Blount 8	99	65	91	78	98	113
680-102491-1	Blount 8	77	63	69	72	83	87
680-102491-2 - RE	Blount 10	76	62	72	68	79	109
680-102491-2	Blount 10	65	53	68	59	90	83
LCS 680-335718/10-A	Lab Control Sample	43	43	47	44	43	56
LCS 680-336861/8-A	Lab Control Sample	76	65	83	57	74	99
LCSD 680-335718/11-A	Lab Control Sample Dup	61	59	65	63	63	78
MB 680-335718/9-A	Method Blank	56	55	61	58	67	74
MB 680-336861/7-A	Method Blank	89	73	95	90	99	106

Surrogate Legend

FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPH = Terphenyl-d14
TBP = 2,4,6-Tribromophenol

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCB2	TCX1
Lab Sample ID	Client Sample ID	(10-130)	(39-130)
680-102491-1	Blount 8	79	57
680-102491-2	Blount 10	84	60
MB 680-335731/6-A	Method Blank	67	68

Surrogate Legend

DCB = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Surrogate Summary

Client: Ashland Inc.
Project/Site: Former Hercules Brunswick Facility

TestAmerica Job ID: 680-102491-1

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)											
		DCB2	TCX2										
Lab Sample ID	Client Sample ID	(10-130)	(39-130)										
LCS 680-335731/10-A	Lab Control Sample	59	54										
LCS 680-335731/7-A	Lab Control Sample	58	49										
LCSD 680-335731/11-A	Lab Control Sample Dup	56	49										

Surrogate Legend

DCB = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-336820/9
Matrix: Water
Analysis Batch: 336820

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.0		25	5.0	ug/L			06/29/14 17:15	1
Benzene	<0.25		1.0	0.25	ug/L			06/29/14 17:15	1
2-Butanone	<1.0		10	1.0	ug/L			06/29/14 17:15	1
Carbon disulfide	<0.60		2.0	0.60	ug/L			06/29/14 17:15	1
Carbon tetrachloride	<0.50		1.0	0.50	ug/L			06/29/14 17:15	1
Chlorobenzene	<0.25		1.0	0.25	ug/L			06/29/14 17:15	1
Chloroform	<0.14		1.0	0.14	ug/L			06/29/14 17:15	1
cis-1,2-Dichloroethene	<0.15		1.0	0.15	ug/L			06/29/14 17:15	1
1,2-Dichlorobenzene	<0.21		1.0	0.21	ug/L			06/29/14 17:15	1
1,4-Dichlorobenzene	<0.28		1.0	0.28	ug/L			06/29/14 17:15	1
1,1-Dichloroethane	<0.25		1.0	0.25	ug/L			06/29/14 17:15	1
1,1-Dichloroethene	<0.11		1.0	0.11	ug/L			06/29/14 17:15	1
1,2-Dichloropropane	<0.13		1.0	0.13	ug/L			06/29/14 17:15	1
Ethylbenzene	<0.11		1.0	0.11	ug/L			06/29/14 17:15	1
Methylene Chloride	<1.0		5.0	1.0	ug/L			06/29/14 17:15	1
Methyl isobutyl ketone (MIBK)	<1.0		10	1.0	ug/L			06/29/14 17:15	1
p-Cymene	<0.13		1.0	0.13	ug/L			06/29/14 17:15	1
Tetrachloroethene	<0.15		1.0	0.15	ug/L			06/29/14 17:15	1
Toluene	<0.33		1.0	0.33	ug/L			06/29/14 17:15	1
1,2,4-Trichlorobenzene	<0.25		1.0	0.25	ug/L			06/29/14 17:15	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			06/29/14 17:15	1
Vinyl chloride	<0.18		1.0	0.18	ug/L			06/29/14 17:15	1
Xylenes, Total	<0.20		2.0	0.20	ug/L			06/29/14 17:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*70 - 130*		*06/29/14 17:15*	*1*
Dibromofluoromethane	*108*		*70 - 130*		*06/29/14 17:15*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*06/29/14 17:15*	*1*

Lab Sample ID: LCS 680-336820/5
Matrix: Water
Analysis Batch: 336820

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	100	91.3		ug/L		91	39 - 162
Benzene	50.0	52.9		ug/L		106	74 - 123
2-Butanone	100	92.2		ug/L		92	55 - 142
Carbon disulfide	50.0	54.4		ug/L		109	63 - 142
Carbon tetrachloride	50.0	56.1		ug/L		112	70 - 131
Chlorobenzene	50.0	51.8		ug/L		104	79 - 120
Chloroform	50.0	51.4		ug/L		103	76 - 128
cis-1,2-Dichloroethene	50.0	50.7		ug/L		101	78 - 127
1,2-Dichlorobenzene	50.0	52.2		ug/L		104	77 - 124
1,4-Dichlorobenzene	50.0	52.2		ug/L		104	76 - 124
1,1-Dichloroethane	50.0	53.7		ug/L		107	69 - 132
1,1-Dichloroethene	50.0	56.7		ug/L		113	73 - 134
1,2-Dichloropropane	50.0	53.3		ug/L		107	71 - 126
Ethylbenzene	50.0	51.7		ug/L		103	78 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-336820/5
Matrix: Water
Analysis Batch: 336820

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Methylene Chloride			50.0	54.4		ug/L		109	79 - 124		
Methyl isobutyl ketone (MIBK)			100	100		ug/L		100	51 - 143		
p-Cymene			50.0	52.6		ug/L		105	69 - 129		
Tetrachloroethene			50.0	51.8		ug/L		104	77 - 128		
Toluene			50.0	53.2		ug/L		106	77 - 125		
1,2,4-Trichlorobenzene			50.0	52.8		ug/L		106	67 - 134		
1,2,3-Trichloropropane			50.0	50.0		ug/L		100	74 - 126		
Vinyl chloride			50.0	56.8		ug/L		114	58 - 141		
Xylenes, Total			150	159		ug/L		106	80 - 124		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*105*		*70 - 130*
Dibromofluoromethane	*103*		*70 - 130*
Toluene-d8 (Surr)	*105*		*70 - 130*

Lab Sample ID: LCSD 680-336820/6
Matrix: Water
Analysis Batch: 336820

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone			100	91.6		ug/L		92	39 - 162	0	50
Benzene			50.0	53.5		ug/L		107	74 - 123	1	30
2-Butanone			100	89.4		ug/L		89	55 - 142	3	30
Carbon disulfide			50.0	54.8		ug/L		110	63 - 142	1	30
Carbon tetrachloride			50.0	56.9		ug/L		114	70 - 131	1	30
Chlorobenzene			50.0	51.6		ug/L		103	79 - 120	0	30
Chloroform			50.0	52.0		ug/L		104	76 - 128	1	30
cis-1,2-Dichloroethene			50.0	50.7		ug/L		101	78 - 127	0	30
1,2-Dichlorobenzene			50.0	54.1		ug/L		108	77 - 124	4	30
1,4-Dichlorobenzene			50.0	53.6		ug/L		107	76 - 124	3	30
1,1-Dichloroethane			50.0	53.6		ug/L		107	69 - 132	0	30
1,1-Dichloroethene			50.0	57.7		ug/L		115	73 - 134	2	30
1,2-Dichloropropane			50.0	52.7		ug/L		105	71 - 126	1	30
Ethylbenzene			50.0	52.3		ug/L		105	78 - 125	1	30
Methylene Chloride			50.0	54.0		ug/L		108	79 - 124	1	30
Methyl isobutyl ketone (MIBK)			100	99.8		ug/L		100	51 - 143	0	30
p-Cymene			50.0	54.9		ug/L		110	69 - 129	4	50
Tetrachloroethene			50.0	53.0		ug/L		106	77 - 128	2	30
Toluene			50.0	53.4		ug/L		107	77 - 125	0	30
1,2,4-Trichlorobenzene			50.0	55.2		ug/L		110	67 - 134	5	30
1,2,3-Trichloropropane			50.0	50.2		ug/L		100	74 - 126	0	30
Vinyl chloride			50.0	57.6		ug/L		115	58 - 141	1	30
Xylenes, Total			150	163		ug/L		108	80 - 124	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*106*		*70 - 130*
Dibromofluoromethane	*102*		*70 - 130*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-336820/6
Matrix: Water
Analysis Batch: 336820

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Toluene-d8 (Surr)	107		70 - 130

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-335718/9-A
Matrix: Water
Analysis Batch: 336584

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 335718

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetophenone	<1.8		10	1.8	ug/L		06/23/14 16:39	06/27/14 18:36	1
Benzo[g,h,i]perylene	<2.0		10	2.0	ug/L		06/23/14 16:39	06/27/14 18:36	1
Dibenz(a,h)anthracene	<1.7		10	1.7	ug/L		06/23/14 16:39	06/27/14 18:36	1
Indeno[1,2,3-cd]pyrene	<1.8		10	1.8	ug/L		06/23/14 16:39	06/27/14 18:36	1
3 & 4 Methylphenol	<1.3		10	1.3	ug/L		06/23/14 16:39	06/27/14 18:36	1
Naphthalene	<1.2		10	1.2	ug/L		06/23/14 16:39	06/27/14 18:36	1
Phenol	<1.5		10	1.5	ug/L		06/23/14 16:39	06/27/14 18:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	56		38 - 130	06/23/14 16:39	06/27/14 18:36	1
2-Fluorophenol	55		25 - 130	06/23/14 16:39	06/27/14 18:36	1
Nitrobenzene-d5	61		39 - 130	06/23/14 16:39	06/27/14 18:36	1
Phenol-d5	58		25 - 130	06/23/14 16:39	06/27/14 18:36	1
Terphenyl-d14	67		10 - 143	06/23/14 16:39	06/27/14 18:36	1
2,4,6-Tribromophenol	74		31 - 141	06/23/14 16:39	06/27/14 18:36	1

Lab Sample ID: LCS 680-335718/10-A
Matrix: Water
Analysis Batch: 336584

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 335718

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetophenone	100	47.2		ug/L		47	40 - 103
Benzo[g,h,i]perylene	100	45.0		ug/L		45	42 - 114
Dibenz(a,h)anthracene	100	48.6		ug/L		49	48 - 110
Indeno[1,2,3-cd]pyrene	100	54.6		ug/L		55	34 - 115
3 & 4 Methylphenol	100	48.3		ug/L		48	41 - 105
Naphthalene	100	26.3	*	ug/L		26	29 - 91
Phenol	100	44.6		ug/L		45	34 - 97

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	43		38 - 130
2-Fluorophenol	43		25 - 130
Nitrobenzene-d5	47		39 - 130
Phenol-d5	44		25 - 130
Terphenyl-d14	43		10 - 143
2,4,6-Tribromophenol	56		31 - 141

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-335718/11-A
Matrix: Water
Analysis Batch: 336584

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 335718

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetophenone	100	64.0		ug/L		64	40 - 103	30	30
Benzo[g,h,i]perylene	100	69.0		ug/L		69	42 - 114	42	50
Dibenz(a,h)anthracene	100	73.9	*	ug/L		74	48 - 110	41	40
Indeno[1,2,3-cd]pyrene	100	84.9	*	ug/L		85	34 - 115	43	40
3 & 4 Methylphenol	100	65.3		ug/L		65	41 - 105	30	50
Naphthalene	100	36.1		ug/L		36	29 - 91	32	40
Phenol	100	62.2		ug/L		62	34 - 97	33	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*61*		*38 - 130*
2-Fluorophenol	*59*		*25 - 130*
Nitrobenzene-d5	*65*		*39 - 130*
Phenol-d5	*63*		*25 - 130*
Terphenyl-d14	*63*		*10 - 143*
2,4,6-Tribromophenol	*78*		*31 - 141*

Lab Sample ID: MB 680-336861/7-A
Matrix: Water
Analysis Batch: 337321

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 336861

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetophenone	<1.8		10	1.8	ug/L		06/30/14 15:54	07/02/14 14:26	1
Benzo[g,h,i]perylene	<2.0		10	2.0	ug/L		06/30/14 15:54	07/02/14 14:26	1
Dibenz(a,h)anthracene	<1.7		10	1.7	ug/L		06/30/14 15:54	07/02/14 14:26	1
Indeno[1,2,3-cd]pyrene	<1.8		10	1.8	ug/L		06/30/14 15:54	07/02/14 14:26	1
3 & 4 Methylphenol	<1.3		10	1.3	ug/L		06/30/14 15:54	07/02/14 14:26	1
Naphthalene	<1.2		10	1.2	ug/L		06/30/14 15:54	07/02/14 14:26	1
Phenol	<1.5		10	1.5	ug/L		06/30/14 15:54	07/02/14 14:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*89*		*38 - 130*	*06/30/14 15:54*	*07/02/14 14:26*	*1*
2-Fluorophenol	*73*		*25 - 130*	*06/30/14 15:54*	*07/02/14 14:26*	*1*
Nitrobenzene-d5	*95*		*39 - 130*	*06/30/14 15:54*	*07/02/14 14:26*	*1*
Phenol-d5	*90*		*25 - 130*	*06/30/14 15:54*	*07/02/14 14:26*	*1*
Terphenyl-d14	*99*		*10 - 143*	*06/30/14 15:54*	*07/02/14 14:26*	*1*
2,4,6-Tribromophenol	*106*		*31 - 141*	*06/30/14 15:54*	*07/02/14 14:26*	*1*

Lab Sample ID: LCS 680-336861/8-A
Matrix: Water
Analysis Batch: 337086

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 336861

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetophenone	100	82.7		ug/L		83	40 - 103
Benzo[g,h,i]perylene	100	42.0		ug/L		42	42 - 114
Dibenz(a,h)anthracene	100	69.9		ug/L		70	48 - 110
Indeno[1,2,3-cd]pyrene	100	48.1		ug/L		48	34 - 115
3 & 4 Methylphenol	100	71.6		ug/L		72	41 - 105

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-336861/8-A
Matrix: Water
Analysis Batch: 337086

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 336861

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	100	61.0		ug/L		61	29 - 91
Phenol	100	65.6		ug/L		66	34 - 97

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*76*		*38 - 130*
2-Fluorophenol	*65*		*25 - 130*
Nitrobenzene-d5	*83*		*39 - 130*
Phenol-d5	*57*		*25 - 130*
Terphenyl-d14	*74*		*10 - 143*
2,4,6-Tribromophenol	*99*		*31 - 141*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Lab Sample ID: MB 680-335731/6-A
Matrix: Water
Analysis Batch: 336284

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 335731

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	<0.0028		0.0063	0.0028	ug/L		06/23/14 16:39	06/26/14 00:39	1
gamma-BHC (Lindane)	<0.0024		0.0063	0.0024	ug/L		06/23/14 16:39	06/26/14 00:39	1
Toxaphene, Technical	<0.064		0.63	0.064	ug/L		06/23/14 16:39	06/26/14 00:39	1
Toxaphene, TAUC, Parlar 11-69	<0.064		0.63	0.064	ug/L		06/23/14 16:39	06/26/14 00:39	1
delta-BHC	<0.0028		0.0063	0.0028	ug/L		06/23/14 16:39	06/26/14 00:39	1
Heptachlor	<0.0029		0.0063	0.0029	ug/L		06/23/14 16:39	06/26/14 00:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*67*		*10 - 130*	*06/23/14 16:39*	*06/26/14 00:39*	*1*
Tetrachloro-m-xylene	*68*		*39 - 130*	*06/23/14 16:39*	*06/26/14 00:39*	*1*

Lab Sample ID: LCS 680-335731/10-A
Matrix: Water
Analysis Batch: 336284

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 335731

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toxaphene, Technical	2.00	1.92		ug/L		96	22 - 145
Toxaphene, TAUC, Parlar 11-69	2.00	2.06		ug/L		103	35 - 138

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*59*		*10 - 130*
Tetrachloro-m-xylene	*54*		*39 - 130*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Lab Sample ID: LCS 680-335731/7-A
Matrix: Water
Analysis Batch: 336284

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 335731

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
alpha-BHC			0.0250	0.0190		ug/L		76	45 - 130		
gamma-BHC (Lindane)			0.0250	0.0187		ug/L		75	47 - 130		
delta-BHC			0.0250	0.0203		ug/L		81	47 - 140		
Heptachlor			0.0250	0.0155		ug/L		62	49 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*58*		*10 - 130*
Tetrachloro-m-xylene	*49*		*39 - 130*

Lab Sample ID: LCSD 680-335731/11-A
Matrix: Water
Analysis Batch: 336284

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 335731

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toxaphene, Technical			2.00	1.94		ug/L		97	22 - 145	1	50
Toxaphene, TAUC, Parlar 11-69			2.00	2.14		ug/L		107	35 - 138	4	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*56*		*10 - 130*
Tetrachloro-m-xylene	*49*		*39 - 130*

Method: 8315A - Carbonyl Compounds (HPLC)

Lab Sample ID: MB 640-109838/1-A
Matrix: Water
Analysis Batch: 109874

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 109838

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Formaldehyde	<5.0		50	5.0	ug/L		06/20/14 09:20	06/20/14 12:57	1

Lab Sample ID: LCS 640-109838/2-A
Matrix: Water
Analysis Batch: 109874

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 109838

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Formaldehyde			150	134		ug/L		89	73 - 133		

Lab Sample ID: LCSD 640-109838/3-A
Matrix: Water
Analysis Batch: 109874

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 109838

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Formaldehyde			150	133		ug/L		88	73 - 133	1	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 680-335998/1-A
Matrix: Water
Analysis Batch: 336889

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 335998

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<1.3		2.5	1.3	ug/L		06/24/14 14:22	06/28/14 22:45	1
Barium	<1.4		5.0	1.4	ug/L		06/24/14 14:22	06/28/14 22:45	1
Cobalt	<0.12		0.50	0.12	ug/L		06/24/14 14:22	06/28/14 22:45	1
Chromium	<2.5		5.0	2.5	ug/L		06/24/14 14:22	06/28/14 22:45	1
Nickel	<2.0		5.0	2.0	ug/L		06/24/14 14:22	06/28/14 22:45	1
Selenium	<1.1		2.5	1.1	ug/L		06/24/14 14:22	06/28/14 22:45	1
Vanadium	<3.2		10	3.2	ug/L		06/24/14 14:22	06/28/14 22:45	1
Zinc	<8.4		20	8.4	ug/L		06/24/14 14:22	06/28/14 22:45	1

Lab Sample ID: LCS 680-335998/2-A
Matrix: Water
Analysis Batch: 336889

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 335998

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	100	104		ug/L		104	75 - 125
Barium	100	102		ug/L		102	75 - 125
Cobalt	50.0	53.4		ug/L		107	75 - 125
Chromium	100	106		ug/L		106	75 - 125
Nickel	100	105		ug/L		105	75 - 125
Selenium	100	100		ug/L		100	75 - 125
Vanadium	100	105		ug/L		105	75 - 125
Zinc	100	102		ug/L		102	75 - 125

Lab Sample ID: 680-102491-1 MS
Matrix: Water
Analysis Batch: 336889

Client Sample ID: Blount 8
Prep Type: Total/NA
Prep Batch: 335998

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	<1.3		100	113		ug/L		113	75 - 125
Barium	49		100	162		ug/L		113	75 - 125
Cobalt	<0.12		50.0	56.4		ug/L		113	75 - 125
Chromium	<2.5		100	116		ug/L		116	75 - 125
Nickel	<2.0		100	113		ug/L		113	75 - 125
Selenium	<1.1		100	105		ug/L		105	75 - 125
Vanadium	<3.2		100	115		ug/L		115	75 - 125
Zinc	<8.4		100	108		ug/L		108	75 - 125

Lab Sample ID: 680-102491-1 MSD
Matrix: Water
Analysis Batch: 336889

Client Sample ID: Blount 8
Prep Type: Total/NA
Prep Batch: 335998

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	<1.3		100	105		ug/L		105	75 - 125	7	20
Barium	49		100	148		ug/L		99	75 - 125	9	20
Cobalt	<0.12		50.0	51.2		ug/L		102	75 - 125	10	20
Chromium	<2.5		100	104		ug/L		104	75 - 125	10	20
Nickel	<2.0		100	105		ug/L		105	75 - 125	7	20
Selenium	<1.1		100	95.3		ug/L		95	75 - 125	9	20
Vanadium	<3.2		100	106		ug/L		106	75 - 125	8	20

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 680-102491-1 MSD
Matrix: Water
Analysis Batch: 336889

Client Sample ID: Blount 8
Prep Type: Total/NA
Prep Batch: 335998

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Zinc	<8.4		100	97.7		ug/L		98	75 - 125	10	20

GC/MS VOA

Analysis Batch: 336820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-102491-1	Blount 8	Total/NA	Water	8260B	
680-102491-2	Blount 10	Total/NA	Water	8260B	
680-102491-3	TB-2	Total/NA	Water	8260B	
LCS 680-336820/5	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-336820/6	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-336820/9	Method Blank	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 335718

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-102491-1	Blount 8	Total/NA	Water	3520C	
680-102491-2	Blount 10	Total/NA	Water	3520C	
LCS 680-335718/10-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 680-335718/11-A	Lab Control Sample Dup	Total/NA	Water	3520C	
MB 680-335718/9-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 336584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-335718/10-A	Lab Control Sample	Total/NA	Water	8270D	335718
LCSD 680-335718/11-A	Lab Control Sample Dup	Total/NA	Water	8270D	335718
MB 680-335718/9-A	Method Blank	Total/NA	Water	8270D	335718

Prep Batch: 336861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-102491-1 - RE	Blount 8	Total/NA	Water	3520C	
680-102491-2 - RE	Blount 10	Total/NA	Water	3520C	
LCS 680-336861/8-A	Lab Control Sample	Total/NA	Water	3520C	
MB 680-336861/7-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 337086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-102491-1	Blount 8	Total/NA	Water	8270D	335718
680-102491-1 - RE	Blount 8	Total/NA	Water	8270D	336861
680-102491-2	Blount 10	Total/NA	Water	8270D	335718
680-102491-2 - RE	Blount 10	Total/NA	Water	8270D	336861
LCS 680-336861/8-A	Lab Control Sample	Total/NA	Water	8270D	336861

Analysis Batch: 337321

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-336861/7-A	Method Blank	Total/NA	Water	8270D	336861

GC Semi VOA

Prep Batch: 335731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-102491-1	Blount 8	Total/NA	Water	3520C	
680-102491-2	Blount 10	Total/NA	Water	3520C	
LCS 680-335731/10-A	Lab Control Sample	Total/NA	Water	3520C	
LCS 680-335731/7-A	Lab Control Sample	Total/NA	Water	3520C	

GC Semi VOA (Continued)

Prep Batch: 335731 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 680-335731/11-A	Lab Control Sample Dup	Total/NA	Water	3520C	
MB 680-335731/6-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 336284

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-102491-1	Blount 8	Total/NA	Water	8081B/8082A	335731
680-102491-2	Blount 10	Total/NA	Water	8081B/8082A	335731
LCS 680-335731/10-A	Lab Control Sample	Total/NA	Water	8081B/8082A	335731
LCS 680-335731/7-A	Lab Control Sample	Total/NA	Water	8081B/8082A	335731
LCSD 680-335731/11-A	Lab Control Sample Dup	Total/NA	Water	8081B/8082A	335731
MB 680-335731/6-A	Method Blank	Total/NA	Water	8081B/8082A	335731

HPLC/IC

Prep Batch: 109838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-102491-1	Blount 8	Total/NA	Water	8315_W_Prep	
680-102491-2	Blount 10	Total/NA	Water	8315_W_Prep	
LCS 640-109838/2-A	Lab Control Sample	Total/NA	Water	8315_W_Prep	
LCSD 640-109838/3-A	Lab Control Sample Dup	Total/NA	Water	8315_W_Prep	
MB 640-109838/1-A	Method Blank	Total/NA	Water	8315_W_Prep	

Analysis Batch: 109874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-102491-1	Blount 8	Total/NA	Water	8315A	109838
680-102491-2	Blount 10	Total/NA	Water	8315A	109838
LCS 640-109838/2-A	Lab Control Sample	Total/NA	Water	8315A	109838
LCSD 640-109838/3-A	Lab Control Sample Dup	Total/NA	Water	8315A	109838
MB 640-109838/1-A	Method Blank	Total/NA	Water	8315A	109838

Metals

Prep Batch: 335998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-102491-1	Blount 8	Total/NA	Water	3010A	
680-102491-1 MS	Blount 8	Total/NA	Water	3010A	
680-102491-1 MSD	Blount 8	Total/NA	Water	3010A	
680-102491-2	Blount 10	Total/NA	Water	3010A	
LCS 680-335998/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 680-335998/1-A	Method Blank	Total/NA	Water	3010A	

Analysis Batch: 336889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-102491-1	Blount 8	Total/NA	Water	6020A	335998
680-102491-1 MS	Blount 8	Total/NA	Water	6020A	335998
680-102491-1 MSD	Blount 8	Total/NA	Water	6020A	335998
680-102491-2	Blount 10	Total/NA	Water	6020A	335998
LCS 680-335998/2-A	Lab Control Sample	Total/NA	Water	6020A	335998
MB 680-335998/1-A	Method Blank	Total/NA	Water	6020A	335998

Lab Chronicle

Client: Ashland Inc.
Project/Site: Former Hercules Brunswick Facility

TestAmerica Job ID: 680-102491-1

Client Sample ID: Blount 8

Lab Sample ID: 680-102491-1

Date Collected: 06/18/14 14:52

Matrix: Water

Date Received: 06/19/14 08:51

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	336820	06/29/14 18:07	JD1	TAL SAV
Total/NA	Prep	3520C			254.9 mL	0.5 mL	335718	06/23/14 16:39	RBS	TAL SAV
Total/NA	Analysis	8270D		1	254.9 mL	0.5 mL	337086	07/01/14 14:34	SMC	TAL SAV
Total/NA	Prep	3520C	RE		263.9 mL	0.5 mL	336861	06/30/14 15:54	RBS	TAL SAV
Total/NA	Analysis	8270D	RE	1	263.9 mL	0.5 mL	337086	07/01/14 19:59	SMC	TAL SAV
Total/NA	Prep	3520C			125 mL	2.5 mL	335731	06/23/14 16:39	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	125 mL	2.5 mL	336284	06/26/14 02:05	JCK	TAL SAV
Total/NA	Prep	8315_W_Prep			100 mL	4.0 mL	109838	06/20/14 09:20	DNS	TAL TAL
Total/NA	Analysis	8315A		1	100 mL	4.0 mL	109874	06/20/14 13:32	DNS	TAL TAL
Total/NA	Prep	3010A			50 mL	250 mL	335998	06/24/14 14:22	SP	TAL SAV
Total/NA	Analysis	6020A		1	50 mL	250 mL	336889	06/28/14 23:00	BWR	TAL SAV

Client Sample ID: Blount 10

Lab Sample ID: 680-102491-2

Date Collected: 06/18/14 15:56

Matrix: Water

Date Received: 06/19/14 08:51

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	336820	06/29/14 18:33	JD1	TAL SAV
Total/NA	Prep	3520C			251.3 mL	0.5 mL	335718	06/23/14 16:39	RBS	TAL SAV
Total/NA	Analysis	8270D		1	251.3 mL	0.5 mL	337086	07/01/14 14:59	SMC	TAL SAV
Total/NA	Prep	3520C	RE		264.6 mL	0.5 mL	336861	06/30/14 15:54	RBS	TAL SAV
Total/NA	Analysis	8270D	RE	1	264.6 mL	0.5 mL	337086	07/01/14 20:25	SMC	TAL SAV
Total/NA	Prep	3520C			121.6 mL	2.5 mL	335731	06/23/14 16:39	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	121.6 mL	2.5 mL	336284	06/26/14 01:50	JCK	TAL SAV
Total/NA	Prep	8315_W_Prep			100 mL	4.0 mL	109838	06/20/14 09:20	DNS	TAL TAL
Total/NA	Analysis	8315A		1	100 mL	4.0 mL	109874	06/20/14 13:44	DNS	TAL TAL
Total/NA	Prep	3010A			50 mL	250 mL	335998	06/24/14 14:22	SP	TAL SAV
Total/NA	Analysis	6020A		1	50 mL	250 mL	336889	06/28/14 23:36	BWR	TAL SAV

Client Sample ID: TB-2

Lab Sample ID: 680-102491-3

Date Collected: 06/18/14 00:00

Matrix: Water

Date Received: 06/19/14 08:51

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	336820	06/29/14 17:41	JD1	TAL SAV

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

TAL TAL = TestAmerica Tallahassee, 2846 Industrial Plaza Drive, Tallahassee, FL 32301, TEL (850)878-3994

Savannah
5102 LaRoche Avenue

Savannah, GA 31404
phone 912.354.7858 fax 912.352.0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Jon Alix	Site Contact: Tim Hassett	Date:	COC No:
Hercules, Inc.	Tel/Fax: 704-543-3925	Lab Contact: Kathy Smith	Carrier:	1 of 1 COCs

Analysis Turnaround Time
Calendar (C) or Work Days (W) _____
TAT if different from Below _____
☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day

Job No.

SDG No.

Project Name: Off Site IM
Site: Former Hercules Brunswick Facility
P O #

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	VOC's - acetone, benzene, 2 butanone (MEK), chlorobenzene, chloroform, carbon disulfide, carbon tetrachloride, 1,2 dichlorobenzene, 1,4-dichlorobenzene, 1,1-dichloroethane, 1,2-dichloroethene, cis 1,2-dichloroethene, 1,2-dichloropropane, ethylbenzene, methyl isobutyl ketone (MIBK), methylene chloride, tetrachloroethene, toluene, 1,2,4-trichlorobenzene, 1,2,3-trichloropropane, vinyl chloride, xylenes, p-cymene	8081B- Pest - Technical toxaphene, total area toxaphene (chlorinated camphene); alpha BHC, delta BHC, gamma BHC (lindane), heptachlor	6020A-Metals - arsenic, barium, chromium, cobalt, nickel, selenium, vanadium, zinc	8270 - Select Semivolatiles - Acetophenone, phenol, 3&4 methylphenol, naphthalene, benzo(g,h,i)perylene, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene	8315A - Formaldehyde		AP 9 - VOCs, SVOCs, Total Metals by 6020A, Pesticides, Herbicides, Total Toxaphene, Technical Toxaphene, P-Cymene, Formaldehydes, Cyanide, Furans, Dioxins	Sample Specific Notes:
Blount 8	6/18/14	1452	G	W	10		3	2	1	1	2			
Blount 10	6/18/14	1556	G	W	10		3	2	1	1	2			
TB-2	6/18/14		G	W	2		2							

680-102491 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant Poison B ☐ Unknown ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:
Tallahassee Lab: Contact Kathy Smith for the TA Savannah Job number when you receive samples.

180000975
680-102491

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	Antea Group	6/18/14 1700			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company: TA SV	Date/Time: 06/19/14 2.0°C

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7/3/2014

Login Sample Receipt Checklist

Client: Ashland Inc.

Job Number: 680-102491-1

Login Number: 102491

List Source: TestAmerica Savannah

List Number: 1

Creator: Conner, Keaton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Ashland Inc.
Project/Site: Former Hercules Brunswick Facility

TestAmerica Job ID: 680-102491-1

Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
	AFCEE		SAVLAB	
A2LA	DoD ELAP		399.01	02-28-15
A2LA	ISO/IEC 17025		399.01	02-28-15
Alabama	State Program	4	41450	06-30-14 *
Arkansas DEQ	State Program	6	88-0692	01-31-15
California	NELAP	9	3217CA	07-31-14 *
Colorado	State Program	8	N/A	12-31-14
Connecticut	State Program	1	PH-0161	03-31-15
Florida	NELAP	4	E87052	06-30-15
GA Dept. of Agriculture	State Program	4	N/A	06-30-14 *
Georgia	State Program	4	N/A	06-30-15
Guam	State Program	9	09-005r	04-16-15
Hawaii	State Program	9	N/A	06-30-14 *
Illinois	NELAP	5	200022	11-30-14
Indiana	State Program	5	N/A	06-30-14 *
Iowa	State Program	7	353	07-01-15
Kentucky (DW)	State Program	4	90084	12-31-14
Kentucky (UST)	State Program	4	18	06-30-15
Louisiana	NELAP	6	30690	06-30-14 *
Louisiana (DW)	NELAP	6	LA140023	12-31-14
Maine	State Program	1	GA00006	08-16-14
Maryland	State Program	3	250	12-31-14
Massachusetts	State Program	1	M-GA006	06-30-14 *
Michigan	State Program	5	9925	06-30-14 *
Mississippi	State Program	4	N/A	06-30-14 *
Montana	State Program	8	CERT0081	01-01-15
Nebraska	State Program	7	TestAmerica-Savannah	06-30-14 *
New Jersey	NELAP	2	GA769	06-30-15
New Mexico	State Program	6	N/A	06-30-14 *
New York	NELAP	2	10842	03-31-15
North Carolina (DW)	State Program	4	13701	07-31-14 *
North Carolina (WW/SW)	State Program	4	269	12-31-14
Oklahoma	State Program	6	9984	08-31-14
Pennsylvania	NELAP	3	68-00474	06-30-15
Puerto Rico	State Program	2	GA00006	12-31-14
South Carolina	State Program	4	98001	06-30-14 *
Tennessee	State Program	4	TN02961	06-30-14 *
Texas	NELAP	6	T104704185-08-TX	11-30-14
USDA	Federal		SAV 3-04	06-11-17
Virginia	NELAP	3	460161	06-14-15
Washington	State Program	10	C805	06-10-15
West Virginia (DW)	State Program	3	9950C	12-31-14
West Virginia DEP	State Program	3	94	06-30-14 *
Wisconsin	State Program	5	999819810	08-31-14
Wyoming	State Program	8	8TMS-L	06-30-14 *

Laboratory: TestAmerica Tallahassee

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

* Certification renewal pending - certification considered valid.

Certification Summary

Client: Ashland Inc.
TestAmerica Job ID: 680-102491-1
Project/Site: Former Hercules Brunswick Facility

Laboratory: TestAmerica Tallahassee (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Florida	NELAP	4	E81005	06-30-15
Georgia	State Program	4		06-30-15
Louisiana	NELAP	6	30663	06-30-14 *
New Jersey	NELAP	2	FL012	06-30-15
Texas	NELAP	6	T104704459-11-2	03-31-15
USDA	Federal		P330-08-00158	08-05-14

* Certification renewal pending - certification considered valid.

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
*	RPD of the LCS and LCSD exceeds the control limits
*	LCS or LCSD exceeds the control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-102397-1
Client Project/Site: Former Hercules Brunswick - Offsite IM

For:
Ashland Inc.
Ashland Hercules Research Center
500 Hercules Rd Bldg 8139
Wilmington, Delaware 19808

Attn: Timothy Hassett

Kathryn Smith

Authorized for release by:
6/30/2014 2:12:00 PM

Kathryn Smith, Project Manager II
(912)354-7858
kathy.smith@testamericainc.com

Table of Contents

Job ID: 680-102397-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Ashland Inc.

Project: Former Hercules Brunswick - Offsite IM

Report Number: 680-102397-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT
The samples were received on 06/17/2014; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.0 C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)
Samples Roberts 22 (680-102397-1) and TB-1 (680-102397-2) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 06/26/2014 and 06/27/2014.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SEMIVOLATILE ORGANIC COMPOUNDS (AQUEOUS)
Sample Roberts 22 (680-102397-1) was analyzed for Semivolatile Organic Compounds (Aqueous) in accordance with EPA SW-846 Method 8270D. The samples were prepared on 06/18/2014 and analyzed on 06/26/2014.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PESTICIDES AND PCBS
Sample Roberts 22 (680-102397-1) was analyzed for Pesticides and PCBs in accordance with EPA SW-846 Method 8081B_8082A. The samples were prepared on 06/23/2014 and analyzed on 06/26/2014.

This method incorporates 2nd column confirmation. Corrective action is not taken for surrogate/spike compounds unless results from both columns are unacceptable. Results outside criteria are qualified.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

FORMALDEHYDE
Sample Roberts 22 (680-102397-1) was analyzed for formaldehyde in accordance with EPA SW-846 Method 8315A. The samples were prepared on 06/17/2014 and analyzed on 06/18/2014.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

METALS (ICPMS)
Sample Roberts 22 (680-102397-1) was analyzed for Metals (ICPMS) in accordance with EPA SW-846 Method 6020A. The samples were prepared on 06/18/2014 and analyzed on 06/20/2014.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Method Summary

Client: Ashland Inc.
TestAmerica Job ID: 680-102397-1
Project/Site: Former Hercules Brunswick - Offsite IM

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL SAV
8081B/8082A	Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography	SW846	TAL SAV
8315A	Carbonyl Compounds (HPLC)	SW846	TAL TAL
6020A	Metals (ICP/MS)	SW846	TAL SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

TAL TAL = TestAmerica Tallahassee, 2846 Industrial Plaza Drive, Tallahassee, FL 32301, TEL (850)878-3994

Sample Summary

Client: Ashland Inc.
Project/Site: Former Hercules Brunswick - Offsite IM

TestAmerica Job ID: 680-102397-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-102397-1	Roberts 22	Water	06/16/14 14:57	06/17/14 09:35
680-102397-2	TB-1	Water	06/16/14 00:00	06/17/14 09:35

Client: Ashland Inc.
Project/Site: Former Hercules Brunswick - Offsite IM

TestAmerica Job ID: 680-102397-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: Ashland Inc.
Project/Site: Former Hercules Brunswick - Offsite IM

TestAmerica Job ID: 680-102397-1

Client Sample ID: Roberts 22 — Lab Sample ID: 680-102397-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	51		5.0	1.4	ug/L	1		6020A	Total/NA
Zinc	73		20	8.4	ug/L	1		6020A	Total/NA

Client Sample ID: TB-1 — Lab Sample ID: 680-102397-2

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: Roberts 22
Date Collected: 06/16/14 14:57
Date Received: 06/17/14 09:35

Lab Sample ID: 680-102397-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.0		25	5.0	ug/L			06/27/14 17:53	1
Benzene	<0.25		1.0	0.25	ug/L			06/27/14 17:53	1
2-Butanone	<1.0		10	1.0	ug/L			06/27/14 17:53	1
Carbon disulfide	<0.60		2.0	0.60	ug/L			06/27/14 17:53	1
Carbon tetrachloride	<0.50		1.0	0.50	ug/L			06/27/14 17:53	1
Chlorobenzene	<0.25		1.0	0.25	ug/L			06/27/14 17:53	1
Chloroform	<0.14		1.0	0.14	ug/L			06/27/14 17:53	1
cis-1,2-Dichloroethene	<0.15		1.0	0.15	ug/L			06/27/14 17:53	1
1,2-Dichlorobenzene	<0.21		1.0	0.21	ug/L			06/27/14 17:53	1
1,4-Dichlorobenzene	<0.28		1.0	0.28	ug/L			06/27/14 17:53	1
1,1-Dichloroethane	<0.25		1.0	0.25	ug/L			06/27/14 17:53	1
1,1-Dichloroethene	<0.11		1.0	0.11	ug/L			06/27/14 17:53	1
1,2-Dichloropropane	<0.13		1.0	0.13	ug/L			06/27/14 17:53	1
Ethylbenzene	<0.11		1.0	0.11	ug/L			06/27/14 17:53	1
Methylene Chloride	<1.0		5.0	1.0	ug/L			06/27/14 17:53	1
Methyl isobutyl ketone (MIBK)	<1.0		10	1.0	ug/L			06/27/14 17:53	1
p-Cymene	<0.13		1.0	0.13	ug/L			06/27/14 17:53	1
Tetrachloroethene	<0.15		1.0	0.15	ug/L			06/27/14 17:53	1
Toluene	<0.33		1.0	0.33	ug/L			06/27/14 17:53	1
1,2,4-Trichlorobenzene	<0.25		1.0	0.25	ug/L			06/27/14 17:53	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			06/27/14 17:53	1
Vinyl chloride	<0.18		1.0	0.18	ug/L			06/27/14 17:53	1
Xylenes, Total	<0.20		2.0	0.20	ug/L			06/27/14 17:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*70 - 130*		*06/27/14 17:53*	*1*
Dibromofluoromethane	*106*		*70 - 130*		*06/27/14 17:53*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*06/27/14 17:53*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetophenone	<1.8		10	1.8	ug/L		06/18/14 15:59	06/26/14 17:43	1
Benzo[g,h,i]perylene	<2.0		10	2.0	ug/L		06/18/14 15:59	06/26/14 17:43	1
Dibenz(a,h)anthracene	<1.7		10	1.7	ug/L		06/18/14 15:59	06/26/14 17:43	1
Indeno[1,2,3-cd]pyrene	<1.8		10	1.8	ug/L		06/18/14 15:59	06/26/14 17:43	1
3 & 4 Methylphenol	<1.3		10	1.3	ug/L		06/18/14 15:59	06/26/14 17:43	1
Naphthalene	<1.2		10	1.2	ug/L		06/18/14 15:59	06/26/14 17:43	1
Phenol	<1.5		10	1.5	ug/L		06/18/14 15:59	06/26/14 17:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*81*		*38 - 130*	*06/18/14 15:59*	*06/26/14 17:43*	*1*
2-Fluorophenol	*64*		*25 - 130*	*06/18/14 15:59*	*06/26/14 17:43*	*1*
Nitrobenzene-d5	*85*		*39 - 130*	*06/18/14 15:59*	*06/26/14 17:43*	*1*
Phenol-d5	*79*		*25 - 130*	*06/18/14 15:59*	*06/26/14 17:43*	*1*
Terphenyl-d14	*82*		*10 - 143*	*06/18/14 15:59*	*06/26/14 17:43*	*1*
2,4,6-Tribromophenol	*99*		*31 - 141*	*06/18/14 15:59*	*06/26/14 17:43*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	<0.023		0.052	0.023	ug/L		06/23/14 16:39	06/26/14 01:36	1

Client: Ashland Inc.
Project/Site: Former Hercules Brunswick - Offsite IM

TestAmerica Job ID: 680-102397-1

Client Sample ID: Roberts 22
Date Collected: 06/16/14 14:57
Date Received: 06/17/14 09:35

Lab Sample ID: 680-102397-1
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
gamma-BHC (Lindane)	<0.020		0.052	0.020	ug/L		06/23/14 16:39	06/26/14 01:36	1
Toxaphene, Technical	<0.53		5.2	0.53	ug/L		06/23/14 16:39	06/26/14 01:36	1
Toxaphene, TAUC, Parlar 11-69	<0.53		5.2	0.53	ug/L		06/23/14 16:39	06/26/14 01:36	1
delta-BHC	<0.023		0.052	0.023	ug/L		06/23/14 16:39	06/26/14 01:36	1
Heptachlor	<0.024		0.052	0.024	ug/L		06/23/14 16:39	06/26/14 01:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*83*		*10 - 130*	*06/23/14 16:39*	*06/26/14 01:36*	*1*
Tetrachloro-m-xylene	*60*		*39 - 130*	*06/23/14 16:39*	*06/26/14 01:36*	*1*

Method: 8315A - Carbonyl Compounds (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Formaldehyde	<5.0		50	5.0	ug/L		06/17/14 11:20	06/18/14 11:17	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<1.3		2.5	1.3	ug/L		06/18/14 09:02	06/20/14 00:28	1
Barium	**51**		5.0	1.4	ug/L		06/18/14 09:02	06/20/14 00:28	1
Cobalt	<0.12		0.50	0.12	ug/L		06/18/14 09:02	06/20/14 00:28	1
Chromium	<2.5		5.0	2.5	ug/L		06/18/14 09:02	06/20/14 00:28	1
Nickel	<2.0		5.0	2.0	ug/L		06/18/14 09:02	06/20/14 00:28	1
Selenium	<1.1		2.5	1.1	ug/L		06/18/14 09:02	06/20/14 00:28	1
Vanadium	<3.2		10	3.2	ug/L		06/18/14 09:02	06/20/14 00:28	1
Zinc	**73**		20	8.4	ug/L		06/18/14 09:02	06/20/14 00:28	1

Client: Ashland Inc.
Project/Site: Former Hercules Brunswick - Offsite IM

TestAmerica Job ID: 680-102397-1

Client Sample ID: TB-1
Date Collected: 06/16/14 00:00
Date Received: 06/17/14 09:35

Lab Sample ID: 680-102397-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.0		25	5.0	ug/L			06/26/14 16:11	1
Benzene	<0.25		1.0	0.25	ug/L			06/26/14 16:11	1
2-Butanone	<1.0		10	1.0	ug/L			06/26/14 16:11	1
Carbon disulfide	<0.60		2.0	0.60	ug/L			06/26/14 16:11	1
Carbon tetrachloride	<0.50		1.0	0.50	ug/L			06/26/14 16:11	1
Chlorobenzene	<0.25		1.0	0.25	ug/L			06/26/14 16:11	1
Chloroform	<0.14		1.0	0.14	ug/L			06/26/14 16:11	1
cis-1,2-Dichloroethene	<0.15		1.0	0.15	ug/L			06/26/14 16:11	1
1,2-Dichlorobenzene	<0.21		1.0	0.21	ug/L			06/26/14 16:11	1
1,4-Dichlorobenzene	<0.28		1.0	0.28	ug/L			06/26/14 16:11	1
1,1-Dichloroethane	<0.25		1.0	0.25	ug/L			06/26/14 16:11	1
1,1-Dichloroethene	<0.11		1.0	0.11	ug/L			06/26/14 16:11	1
1,2-Dichloropropane	<0.13		1.0	0.13	ug/L			06/26/14 16:11	1
Ethylbenzene	<0.11		1.0	0.11	ug/L			06/26/14 16:11	1
Methylene Chloride	<1.0		5.0	1.0	ug/L			06/26/14 16:11	1
Methyl isobutyl ketone (MIBK)	<1.0		10	1.0	ug/L			06/26/14 16:11	1
p-Cymene	<0.13		1.0	0.13	ug/L			06/26/14 16:11	1
Tetrachloroethene	<0.15		1.0	0.15	ug/L			06/26/14 16:11	1
Toluene	<0.33		1.0	0.33	ug/L			06/26/14 16:11	1
1,2,4-Trichlorobenzene	<0.25		1.0	0.25	ug/L			06/26/14 16:11	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			06/26/14 16:11	1
Vinyl chloride	<0.18		1.0	0.18	ug/L			06/26/14 16:11	1
Xylenes, Total	<0.20		2.0	0.20	ug/L			06/26/14 16:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*70 - 130*		*06/26/14 16:11*	*1*
Dibromofluoromethane	*102*		*70 - 130*		*06/26/14 16:11*	*1*
Toluene-d8 (Surr)	*93*		*70 - 130*		*06/26/14 16:11*	*1*

Surrogate Summary

Client: Ashland Inc.
Project/Site: Former Hercules Brunswick - Offsite IM

TestAmerica Job ID: 680-102397-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)
680-102397-1	Roberts 22	101	106	101
680-102397-2	TB-1	95	102	93
LCS 680-336388/4	Lab Control Sample	93	104	92
LCS 680-336558/4	Lab Control Sample	110	103	109
LCSD 680-336388/5	Lab Control Sample Dup	99	106	97
LCSD 680-336558/5	Lab Control Sample Dup	112	109	115
MB 680-336388/8	Method Blank	95	107	92
MB 680-336558/9	Method Blank	100	106	101

Surrogate Legend

BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TPH	TBP
Lab Sample ID	Client Sample ID	(38-130)	(25-130)	(39-130)	(25-130)	(10-143)	(31-141)
680-102397-1	Roberts 22	81	64	85	79	82	99
LCS 680-334852/20-A	Lab Control Sample	67	59	70	61	78	71
LCSD 680-334852/21-A	Lab Control Sample Dup	83	70	81	74	93	84
MB 680-334852/19-A	Method Blank	69	69	79	79	83	72

Surrogate Legend

FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPH = Terphenyl-d14
TBP = 2,4,6-Tribromophenol

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCB2	TCX1
Lab Sample ID	Client Sample ID	(10-130)	(39-130)
680-102397-1	Roberts 22	83	60
MB 680-335731/6-A	Method Blank	67	68

Surrogate Legend

DCB = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Surrogate Summary

Client: Ashland Inc.
Project/Site: Former Hercules Brunswick - Offsite IM

TestAmerica Job ID: 680-102397-1

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		DCB2	TCX2								
Lab Sample ID	Client Sample ID	(10-130)	(39-130)								
LCS 680-335731/10-A	Lab Control Sample	59	54								
LCS 680-335731/7-A	Lab Control Sample	58	49								
LCSD 680-335731/11-A	Lab Control Sample Dup	56	49								

Surrogate Legend

DCB = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-336388/8
Matrix: Water
Analysis Batch: 336388

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.0		25	5.0	ug/L			06/26/14 14:45	1
Benzene	<0.25		1.0	0.25	ug/L			06/26/14 14:45	1
2-Butanone	<1.0		10	1.0	ug/L			06/26/14 14:45	1
Carbon disulfide	<0.60		2.0	0.60	ug/L			06/26/14 14:45	1
Carbon tetrachloride	<0.50		1.0	0.50	ug/L			06/26/14 14:45	1
Chlorobenzene	<0.25		1.0	0.25	ug/L			06/26/14 14:45	1
Chloroform	<0.14		1.0	0.14	ug/L			06/26/14 14:45	1
cis-1,2-Dichloroethene	<0.15		1.0	0.15	ug/L			06/26/14 14:45	1
1,2-Dichlorobenzene	<0.21		1.0	0.21	ug/L			06/26/14 14:45	1
1,4-Dichlorobenzene	<0.28		1.0	0.28	ug/L			06/26/14 14:45	1
1,1-Dichloroethane	<0.25		1.0	0.25	ug/L			06/26/14 14:45	1
1,1-Dichloroethene	<0.11		1.0	0.11	ug/L			06/26/14 14:45	1
1,2-Dichloropropane	<0.13		1.0	0.13	ug/L			06/26/14 14:45	1
Ethylbenzene	<0.11		1.0	0.11	ug/L			06/26/14 14:45	1
Methylene Chloride	<1.0		5.0	1.0	ug/L			06/26/14 14:45	1
Methyl isobutyl ketone (MIBK)	<1.0		10	1.0	ug/L			06/26/14 14:45	1
p-Cymene	<0.13		1.0	0.13	ug/L			06/26/14 14:45	1
Tetrachloroethene	<0.15		1.0	0.15	ug/L			06/26/14 14:45	1
Toluene	<0.33		1.0	0.33	ug/L			06/26/14 14:45	1
1,2,4-Trichlorobenzene	<0.25		1.0	0.25	ug/L			06/26/14 14:45	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			06/26/14 14:45	1
Vinyl chloride	<0.18		1.0	0.18	ug/L			06/26/14 14:45	1
Xylenes, Total	<0.20		2.0	0.20	ug/L			06/26/14 14:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*70 - 130*		*06/26/14 14:45*	*1*
Dibromofluoromethane	*107*		*70 - 130*		*06/26/14 14:45*	*1*
Toluene-d8 (Surr)	*92*		*70 - 130*		*06/26/14 14:45*	*1*

Lab Sample ID: LCS 680-336388/4
Matrix: Water
Analysis Batch: 336388

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	100	91.8		ug/L		92	39 - 162
Benzene	50.0	47.8		ug/L		96	74 - 123
2-Butanone	100	96.8		ug/L		97	55 - 142
Carbon disulfide	50.0	53.8		ug/L		108	63 - 142
Carbon tetrachloride	50.0	56.9		ug/L		114	70 - 131
Chlorobenzene	50.0	47.7		ug/L		95	79 - 120
Chloroform	50.0	50.3		ug/L		101	76 - 128
cis-1,2-Dichloroethene	50.0	47.0		ug/L		94	78 - 127
1,2-Dichlorobenzene	50.0	42.6		ug/L		85	77 - 124
1,4-Dichlorobenzene	50.0	42.8		ug/L		86	76 - 124
1,1-Dichloroethane	50.0	48.8		ug/L		98	69 - 132
1,1-Dichloroethene	50.0	52.7		ug/L		105	73 - 134
1,2-Dichloropropane	50.0	46.7		ug/L		93	71 - 126
Ethylbenzene	50.0	47.4		ug/L		95	78 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-336388/4
Matrix: Water
Analysis Batch: 336388

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Methylene Chloride			50.0	47.1		ug/L		94	79 - 124		
Methyl isobutyl ketone (MIBK)			100	88.1		ug/L		88	51 - 143		
p-Cymene			50.0	49.2		ug/L		98	69 - 129		
Tetrachloroethene			50.0	52.8		ug/L		106	77 - 128		
Toluene			50.0	45.7		ug/L		91	77 - 125		
1,2,4-Trichlorobenzene			50.0	44.2		ug/L		88	67 - 134		
1,2,3-Trichloropropane			50.0	51.4		ug/L		103	74 - 126		
Vinyl chloride			50.0	51.5		ug/L		103	58 - 141		
Xylenes, Total			150	144		ug/L		96	80 - 124		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*93*		*70 - 130*
Dibromofluoromethane	*104*		*70 - 130*
Toluene-d8 (Surr)	*92*		*70 - 130*

Lab Sample ID: LCSD 680-336388/5
Matrix: Water
Analysis Batch: 336388

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone			100	103		ug/L		103	39 - 162	11	50
Benzene			50.0	49.9		ug/L		100	74 - 123	4	30
2-Butanone			100	101		ug/L		101	55 - 142	5	30
Carbon disulfide			50.0	51.8		ug/L		104	63 - 142	4	30
Carbon tetrachloride			50.0	57.7		ug/L		115	70 - 131	1	30
Chlorobenzene			50.0	50.4		ug/L		101	79 - 120	6	30
Chloroform			50.0	50.1		ug/L		100	76 - 128	0	30
cis-1,2-Dichloroethene			50.0	47.9		ug/L		96	78 - 127	2	30
1,2-Dichlorobenzene			50.0	45.2		ug/L		90	77 - 124	6	30
1,4-Dichlorobenzene			50.0	45.6		ug/L		91	76 - 124	6	30
1,1-Dichloroethane			50.0	49.1		ug/L		98	69 - 132	1	30
1,1-Dichloroethene			50.0	51.0		ug/L		102	73 - 134	3	30
1,2-Dichloropropane			50.0	50.1		ug/L		100	71 - 126	7	30
Ethylbenzene			50.0	49.1		ug/L		98	78 - 125	3	30
Methylene Chloride			50.0	47.9		ug/L		96	79 - 124	2	30
Methyl isobutyl ketone (MIBK)			100	95.2		ug/L		95	51 - 143	8	30
p-Cymene			50.0	50.5		ug/L		101	69 - 129	3	50
Tetrachloroethene			50.0	53.8		ug/L		108	77 - 128	2	30
Toluene			50.0	47.5		ug/L		95	77 - 125	4	30
1,2,4-Trichlorobenzene			50.0	47.0		ug/L		94	67 - 134	6	30
1,2,3-Trichloropropane			50.0	55.4		ug/L		111	74 - 126	7	30
Vinyl chloride			50.0	49.6		ug/L		99	58 - 141	4	30
Xylenes, Total			150	151		ug/L		100	80 - 124	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*70 - 130*
Dibromofluoromethane	*106*		*70 - 130*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-336388/5
Matrix: Water
Analysis Batch: 336388

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Toluene-d8 (Surr)	97		70 - 130

Lab Sample ID: MB 680-336558/9
Matrix: Water
Analysis Batch: 336558

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.0		25	5.0	ug/L			06/27/14 12:06	1
Benzene	<0.25		1.0	0.25	ug/L			06/27/14 12:06	1
2-Butanone	<1.0		10	1.0	ug/L			06/27/14 12:06	1
Carbon disulfide	<0.60		2.0	0.60	ug/L			06/27/14 12:06	1
Carbon tetrachloride	<0.50		1.0	0.50	ug/L			06/27/14 12:06	1
Chlorobenzene	<0.25		1.0	0.25	ug/L			06/27/14 12:06	1
Chloroform	<0.14		1.0	0.14	ug/L			06/27/14 12:06	1
cis-1,2-Dichloroethene	<0.15		1.0	0.15	ug/L			06/27/14 12:06	1
1,2-Dichlorobenzene	<0.21		1.0	0.21	ug/L			06/27/14 12:06	1
1,4-Dichlorobenzene	<0.28		1.0	0.28	ug/L			06/27/14 12:06	1
1,1-Dichloroethane	<0.25		1.0	0.25	ug/L			06/27/14 12:06	1
1,1-Dichloroethene	<0.11		1.0	0.11	ug/L			06/27/14 12:06	1
1,2-Dichloropropane	<0.13		1.0	0.13	ug/L			06/27/14 12:06	1
Ethylbenzene	<0.11		1.0	0.11	ug/L			06/27/14 12:06	1
Methylene Chloride	<1.0		5.0	1.0	ug/L			06/27/14 12:06	1
Methyl isobutyl ketone (MIBK)	<1.0		10	1.0	ug/L			06/27/14 12:06	1
p-Cymene	<0.13		1.0	0.13	ug/L			06/27/14 12:06	1
Tetrachloroethene	<0.15		1.0	0.15	ug/L			06/27/14 12:06	1
Toluene	<0.33		1.0	0.33	ug/L			06/27/14 12:06	1
1,2,4-Trichlorobenzene	<0.25		1.0	0.25	ug/L			06/27/14 12:06	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			06/27/14 12:06	1
Vinyl chloride	<0.18		1.0	0.18	ug/L			06/27/14 12:06	1
Xylenes, Total	<0.20		2.0	0.20	ug/L			06/27/14 12:06	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	100		70 - 130		06/27/14 12:06	1
Dibromofluoromethane	106		70 - 130		06/27/14 12:06	1
Toluene-d8 (Surr)	101		70 - 130		06/27/14 12:06	1

Lab Sample ID: LCS 680-336558/4
Matrix: Water
Analysis Batch: 336558

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	100	94.3		ug/L		94	39 - 162
Benzene	50.0	54.6		ug/L		109	74 - 123
2-Butanone	100	93.9		ug/L		94	55 - 142
Carbon disulfide	50.0	53.2		ug/L		106	63 - 142
Carbon tetrachloride	50.0	55.2		ug/L		110	70 - 131
Chlorobenzene	50.0	54.4		ug/L		109	79 - 120
Chloroform	50.0	51.7		ug/L		103	76 - 128

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-336558/4
Matrix: Water
Analysis Batch: 336558

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,2-Dichloroethene	50.0	53.3		ug/L		107	78 - 127
1,2-Dichlorobenzene	50.0	55.4		ug/L		111	77 - 124
1,4-Dichlorobenzene	50.0	55.5		ug/L		111	76 - 124
1,1-Dichloroethane	50.0	51.5		ug/L		103	69 - 132
1,1-Dichloroethene	50.0	53.0		ug/L		106	73 - 134
1,2-Dichloropropane	50.0	55.8		ug/L		112	71 - 126
Ethylbenzene	50.0	53.5		ug/L		107	78 - 125
Methylene Chloride	50.0	55.5		ug/L		111	79 - 124
Methyl isobutyl ketone (MIBK)	100	105		ug/L		105	51 - 143
p-Cymene	50.0	54.6		ug/L		109	69 - 129
Tetrachloroethene	50.0	52.3		ug/L		105	77 - 128
Toluene	50.0	54.3		ug/L		109	77 - 125
1,2,4-Trichlorobenzene	50.0	55.8		ug/L		112	67 - 134
1,2,3-Trichloropropane	50.0	52.8		ug/L		106	74 - 126
Vinyl chloride	50.0	59.2		ug/L		118	58 - 141
Xylenes, Total	150	167		ug/L		112	80 - 124

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*110*		*70 - 130*
Dibromofluoromethane	*103*		*70 - 130*
Toluene-d8 (Surr)	*109*		*70 - 130*

Lab Sample ID: LCSD 680-336558/5
Matrix: Water
Analysis Batch: 336558

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	100	93.1		ug/L		93	39 - 162	1	50
Benzene	50.0	58.1		ug/L		116	74 - 123	6	30
2-Butanone	100	93.7		ug/L		94	55 - 142	0	30
Carbon disulfide	50.0	55.2		ug/L		110	63 - 142	4	30
Carbon tetrachloride	50.0	57.7		ug/L		115	70 - 131	5	30
Chlorobenzene	50.0	55.6		ug/L		111	79 - 120	2	30
Chloroform	50.0	55.1		ug/L		110	76 - 128	6	30
cis-1,2-Dichloroethene	50.0	54.8		ug/L		110	78 - 127	3	30
1,2-Dichlorobenzene	50.0	58.5		ug/L		117	77 - 124	5	30
1,4-Dichlorobenzene	50.0	59.3		ug/L		119	76 - 124	7	30
1,1-Dichloroethane	50.0	52.8		ug/L		106	69 - 132	2	30
1,1-Dichloroethene	50.0	55.2		ug/L		110	73 - 134	4	30
1,2-Dichloropropane	50.0	58.6		ug/L		117	71 - 126	5	30
Ethylbenzene	50.0	55.0		ug/L		110	78 - 125	3	30
Methylene Chloride	50.0	59.2		ug/L		118	79 - 124	6	30
Methyl isobutyl ketone (MIBK)	100	109		ug/L		109	51 - 143	4	30
p-Cymene	50.0	61.3		ug/L		123	69 - 129	12	50
Tetrachloroethene	50.0	54.3		ug/L		109	77 - 128	4	30
Toluene	50.0	58.6		ug/L		117	77 - 125	8	30
1,2,4-Trichlorobenzene	50.0	63.6		ug/L		127	67 - 134	13	30
1,2,3-Trichloropropane	50.0	53.9		ug/L		108	74 - 126	2	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-336558/5
Matrix: Water
Analysis Batch: 336558

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vinyl chloride			50.0	60.8		ug/L		122	58 - 141	3	30
Xylenes, Total			150	173		ug/L		115	80 - 124	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*112*		*70 - 130*
Dibromofluoromethane	*109*		*70 - 130*
Toluene-d8 (Surr)	*115*		*70 - 130*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-334852/19-A
Matrix: Water
Analysis Batch: 335156

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 334852

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetophenone	<1.8		10	1.8	ug/L		06/18/14 15:59	06/19/14 21:02	1
Benzo[g,h,i]perylene	<2.0		10	2.0	ug/L		06/18/14 15:59	06/19/14 21:02	1
Dibenz(a,h)anthracene	<1.7		10	1.7	ug/L		06/18/14 15:59	06/19/14 21:02	1
Indeno[1,2,3-cd]pyrene	<1.8		10	1.8	ug/L		06/18/14 15:59	06/19/14 21:02	1
3 & 4 Methylphenol	<1.3		10	1.3	ug/L		06/18/14 15:59	06/19/14 21:02	1
Naphthalene	<1.2		10	1.2	ug/L		06/18/14 15:59	06/19/14 21:02	1
Phenol	<1.5		10	1.5	ug/L		06/18/14 15:59	06/19/14 21:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*69*		*38 - 130*	*06/18/14 15:59*	*06/19/14 21:02*	*1*
2-Fluorophenol	*69*		*25 - 130*	*06/18/14 15:59*	*06/19/14 21:02*	*1*
Nitrobenzene-d5	*79*		*39 - 130*	*06/18/14 15:59*	*06/19/14 21:02*	*1*
Phenol-d5	*79*		*25 - 130*	*06/18/14 15:59*	*06/19/14 21:02*	*1*
Terphenyl-d14	*83*		*10 - 143*	*06/18/14 15:59*	*06/19/14 21:02*	*1*
2,4,6-Tribromophenol	*72*		*31 - 141*	*06/18/14 15:59*	*06/19/14 21:02*	*1*

Lab Sample ID: LCS 680-334852/20-A
Matrix: Water
Analysis Batch: 335156

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 334852

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetophenone			100	74.5		ug/L		75	40 - 103
Benzo[g,h,i]perylene			100	69.3		ug/L		69	42 - 114
Dibenz(a,h)anthracene			100	72.6		ug/L		73	48 - 110
Indeno[1,2,3-cd]pyrene			100	63.8		ug/L		64	34 - 115
3 & 4 Methylphenol			100	73.7		ug/L		74	41 - 105
Naphthalene			100	52.1		ug/L		52	29 - 91
Phenol			100	68.8		ug/L		69	34 - 97

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*67*		*38 - 130*
2-Fluorophenol	*59*		*25 - 130*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-334852/20-A
Matrix: Water
Analysis Batch: 335156

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 334852

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5	*70*		*39 - 130*
Phenol-d5	*61*		*25 - 130*
Terphenyl-d14	*78*		*10 - 143*
2,4,6-Tribromophenol	*71*		*31 - 141*

Lab Sample ID: LCSD 680-334852/21-A
Matrix: Water
Analysis Batch: 335156

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 334852

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetophenone	100	86.0		ug/L		86	40 - 103	14	30
Benzo[g,h,i]perylene	100	83.6		ug/L		84	42 - 114	19	50
Dibenz(a,h)anthracene	100	89.1		ug/L		89	48 - 110	20	40
Indeno[1,2,3-cd]pyrene	100	77.5		ug/L		78	34 - 115	19	40
3 & 4 Methylphenol	100	83.3		ug/L		83	41 - 105	12	50
Naphthalene	100	61.0		ug/L		61	29 - 91	16	40
Phenol	100	78.7		ug/L		79	34 - 97	13	50

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl	*83*		*38 - 130*
2-Fluorophenol	*70*		*25 - 130*
Nitrobenzene-d5	*81*		*39 - 130*
Phenol-d5	*74*		*25 - 130*
Terphenyl-d14	*93*		*10 - 143*
2,4,6-Tribromophenol	*84*		*31 - 141*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Lab Sample ID: MB 680-335731/6-A
Matrix: Water
Analysis Batch: 336284

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 335731

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	<0.0028		0.0063	0.0028	ug/L		06/23/14 16:39	06/26/14 00:39	1
gamma-BHC (Lindane)	<0.0024		0.0063	0.0024	ug/L		06/23/14 16:39	06/26/14 00:39	1
Toxaphene, Technical	<0.064		0.63	0.064	ug/L		06/23/14 16:39	06/26/14 00:39	1
Toxaphene, TAUC, Parlar 11-69	<0.064		0.63	0.064	ug/L		06/23/14 16:39	06/26/14 00:39	1
delta-BHC	<0.0028		0.0063	0.0028	ug/L		06/23/14 16:39	06/26/14 00:39	1
Heptachlor	<0.0029		0.0063	0.0029	ug/L		06/23/14 16:39	06/26/14 00:39	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*67*		*10 - 130*	*06/23/14 16:39*	*06/26/14 00:39*	*1*
Tetrachloro-m-xylene	*68*		*39 - 130*	*06/23/14 16:39*	*06/26/14 00:39*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Lab Sample ID: LCS 680-335731/10-A
Matrix: Water
Analysis Batch: 336284

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 335731

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toxaphene, Technical	2.00	1.92		ug/L		96	22 - 145
Toxaphene, TAUC, Parlar 11-69	2.00	2.06		ug/L		103	35 - 138

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*59*		*10 - 130*
Tetrachloro-m-xylene	*54*		*39 - 130*

Lab Sample ID: LCS 680-335731/7-A
Matrix: Water
Analysis Batch: 336284

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 335731

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
alpha-BHC	0.0250	0.0190		ug/L		76	45 - 130
gamma-BHC (Lindane)	0.0250	0.0187		ug/L		75	47 - 130
delta-BHC	0.0250	0.0203		ug/L		81	47 - 140
Heptachlor	0.0250	0.0155		ug/L		62	49 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*58*		*10 - 130*
Tetrachloro-m-xylene	*49*		*39 - 130*

Lab Sample ID: LCSD 680-335731/11-A
Matrix: Water
Analysis Batch: 336284

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 335731

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toxaphene, Technical	2.00	1.94		ug/L		97	22 - 145	1	50
Toxaphene, TAUC, Parlar 11-69	2.00	2.14		ug/L		107	35 - 138	4	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*56*		*10 - 130*
Tetrachloro-m-xylene	*49*		*39 - 130*

Method: 8315A - Carbonyl Compounds (HPLC)

Lab Sample ID: MB 640-109784/1-A
Matrix: Water
Analysis Batch: 109827

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 109784

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Formaldehyde	<5.0		50	5.0	ug/L		06/17/14 11:20	06/18/14 10:06	1

Method: 8315A - Carbonyl Compounds (HPLC) (Continued)

Lab Sample ID: LCS 640-109784/2-A
Matrix: Water
Analysis Batch: 109827

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 109784

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Formaldehyde	150	155		ug/L		103	73 - 133

Lab Sample ID: LCSD 640-109784/3-A
Matrix: Water
Analysis Batch: 109827

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 109784

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Formaldehyde	150	155		ug/L		104	73 - 133	0	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 680-334819/1-A
Matrix: Water
Analysis Batch: 335309

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 334819

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<1.3		2.5	1.3	ug/L		06/18/14 09:02	06/19/14 22:02	1
Barium	<1.4		5.0	1.4	ug/L		06/18/14 09:02	06/19/14 22:02	1
Cobalt	<0.12		0.50	0.12	ug/L		06/18/14 09:02	06/19/14 22:02	1
Chromium	<2.5		5.0	2.5	ug/L		06/18/14 09:02	06/19/14 22:02	1
Nickel	<2.0		5.0	2.0	ug/L		06/18/14 09:02	06/19/14 22:02	1
Selenium	<1.1		2.5	1.1	ug/L		06/18/14 09:02	06/19/14 22:02	1
Vanadium	<3.2		10	3.2	ug/L		06/18/14 09:02	06/19/14 22:02	1
Zinc	<8.4		20	8.4	ug/L		06/18/14 09:02	06/19/14 22:02	1

Lab Sample ID: LCS 680-334819/2-A
Matrix: Water
Analysis Batch: 335309

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 334819

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	100	105		ug/L		105	75 - 125
Barium	100	101		ug/L		101	75 - 125
Cobalt	50.0	51.9		ug/L		104	75 - 125
Chromium	100	106		ug/L		106	75 - 125
Nickel	100	107		ug/L		107	75 - 125
Selenium	100	102		ug/L		102	75 - 125
Vanadium	100	104		ug/L		104	75 - 125
Zinc	100	104		ug/L		104	75 - 125

GC/MS VOA

Analysis Batch: 336388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-102397-2	TB-1	Total/NA	Water	8260B	
LCS 680-336388/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-336388/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-336388/8	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 336558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-102397-1	Roberts 22	Total/NA	Water	8260B	
LCS 680-336558/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-336558/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-336558/9	Method Blank	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 334852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-102397-1	Roberts 22	Total/NA	Water	3520C	
LCS 680-334852/20-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 680-334852/21-A	Lab Control Sample Dup	Total/NA	Water	3520C	
MB 680-334852/19-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 335156

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-334852/20-A	Lab Control Sample	Total/NA	Water	8270D	334852
LCSD 680-334852/21-A	Lab Control Sample Dup	Total/NA	Water	8270D	334852
MB 680-334852/19-A	Method Blank	Total/NA	Water	8270D	334852

Analysis Batch: 336396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-102397-1	Roberts 22	Total/NA	Water	8270D	334852

GC Semi VOA

Prep Batch: 335731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-102397-1	Roberts 22	Total/NA	Water	3520C	
LCS 680-335731/10-A	Lab Control Sample	Total/NA	Water	3520C	
LCS 680-335731/7-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 680-335731/11-A	Lab Control Sample Dup	Total/NA	Water	3520C	
MB 680-335731/6-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 336284

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-102397-1	Roberts 22	Total/NA	Water	8081B/8082A	335731
LCS 680-335731/10-A	Lab Control Sample	Total/NA	Water	8081B/8082A	335731
LCS 680-335731/7-A	Lab Control Sample	Total/NA	Water	8081B/8082A	335731
LCSD 680-335731/11-A	Lab Control Sample Dup	Total/NA	Water	8081B/8082A	335731
MB 680-335731/6-A	Method Blank	Total/NA	Water	8081B/8082A	335731

QC Association Summary

Client: Ashland Inc.
Project/Site: Former Hercules Brunswick - Offsite IM

TestAmerica Job ID: 680-102397-1

HPLC/IC

Prep Batch: 109784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-102397-1	Roberts 22	Total/NA	Water	8315_W_Prep	
LCS 640-109784/2-A	Lab Control Sample	Total/NA	Water	8315_W_Prep	
LCSD 640-109784/3-A	Lab Control Sample Dup	Total/NA	Water	8315_W_Prep	
MB 640-109784/1-A	Method Blank	Total/NA	Water	8315_W_Prep	

Analysis Batch: 109827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-102397-1	Roberts 22	Total/NA	Water	8315A	109784
LCS 640-109784/2-A	Lab Control Sample	Total/NA	Water	8315A	109784
LCSD 640-109784/3-A	Lab Control Sample Dup	Total/NA	Water	8315A	109784
MB 640-109784/1-A	Method Blank	Total/NA	Water	8315A	109784

Metals

Prep Batch: 334819

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-102397-1	Roberts 22	Total/NA	Water	3010A	
LCS 680-334819/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 680-334819/1-A	Method Blank	Total/NA	Water	3010A	

Analysis Batch: 335309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-102397-1	Roberts 22	Total/NA	Water	6020A	334819
LCS 680-334819/2-A	Lab Control Sample	Total/NA	Water	6020A	334819
MB 680-334819/1-A	Method Blank	Total/NA	Water	6020A	334819

Lab Chronicle

Client: Ashland Inc.
Project/Site: Former Hercules Brunswick - Offsite IM

TestAmerica Job ID: 680-102397-1

Client Sample ID: Roberts 22

Lab Sample ID: 680-102397-1

Date Collected: 06/16/14 14:57

Matrix: Water

Date Received: 06/17/14 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	336558	06/27/14 17:53	TF1	TAL SAV
Total/NA	Prep	3520C			248.6 mL	0.5 mL	334852	06/18/14 15:59	RBS	TAL SAV
Total/NA	Analysis	8270D		1	248.6 mL	0.5 mL	336396	06/26/14 17:43	SMC	TAL SAV
Total/NA	Prep	3520C			120.1 mL	2.5 mL	335731	06/23/14 16:39	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	120.1 mL	2.5 mL	336284	06/26/14 01:36	JCK	TAL SAV
Total/NA	Prep	8315_W_Prep			100 mL	4.0 mL	109784	06/17/14 11:20	DNS	TAL TAL
Total/NA	Analysis	8315A		1	100 mL	4.0 mL	109827	06/18/14 11:17	DNS	TAL TAL
Total/NA	Prep	3010A			50 mL	250 mL	334819	06/18/14 09:02	SP	TAL SAV
Total/NA	Analysis	6020A		1	50 mL	250 mL	335309	06/20/14 00:28	BWR	TAL SAV

Client Sample ID: TB-1

Lab Sample ID: 680-102397-2

Date Collected: 06/16/14 00:00

Matrix: Water

Date Received: 06/17/14 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	336388	06/26/14 16:11	CAR	TAL SAV

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

TAL TAL = TestAmerica Tallahassee, 2846 Industrial Plaza Drive, Tallahassee, FL 32301, TEL (850)878-3994

› .ie Avenue
Savannah, GA 31404
phone 912.354.7858 fax 912.352.0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Jon Alix	Site Contact: Tim Hassett	Date:	COC No:
Hercules, Inc.	Tel/Fax: 704-543-3925	Lab Contact: Kathy Smith	Carrier:	1 of 1 COCs

Analysis Turnaround Time
Calendar (C) or Work Days (W) _____
TAT if different from Below _____
☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day

Project Name: Offsite IM
Site: Former Hercules Brunswick Facility
P O #

Job No.
SDG No.

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	VOC's - acetone, benzene, 2 butanone (MEK), chlorobenzene, chloroform, carbon disulfide, carbon tetrachloride, 1,2 dichlorobenzene, 1,4-dichlorobenzene, 1,1-dichloroethane, 1,1-dichloroethene, cis 1,2-dichloroethene, 1,2-dichloropropane, ethylbenzene, methyl isobutyl ketone (MIBK), methylene chloride, tetrachloroethene, toluene, 1,2,4-trichlorobenzene, 1,2,3-trichloropropane, vinyl chloride, xylenes, p-cymene	8081B- Pest - Technical toxaphene, total aroa toxaphene (chlorinated camphenes; alpha BHC, delta BHC, gamma BHC (lindane), heptachlor	6020A-Metals - arsenic, barium, chromium, cobalt, nickel, selenium, vanadium, zinc	8270 - Select Semivolatiles - Acetophenone, phenol, 3&4 methylphenol, naphthalene, benzo(g,h,i)perylene, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene	8315A - Formaldehyde		AP 9 - VOCs, SVOCs, Total Metals by 6020A, Pesticides, Herbicides, Total Toxaphene, Technical Toxaphene, P-Cymene, Formaldehyde, Cyanide, Furans, Dioxins	Sample Specific Notes:
Roberts 22	06/16/14	1457	G	W	10		3	2	1	2	2			
TB-1	6/16/14		G	W	2		2							

680-102397 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant Poison B ☐ Unknown ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:
Tallahassee Lab: Contact Kathy Smith for the TA Savannah Job number when you receive samples.

2.0°C 680-102397

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	Antea	6-16-14 / 1630			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
				TA	6/17/14 0935
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

Login Sample Receipt Checklist

Client: Ashland Inc.

Job Number: 680-102397-1

Login Number: 102397

List Source: TestAmerica Savannah

List Number: 1

Creator: Kicklighter, Marilyn D

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Ashland Inc.

Job Number: 680-102397-1

Login Number: 102397
List Number: 2
Creator: Carpenter, Jonnie T

List Source: TestAmerica Tallahassee
List Creation: 06/18/14 10:14 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Ashland Inc.
TestAmerica Job ID: 680-102397-1
Project/Site: Former Hercules Brunswick - Offsite IM

Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
	AFCEE		SAVLAB	
A2LA	DoD ELAP		399.01	02-28-15
A2LA	ISO/IEC 17025		399.01	02-28-15
Alabama	State Program	4	41450	06-30-14 *
Arkansas DEQ	State Program	6	88-0692	01-31-15
California	NELAP	9	3217CA	07-31-14 *
Colorado	State Program	8	N/A	12-31-14
Connecticut	State Program	1	PH-0161	03-31-15
Florida	NELAP	4	E87052	06-30-15
GA Dept. of Agriculture	State Program	4	N/A	06-30-14 *
Georgia	State Program	4	N/A	06-30-15
Guam	State Program	9	09-005r	04-16-15
Hawaii	State Program	9	N/A	06-30-14 *
Illinois	NELAP	5	200022	11-30-14
Indiana	State Program	5	N/A	06-30-14 *
Iowa	State Program	7	353	07-01-15
Kentucky (DW)	State Program	4	90084	12-31-14
Kentucky (UST)	State Program	4	18	06-30-15
Louisiana	NELAP	6	30690	06-30-14 *
Louisiana (DW)	NELAP	6	LA140023	12-31-14
Maine	State Program	1	GA00006	08-16-14
Maryland	State Program	3	250	12-31-14
Massachusetts	State Program	1	M-GA006	06-30-14 *
Michigan	State Program	5	9925	06-30-14 *
Mississippi	State Program	4	N/A	06-30-14 *
Montana	State Program	8	CERT0081	01-01-15
Nebraska	State Program	7	TestAmerica-Savannah	06-30-14 *
New Jersey	NELAP	2	GA769	06-30-15
New Mexico	State Program	6	N/A	06-30-14 *
New York	NELAP	2	10842	03-31-15
North Carolina (DW)	State Program	4	13701	07-31-14 *
North Carolina (WW/SW)	State Program	4	269	12-31-14
Oklahoma	State Program	6	9984	08-31-14
Pennsylvania	NELAP	3	68-00474	06-30-15
Puerto Rico	State Program	2	GA00006	12-31-14
South Carolina	State Program	4	98001	06-30-14 *
Tennessee	State Program	4	TN02961	06-30-14 *
Texas	NELAP	6	T104704185-08-TX	11-30-14
USDA	Federal		SAV 3-04	06-11-17
Virginia	NELAP	3	460161	06-14-15
Washington	State Program	10	C805	06-10-15
West Virginia (DW)	State Program	3	9950C	12-31-14
West Virginia DEP	State Program	3	94	06-30-14 *
Wisconsin	State Program	5	999819810	08-31-14
Wyoming	State Program	8	8TMS-L	06-30-14 *

Laboratory: TestAmerica Tallahassee

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

* Certification renewal pending - certification considered valid.

Certification Summary

Client: Ashland Inc. TestAmerica Job ID: 680-102397-1
Project/Site: Former Hercules Brunswick - Offsite IM

Laboratory: TestAmerica Tallahassee (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Florida	NELAP	4	E81005	06-30-15 *
Georgia	State Program	4		06-30-14 *
Louisiana	NELAP	6	30663	06-30-14 *
New Jersey	NELAP	2	FL012	06-30-14 *
Texas	NELAP	6	T104704459-11-2	03-31-15
USDA	Federal		P330-08-00158	08-05-14

* Certification renewal pending - certification considered valid.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-103380-1
Client Project/Site: Ashland Brunswick SA GW Monitoring

For:
Ashland Inc.
Ashland Hercules Research Center
500 Hercules Rd Bldg 8139
Wilmington, Delaware 19808

Attn: Timothy Hassett

Kathryn Smith

Authorized for release by:
7/29/2014 3:06:45 PM

Kathryn Smith, Project Manager II
(912)354-7858
kathy.smith@testamericainc.com

Table of Contents

Job ID: 680-103380-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE
Client: Ashland Inc.
Project: Ashland Brunswick SA GW Monitoring
Report Number: 680-103380-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT

The samples were received on 07/17/2014; the samples arrived in good condition, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 3.0º C, 3.8º C, 4.0º C and 4.8º C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples MW- 57D (680-103380-1), MW- 56D (680-103380-2), MW- 11DD (680-103380-3), Field Blank (680-103380-4), Equipment Blank (680-103380-5) and Trip Blank #1 (680-103380-6) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 07/21/2014.

Sample MW- 11DD (680-103380-3)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.
No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SEMIVOLATILE ORGANIC COMPOUNDS (AQUEOUS)

Samples MW- 57D (680-103380-1), MW- 56D (680-103380-2), MW- 11DD (680-103380-3), Field Blank (680-103380-4) and Equipment Blank (680-103380-5) were analyzed for Semivolatile Organic Compounds (Aqueous) in accordance with EPA SW-846 Method 8270D. The samples were prepared on 07/21/2014 and analyzed on 07/24/2014.

Phenol-d5 (Surr) recovered low for MB 680-340036/16-A and for LCS 680-340036/17-A.

3 & 4 Methylphenol and Phenol recovered low for LCS 680-340036/17-A. 3 & 4 Methylphenol, Acetophenone, Benzo[g,h,i]perylene, Dibenz(a,h)anthracene, Indeno[1,2,3-cd]pyrene, Naphthalene and Phenol exceeded the RPD limit for LCSD 680-340036/18-A.
No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PESTICIDES AND PCBS

Samples MW- 57D (680-103380-1), MW- 56D (680-103380-2), MW- 11DD (680-103380-3), Field Blank (680-103380-4) and Equipment Blank (680-103380-5) were analyzed for Pesticides and PCBs in accordance with EPA SW-846 Method 8081B_8082A. The samples were prepared on 07/22/2014 and analyzed on 07/23/2014.

This method incorporates 2nd column confirmation. Corrective action is not taken for surrogate/spike compounds unless results from both columns are unacceptable. Results outside criteria are qualified.
No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

FORMALDEHYDE

Samples MW- 57D (680-103380-1), MW- 56D (680-103380-2), MW- 11DD (680-103380-3), Field Blank (680-103380-4) and Equipment Blank (680-103380-5) were analyzed for formaldehyde in accordance with EPA SW-846 Method 8315A. The samples were prepared on 07/18/2014 and analyzed on 07/21/2014.
No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

METALS (ICPMS)

Samples MW- 57D (680-103380-1), MW- 56D (680-103380-2), MW- 11DD (680-103380-3), Field Blank (680-103380-4) and Equipment Blank (680-103380-5) were analyzed for metals (ICPMS) in accordance with EPA SW-846 Method 6020A. The samples were prepared on 07/18/2014 and analyzed on 07/23/2014.
No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Method Summary

Client: Ashland Inc.
Project/Site: Ashland Brunswick SA GW Monitoring

TestAmerica Job ID: 680-103380-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL SAV
8081B/8082A	Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography	SW846	TAL SAV
8315A	Carbonyl Compounds (HPLC)	SW846	TAL TAL
6020A	Metals (ICP/MS)	SW846	TAL SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

TAL TAL = TestAmerica Tallahassee, 2846 Industrial Plaza Drive, Tallahassee, FL 32301, TEL (850)878-3994

Sample Summary

Client: Ashland Inc.
Project/Site: Ashland Brunswick SA GW Monitoring

TestAmerica Job ID: 680-103380-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-103380-1	MW- 57D	Water	07/16/14 09:57	07/17/14 10:26
680-103380-2	MW- 56D	Water	07/16/14 10:46	07/17/14 10:26
680-103380-3	MW- 11DD	Water	07/16/14 11:49	07/17/14 10:26
680-103380-4	Field Blank	Water	07/16/14 12:45	07/17/14 10:26
680-103380-5	Equipment Blank	Water	07/16/14 12:40	07/17/14 10:26
680-103380-6	Trip Blank #1	Water	07/16/14 00:00	07/17/14 10:26

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
*	RPD of the LCS and LCSD exceeds the control limits
*	ISTD response or retention time outside acceptable limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: Ashland Inc.
Project/Site: Ashland Brunswick SA GW Monitoring

TestAmerica Job ID: 680-103380-1

Client Sample ID: MW- 57D — Lab Sample ID: 680-103380-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	3.1		1.0	0.25	ug/L	1		8260B	Total/NA
Chlorobenzene	0.58	J	1.0	0.25	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	0.37	J	1.0	0.15	ug/L	1		8260B	Total/NA
Benzo[g,h,i]perylene	4.9	J *	10	2.1	ug/L	1		8270D	Total/NA
Dibenz(a,h)anthracene	2.8	J *	10	1.8	ug/L	1		8270D	Total/NA
Formaldehyde	23	J	50	5.0	ug/L	1		8315A	Total/NA
Arsenic	1.7	J	2.5	1.3	ug/L	1		6020A	Total Recoverable
Barium	310		5.0	1.3	ug/L	1		6020A	Total Recoverable
Cobalt	2.0		0.50	0.15	ug/L	1		6020A	Total Recoverable

Client Sample ID: MW- 56D — Lab Sample ID: 680-103380-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	41		1.0	0.25	ug/L	1		8260B	Total/NA
Chlorobenzene	86		1.0	0.25	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	0.93	J	1.0	0.15	ug/L	1		8260B	Total/NA
1,2-Dichlorobenzene	0.75	J	1.0	0.21	ug/L	1		8260B	Total/NA
1,4-Dichlorobenzene	0.99	J	1.0	0.28	ug/L	1		8260B	Total/NA
1,2-Dichloropropane	1.2		1.0	0.13	ug/L	1		8260B	Total/NA
Ethylbenzene	2.9		1.0	0.11	ug/L	1		8260B	Total/NA
p-Isopropyltoluene	0.42	J	1.0	0.13	ug/L	1		8260B	Total/NA
Toluene	0.61	J	1.0	0.33	ug/L	1		8260B	Total/NA
Vinyl chloride	0.79	J	1.0	0.18	ug/L	1		8260B	Total/NA
Xylenes, Total	3.5		2.0	0.20	ug/L	1		8260B	Total/NA
Toxaphene - Total	2.1	J	4.9	0.50	ug/L	1		8081B/8082A	Total/NA
Formaldehyde	24	J	50	5.0	ug/L	1		8315A	Total/NA
Arsenic	2.8		2.5	1.3	ug/L	1		6020A	Total Recoverable
Barium	1100		5.0	1.3	ug/L	1		6020A	Total Recoverable
Cobalt	4.2		0.50	0.15	ug/L	1		6020A	Total Recoverable
Nickel	3.0	J	5.0	2.0	ug/L	1		6020A	Total Recoverable

Client Sample ID: MW- 11DD — Lab Sample ID: 680-103380-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	120		5.0	1.3	ug/L	5		8260B	Total/NA
Chlorobenzene	180		5.0	1.3	ug/L	5		8260B	Total/NA
Chloroform	540		5.0	0.70	ug/L	5		8260B	Total/NA
cis-1,2-Dichloroethene	1.1	J	5.0	0.75	ug/L	5		8260B	Total/NA
1,2-Dichlorobenzene	2.6	J	5.0	1.1	ug/L	5		8260B	Total/NA
1,4-Dichlorobenzene	3.9	J	5.0	1.4	ug/L	5		8260B	Total/NA
Ethylbenzene	8.1		5.0	0.55	ug/L	5		8260B	Total/NA
Methylene Chloride	200		25	5.0	ug/L	5		8260B	Total/NA
p-Isopropyltoluene	7.9		5.0	0.65	ug/L	5		8260B	Total/NA
Toluene	2.2	J	5.0	1.7	ug/L	5		8260B	Total/NA
Xylenes, Total	32		10	1.0	ug/L	5		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Savannah

Detection Summary

Client: Ashland Inc.
Project/Site: Ashland Brunswick SA GW Monitoring

TestAmerica Job ID: 680-103380-1

Client Sample ID: MW- 11DD (Continued) — Lab Sample ID: 680-103380-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toxaphene - Total	3.4	J p	4.7	0.48	ug/L	1		8081B/8082A	Total/NA
Formaldehyde	17	J	50	5.0	ug/L	1		8315A	Total/NA
Arsenic	3.1		2.5	1.3	ug/L	1		6020A	Total Recoverable
Barium	2000		5.0	1.3	ug/L	1		6020A	Total Recoverable
Cobalt	4.6		0.50	0.15	ug/L	1		6020A	Total Recoverable
Zinc	11	J	20	8.3	ug/L	1		6020A	Total Recoverable

Client Sample ID: Field Blank — Lab Sample ID: 680-103380-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	6.9		5.0	1.3	ug/L	1		6020A	Total Recoverable
Zinc	21		20	8.3	ug/L	1		6020A	Total Recoverable

Client Sample ID: Equipment Blank — Lab Sample ID: 680-103380-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	8.9		5.0	1.3	ug/L	1		6020A	Total Recoverable
Zinc	18	J	20	8.3	ug/L	1		6020A	Total Recoverable

Client Sample ID: Trip Blank #1 — Lab Sample ID: 680-103380-6

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW- 57D

Date Collected: 07/16/14 09:57
Date Received: 07/17/14 10:26

Lab Sample ID: 680-103380-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.0		25	5.0	ug/L			07/21/14 14:27	1
Benzene	**3.1**		1.0	0.25	ug/L			07/21/14 14:27	1
2-Butanone (MEK)	<1.0		10	1.0	ug/L			07/21/14 14:27	1
Carbon disulfide	<0.60		2.0	0.60	ug/L			07/21/14 14:27	1
Carbon tetrachloride	<0.50		1.0	0.50	ug/L			07/21/14 14:27	1
Chlorobenzene	**0.58**	**J**	1.0	0.25	ug/L			07/21/14 14:27	1
Chloroform	<0.14		1.0	0.14	ug/L			07/21/14 14:27	1
cis-1,2-Dichloroethene	**0.37**	**J**	1.0	0.15	ug/L			07/21/14 14:27	1
1,2-Dichlorobenzene	<0.21		1.0	0.21	ug/L			07/21/14 14:27	1
1,4-Dichlorobenzene	<0.28		1.0	0.28	ug/L			07/21/14 14:27	1
1,1-Dichloroethane	<0.25		1.0	0.25	ug/L			07/21/14 14:27	1
1,1-Dichloroethene	<0.11		1.0	0.11	ug/L			07/21/14 14:27	1
1,2-Dichloropropane	<0.13		1.0	0.13	ug/L			07/21/14 14:27	1
Ethylbenzene	<0.11		1.0	0.11	ug/L			07/21/14 14:27	1
Methylene Chloride	<1.0		5.0	1.0	ug/L			07/21/14 14:27	1
4-Methyl-2-pentanone (MIBK)	<1.0		10	1.0	ug/L			07/21/14 14:27	1
p-Isopropyltoluene	<0.13		1.0	0.13	ug/L			07/21/14 14:27	1
Tetrachloroethene	<0.15		1.0	0.15	ug/L			07/21/14 14:27	1
Toluene	<0.33		1.0	0.33	ug/L			07/21/14 14:27	1
1,2,4-Trichlorobenzene	<0.25		1.0	0.25	ug/L			07/21/14 14:27	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			07/21/14 14:27	1
Vinyl chloride	<0.18		1.0	0.18	ug/L			07/21/14 14:27	1
Xylenes, Total	<0.20		2.0	0.20	ug/L			07/21/14 14:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*70 - 130*		*07/21/14 14:27*	*1*
Dibromofluoromethane	*123*		*70 - 130*		*07/21/14 14:27*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*07/21/14 14:27*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3 & 4 Methylphenol	<1.4	*	10	1.4	ug/L		07/21/14 15:50	07/24/14 15:11	1
Acetophenone	<1.9	*	10	1.9	ug/L		07/21/14 15:50	07/24/14 15:11	1
Benzo[g,h,i]perylene	**4.9**	**J ***	10	2.1	ug/L		07/21/14 15:50	07/24/14 15:11	1
Dibenz(a,h)anthracene	**2.8**	**J ***	10	1.8	ug/L		07/21/14 15:50	07/24/14 15:11	1
Indeno[1,2,3-cd]pyrene	<1.9	*	10	1.9	ug/L		07/21/14 15:50	07/24/14 15:11	1
Naphthalene	<1.3	*	10	1.3	ug/L		07/21/14 15:50	07/24/14 15:11	1
Phenol	<1.6	*	10	1.6	ug/L		07/21/14 15:50	07/24/14 15:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*62*		*31 - 141*	*07/21/14 15:50*	*07/24/14 15:11*	*1*
2-Fluorobiphenyl	*73*		*38 - 130*	*07/21/14 15:50*	*07/24/14 15:11*	*1*
2-Fluorophenol (Surr)	*54*		*25 - 130*	*07/21/14 15:50*	*07/24/14 15:11*	*1*
Terphenyl-d14 (Surr)	*76*		*10 - 143*	*07/21/14 15:50*	*07/24/14 15:11*	*1*
Phenol-d5 (Surr)	*61*		*25 - 130*	*07/21/14 15:50*	*07/24/14 15:11*	*1*
Nitrobenzene-d5 (Surr)	*79*		*39 - 130*	*07/21/14 15:50*	*07/24/14 15:11*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	<0.021		0.048	0.021	ug/L		07/22/14 15:10	07/23/14 16:51	1

Client: Ashland Inc.
Project/Site: Ashland Brunswick SA GW Monitoring

TestAmerica Job ID: 680-103380-1

Client Sample ID: MW- 57D
Date Collected: 07/16/14 09:57
Date Received: 07/17/14 10:26

Lab Sample ID: 680-103380-1
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
delta-BHC	<0.021		0.048	0.021	ug/L		07/22/14 15:10	07/23/14 16:51	1
gamma-BHC (Lindane)	<0.018		0.048	0.018	ug/L		07/22/14 15:10	07/23/14 16:51	1
Heptachlor	<0.022		0.048	0.022	ug/L		07/22/14 15:10	07/23/14 16:51	1
Toxaphene, Technical	<0.49		4.8	0.49	ug/L		07/22/14 15:10	07/23/14 16:51	1
Toxaphene - Total	<0.49		4.8	0.49	ug/L		07/22/14 15:10	07/23/14 16:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*70*		*10 - 130*	*07/22/14 15:10*	*07/23/14 16:51*	*1*
Tetrachloro-m-xylene	*79*		*39 - 130*	*07/22/14 15:10*	*07/23/14 16:51*	*1*

Method: 8315A - Carbonyl Compounds (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Formaldehyde	**23**	**J**	50	5.0	ug/L		07/18/14 09:02	07/21/14 10:24	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**1.7**	**J**	2.5	1.3	ug/L		07/18/14 10:06	07/23/14 13:40	1
Barium	**310**		5.0	1.3	ug/L		07/18/14 10:06	07/23/14 13:40	1
Cobalt	**2.0**		0.50	0.15	ug/L		07/18/14 10:06	07/23/14 13:40	1
Chromium	<2.5		5.0	2.5	ug/L		07/18/14 10:06	07/23/14 13:40	1
Nickel	<2.0		5.0	2.0	ug/L		07/18/14 10:06	07/23/14 13:40	1
Selenium	<1.0		2.5	1.0	ug/L		07/18/14 10:06	07/23/14 13:40	1
Vanadium	<3.8		10	3.8	ug/L		07/18/14 10:06	07/23/14 13:40	1
Zinc	<8.3		20	8.3	ug/L		07/18/14 10:06	07/23/14 13:40	1

Client Sample ID: MW- 56D
Date Collected: 07/16/14 10:46
Date Received: 07/17/14 10:26

Lab Sample ID: 680-103380-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.0		25	5.0	ug/L			07/21/14 14:52	1
Benzene	**41**		1.0	0.25	ug/L			07/21/14 14:52	1
2-Butanone (MEK)	<1.0		10	1.0	ug/L			07/21/14 14:52	1
Carbon disulfide	<0.60		2.0	0.60	ug/L			07/21/14 14:52	1
Carbon tetrachloride	<0.50		1.0	0.50	ug/L			07/21/14 14:52	1
Chlorobenzene	**86**		1.0	0.25	ug/L			07/21/14 14:52	1
Chloroform	<0.14		1.0	0.14	ug/L			07/21/14 14:52	1
cis-1,2-Dichloroethene	**0.93**	J	1.0	0.15	ug/L			07/21/14 14:52	1
1,2-Dichlorobenzene	**0.75**	J	1.0	0.21	ug/L			07/21/14 14:52	1
1,4-Dichlorobenzene	**0.99**	J	1.0	0.28	ug/L			07/21/14 14:52	1
1,1-Dichloroethane	<0.25		1.0	0.25	ug/L			07/21/14 14:52	1
1,1-Dichloroethene	<0.11		1.0	0.11	ug/L			07/21/14 14:52	1
1,2-Dichloropropane	**1.2**		1.0	0.13	ug/L			07/21/14 14:52	1
Ethylbenzene	**2.9**		1.0	0.11	ug/L			07/21/14 14:52	1
Methylene Chloride	<1.0		5.0	1.0	ug/L			07/21/14 14:52	1
4-Methyl-2-pentanone (MIBK)	<1.0		10	1.0	ug/L			07/21/14 14:52	1
p-Isopropyltoluene	**0.42**	J	1.0	0.13	ug/L			07/21/14 14:52	1
Tetrachloroethene	<0.15		1.0	0.15	ug/L			07/21/14 14:52	1
Toluene	**0.61**	J	1.0	0.33	ug/L			07/21/14 14:52	1
1,2,4-Trichlorobenzene	<0.25		1.0	0.25	ug/L			07/21/14 14:52	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			07/21/14 14:52	1
Vinyl chloride	**0.79**	J	1.0	0.18	ug/L			07/21/14 14:52	1
Xylenes, Total	**3.5**		2.0	0.20	ug/L			07/21/14 14:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*70 - 130*		*07/21/14 14:52*	*1*
Dibromofluoromethane	*120*		*70 - 130*		*07/21/14 14:52*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*07/21/14 14:52*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3 & 4 Methylphenol	<1.3	*	10	1.3	ug/L		07/21/14 15:50	07/24/14 15:37	1
Acetophenone	<1.8	*	10	1.8	ug/L		07/21/14 15:50	07/24/14 15:37	1
Benzo[g,h,i]perylene	<2.0	*	10	2.0	ug/L		07/21/14 15:50	07/24/14 15:37	1
Dibenz(a,h)anthracene	<1.7	*	10	1.7	ug/L		07/21/14 15:50	07/24/14 15:37	1
Indeno[1,2,3-cd]pyrene	<1.8	*	10	1.8	ug/L		07/21/14 15:50	07/24/14 15:37	1
Naphthalene	<1.2	*	10	1.2	ug/L		07/21/14 15:50	07/24/14 15:37	1
Phenol	<1.5	*	10	1.5	ug/L		07/21/14 15:50	07/24/14 15:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*80*		*31 - 141*	*07/21/14 15:50*	*07/24/14 15:37*	*1*
2-Fluorobiphenyl	*70*		*38 - 130*	*07/21/14 15:50*	*07/24/14 15:37*	*1*
2-Fluorophenol (Surr)	*61*		*25 - 130*	*07/21/14 15:50*	*07/24/14 15:37*	*1*
Terphenyl-d14 (Surr)	*62*		*10 - 143*	*07/21/14 15:50*	*07/24/14 15:37*	*1*
Phenol-d5 (Surr)	*74*		*25 - 130*	*07/21/14 15:50*	*07/24/14 15:37*	*1*
Nitrobenzene-d5 (Surr)	*94*		*39 - 130*	*07/21/14 15:50*	*07/24/14 15:37*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	<0.021		0.049	0.021	ug/L		07/22/14 15:10	07/23/14 17:06	1

Client: Ashland Inc.
Project/Site: Ashland Brunswick SA GW Monitoring

TestAmerica Job ID: 680-103380-1

Client Sample ID: MW- 56D
Date Collected: 07/16/14 10:46
Date Received: 07/17/14 10:26

Lab Sample ID: 680-103380-2
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
delta-BHC	<0.021		0.049	0.021	ug/L		07/22/14 15:10	07/23/14 17:06	1
gamma-BHC (Lindane)	<0.018		0.049	0.018	ug/L		07/22/14 15:10	07/23/14 17:06	1
Heptachlor	<0.022		0.049	0.022	ug/L		07/22/14 15:10	07/23/14 17:06	1
Toxaphene, Technical	<0.50		4.9	0.50	ug/L		07/22/14 15:10	07/23/14 17:06	1
Toxaphene - Total	**2.1**	**J**	4.9	0.50	ug/L		07/22/14 15:10	07/23/14 17:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*51*		*10 - 130*	*07/22/14 15:10*	*07/23/14 17:06*	*1*
Tetrachloro-m-xylene	*92*		*39 - 130*	*07/22/14 15:10*	*07/23/14 17:06*	*1*

Method: 8315A - Carbonyl Compounds (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Formaldehyde	**24**	**J**	50	5.0	ug/L		07/18/14 09:02	07/21/14 10:36	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**2.8**		2.5	1.3	ug/L		07/18/14 10:06	07/23/14 13:48	1
Barium	**1100**		5.0	1.3	ug/L		07/18/14 10:06	07/23/14 13:48	1
Cobalt	**4.2**		0.50	0.15	ug/L		07/18/14 10:06	07/23/14 13:48	1
Chromium	<2.5		5.0	2.5	ug/L		07/18/14 10:06	07/23/14 13:48	1
Nickel	**3.0**	**J**	5.0	2.0	ug/L		07/18/14 10:06	07/23/14 13:48	1
Selenium	<1.0		2.5	1.0	ug/L		07/18/14 10:06	07/23/14 13:48	1
Vanadium	<3.8		10	3.8	ug/L		07/18/14 10:06	07/23/14 13:48	1
Zinc	<8.3		20	8.3	ug/L		07/18/14 10:06	07/23/14 13:48	1

Client Sample ID: MW- 11DD

Date Collected: 07/16/14 11:49
Date Received: 07/17/14 10:26

Lab Sample ID: 680-103380-3

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<25		130	25	ug/L			07/21/14 15:18	5
Benzene	**120**		5.0	1.3	ug/L			07/21/14 15:18	5
2-Butanone (MEK)	<5.0		50	5.0	ug/L			07/21/14 15:18	5
Carbon disulfide	<3.0		10	3.0	ug/L			07/21/14 15:18	5
Carbon tetrachloride	<2.5		5.0	2.5	ug/L			07/21/14 15:18	5
Chlorobenzene	**180**		5.0	1.3	ug/L			07/21/14 15:18	5
Chloroform	**540**		5.0	0.70	ug/L			07/21/14 15:18	5
cis-1,2-Dichloroethene	**1.1**	**J**	5.0	0.75	ug/L			07/21/14 15:18	5
1,2-Dichlorobenzene	**2.6**	**J**	5.0	1.1	ug/L			07/21/14 15:18	5
1,4-Dichlorobenzene	**3.9**	**J**	5.0	1.4	ug/L			07/21/14 15:18	5
1,1-Dichloroethane	<1.3		5.0	1.3	ug/L			07/21/14 15:18	5
1,1-Dichloroethene	<0.55		5.0	0.55	ug/L			07/21/14 15:18	5
1,2-Dichloropropane	<0.65		5.0	0.65	ug/L			07/21/14 15:18	5
Ethylbenzene	**8.1**		5.0	0.55	ug/L			07/21/14 15:18	5
Methylene Chloride	**200**		25	5.0	ug/L			07/21/14 15:18	5
4-Methyl-2-pentanone (MIBK)	<5.0		50	5.0	ug/L			07/21/14 15:18	5
p-Isopropyltoluene	**7.9**		5.0	0.65	ug/L			07/21/14 15:18	5
Tetrachloroethene	<0.75		5.0	0.75	ug/L			07/21/14 15:18	5
Toluene	**2.2**	**J**	5.0	1.7	ug/L			07/21/14 15:18	5
1,2,4-Trichlorobenzene	<1.3		5.0	1.3	ug/L			07/21/14 15:18	5
1,2,3-Trichloropropane	<2.1		5.0	2.1	ug/L			07/21/14 15:18	5
Vinyl chloride	<0.90		5.0	0.90	ug/L			07/21/14 15:18	5
Xylenes, Total	**32**		10	1.0	ug/L			07/21/14 15:18	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*70 - 130*		*07/21/14 15:18*	*5*
Dibromofluoromethane	*115*		*70 - 130*		*07/21/14 15:18*	*5*
Toluene-d8 (Surr)	*97*		*70 - 130*		*07/21/14 15:18*	*5*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3 & 4 Methylphenol	<1.3	*	9.8	1.3	ug/L		07/21/14 15:50	07/24/14 16:01	1
Acetophenone	<1.8	*	9.8	1.8	ug/L		07/21/14 15:50	07/24/14 16:01	1
Benzo[g,h,i]perylene	<2.0	*	9.8	2.0	ug/L		07/21/14 15:50	07/24/14 16:01	1
Dibenz(a,h)anthracene	<1.7	*	9.8	1.7	ug/L		07/21/14 15:50	07/24/14 16:01	1
Indeno[1,2,3-cd]pyrene	<1.8	*	9.8	1.8	ug/L		07/21/14 15:50	07/24/14 16:01	1
Naphthalene	<1.2	*	9.8	1.2	ug/L		07/21/14 15:50	07/24/14 16:01	1
Phenol	<1.5	*	9.8	1.5	ug/L		07/21/14 15:50	07/24/14 16:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*81*		*31 - 141*	*07/21/14 15:50*	*07/24/14 16:01*	*1*
2-Fluorobiphenyl	*70*		*38 - 130*	*07/21/14 15:50*	*07/24/14 16:01*	*1*
2-Fluorophenol (Surr)	*59*		*25 - 130*	*07/21/14 15:50*	*07/24/14 16:01*	*1*
Terphenyl-d14 (Surr)	*68*		*10 - 143*	*07/21/14 15:50*	*07/24/14 16:01*	*1*
Phenol-d5 (Surr)	*66*		*25 - 130*	*07/21/14 15:50*	*07/24/14 16:01*	*1*
Nitrobenzene-d5 (Surr)	*91*		*39 - 130*	*07/21/14 15:50*	*07/24/14 16:01*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	<0.021		0.047	0.021	ug/L		07/22/14 15:10	07/23/14 17:20	1

Client: Ashland Inc.
Project/Site: Ashland Brunswick SA GW Monitoring

TestAmerica Job ID: 680-103380-1

Client Sample ID: MW- 11DD
Date Collected: 07/16/14 11:49
Date Received: 07/17/14 10:26

Lab Sample ID: 680-103380-3
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
delta-BHC	<0.021		0.047	0.021	ug/L		07/22/14 15:10	07/23/14 17:20	1
gamma-BHC (Lindane)	<0.018		0.047	0.018	ug/L		07/22/14 15:10	07/23/14 17:20	1
Heptachlor	<0.022		0.047	0.022	ug/L		07/22/14 15:10	07/23/14 17:20	1
Toxaphene, Technical	<0.48		4.7	0.48	ug/L		07/22/14 15:10	07/23/14 17:20	1
Toxaphene - Total	**3.4**	**J p**	4.7	0.48	ug/L		07/22/14 15:10	07/23/14 17:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*63*		*10 - 130*	*07/22/14 15:10*	*07/23/14 17:20*	*1*
Tetrachloro-m-xylene	*89*		*39 - 130*	*07/22/14 15:10*	*07/23/14 17:20*	*1*

Method: 8315A - Carbonyl Compounds (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Formaldehyde	**17**	**J**	50	5.0	ug/L		07/18/14 09:02	07/21/14 10:47	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**3.1**		2.5	1.3	ug/L		07/18/14 10:06	07/23/14 13:55	1
Barium	**2000**		5.0	1.3	ug/L		07/18/14 10:06	07/23/14 13:55	1
Cobalt	**4.6**		0.50	0.15	ug/L		07/18/14 10:06	07/23/14 13:55	1
Chromium	<2.5		5.0	2.5	ug/L		07/18/14 10:06	07/23/14 13:55	1
Nickel	<2.0		5.0	2.0	ug/L		07/18/14 10:06	07/23/14 13:55	1
Selenium	<1.0		2.5	1.0	ug/L		07/18/14 10:06	07/23/14 13:55	1
Vanadium	<3.8		10	3.8	ug/L		07/18/14 10:06	07/23/14 13:55	1
Zinc	**11**	**J**	20	8.3	ug/L		07/18/14 10:06	07/23/14 13:55	1

Client Sample ID: Field Blank
Date Collected: 07/16/14 12:45
Date Received: 07/17/14 10:26

Lab Sample ID: 680-103380-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.0		25	5.0	ug/L			07/21/14 13:35	1
Benzene	<0.25		1.0	0.25	ug/L			07/21/14 13:35	1
2-Butanone (MEK)	<1.0		10	1.0	ug/L			07/21/14 13:35	1
Carbon disulfide	<0.60		2.0	0.60	ug/L			07/21/14 13:35	1
Carbon tetrachloride	<0.50		1.0	0.50	ug/L			07/21/14 13:35	1
Chlorobenzene	<0.25		1.0	0.25	ug/L			07/21/14 13:35	1
Chloroform	<0.14		1.0	0.14	ug/L			07/21/14 13:35	1
cis-1,2-Dichloroethene	<0.15		1.0	0.15	ug/L			07/21/14 13:35	1
1,2-Dichlorobenzene	<0.21		1.0	0.21	ug/L			07/21/14 13:35	1
1,4-Dichlorobenzene	<0.28		1.0	0.28	ug/L			07/21/14 13:35	1
1,1-Dichloroethane	<0.25		1.0	0.25	ug/L			07/21/14 13:35	1
1,1-Dichloroethene	<0.11		1.0	0.11	ug/L			07/21/14 13:35	1
1,2-Dichloropropane	<0.13		1.0	0.13	ug/L			07/21/14 13:35	1
Ethylbenzene	<0.11		1.0	0.11	ug/L			07/21/14 13:35	1
Methylene Chloride	<1.0		5.0	1.0	ug/L			07/21/14 13:35	1
4-Methyl-2-pentanone (MIBK)	<1.0		10	1.0	ug/L			07/21/14 13:35	1
p-Isopropyltoluene	<0.13		1.0	0.13	ug/L			07/21/14 13:35	1
Tetrachloroethene	<0.15		1.0	0.15	ug/L			07/21/14 13:35	1
Toluene	<0.33		1.0	0.33	ug/L			07/21/14 13:35	1
1,2,4-Trichlorobenzene	<0.25		1.0	0.25	ug/L			07/21/14 13:35	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			07/21/14 13:35	1
Vinyl chloride	<0.18		1.0	0.18	ug/L			07/21/14 13:35	1
Xylenes, Total	<0.20		2.0	0.20	ug/L			07/21/14 13:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*70 - 130*		*07/21/14 13:35*	*1*
Dibromofluoromethane	*122*		*70 - 130*		*07/21/14 13:35*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*07/21/14 13:35*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3 & 4 Methylphenol	<1.3	*	10	1.3	ug/L		07/21/14 15:50	07/24/14 16:25	1
Acetophenone	<1.8	*	10	1.8	ug/L		07/21/14 15:50	07/24/14 16:25	1
Benzo[g,h,i]perylene	<2.0	*	10	2.0	ug/L		07/21/14 15:50	07/24/14 16:25	1
Dibenz(a,h)anthracene	<1.7	*	10	1.7	ug/L		07/21/14 15:50	07/24/14 16:25	1
Indeno[1,2,3-cd]pyrene	<1.8	*	10	1.8	ug/L		07/21/14 15:50	07/24/14 16:25	1
Naphthalene	<1.2	*	10	1.2	ug/L		07/21/14 15:50	07/24/14 16:25	1
Phenol	<1.5	*	10	1.5	ug/L		07/21/14 15:50	07/24/14 16:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*77*		*31 - 141*	*07/21/14 15:50*	*07/24/14 16:25*	*1*
2-Fluorobiphenyl	*82*		*38 - 130*	*07/21/14 15:50*	*07/24/14 16:25*	*1*
2-Fluorophenol (Surr)	*73*		*25 - 130*	*07/21/14 15:50*	*07/24/14 16:25*	*1*
Terphenyl-d14 (Surr)	*96*		*10 - 143*	*07/21/14 15:50*	*07/24/14 16:25*	*1*
Phenol-d5 (Surr)	*86*		*25 - 130*	*07/21/14 15:50*	*07/24/14 16:25*	*1*
Nitrobenzene-d5 (Surr)	*97*		*39 - 130*	*07/21/14 15:50*	*07/24/14 16:25*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	<0.021		0.048	0.021	ug/L		07/22/14 15:10	07/23/14 17:34	1

Client: Ashland Inc.
Project/Site: Ashland Brunswick SA GW Monitoring

TestAmerica Job ID: 680-103380-1

Client Sample ID: Field Blank
Date Collected: 07/16/14 12:45
Date Received: 07/17/14 10:26

Lab Sample ID: 680-103380-4
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
delta-BHC	<0.021		0.048	0.021	ug/L		07/22/14 15:10	07/23/14 17:34	1
gamma-BHC (Lindane)	<0.018		0.048	0.018	ug/L		07/22/14 15:10	07/23/14 17:34	1
Heptachlor	<0.022		0.048	0.022	ug/L		07/22/14 15:10	07/23/14 17:34	1
Toxaphene, Technical	<0.49		4.8	0.49	ug/L		07/22/14 15:10	07/23/14 17:34	1
Toxaphene - Total	<0.49		4.8	0.49	ug/L		07/22/14 15:10	07/23/14 17:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*81*		*10 - 130*	*07/22/14 15:10*	*07/23/14 17:34*	*1*
Tetrachloro-m-xylene	*62*		*39 - 130*	*07/22/14 15:10*	*07/23/14 17:34*	*1*

Method: 8315A - Carbonyl Compounds (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Formaldehyde	<5.0		50	5.0	ug/L		07/18/14 09:02	07/21/14 10:59	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<1.3		2.5	1.3	ug/L		07/18/14 10:06	07/23/14 14:02	1
Barium	**6.9**		5.0	1.3	ug/L		07/18/14 10:06	07/23/14 14:02	1
Cobalt	<0.15		0.50	0.15	ug/L		07/18/14 10:06	07/23/14 14:02	1
Chromium	<2.5		5.0	2.5	ug/L		07/18/14 10:06	07/23/14 14:02	1
Nickel	<2.0		5.0	2.0	ug/L		07/18/14 10:06	07/23/14 14:02	1
Selenium	<1.0		2.5	1.0	ug/L		07/18/14 10:06	07/23/14 14:02	1
Vanadium	<3.8		10	3.8	ug/L		07/18/14 10:06	07/23/14 14:02	1
Zinc	**21**		20	8.3	ug/L		07/18/14 10:06	07/23/14 14:02	1

Client Sample ID: Equipment Blank

Lab Sample ID: 680-103380-5

Date Collected: 07/16/14 12:40

Matrix: Water

Date Received: 07/17/14 10:26

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.0		25	5.0	ug/L			07/21/14 14:01	1
Benzene	<0.25		1.0	0.25	ug/L			07/21/14 14:01	1
2-Butanone (MEK)	<1.0		10	1.0	ug/L			07/21/14 14:01	1
Carbon disulfide	<0.60		2.0	0.60	ug/L			07/21/14 14:01	1
Carbon tetrachloride	<0.50		1.0	0.50	ug/L			07/21/14 14:01	1
Chlorobenzene	<0.25		1.0	0.25	ug/L			07/21/14 14:01	1
Chloroform	<0.14		1.0	0.14	ug/L			07/21/14 14:01	1
cis-1,2-Dichloroethene	<0.15		1.0	0.15	ug/L			07/21/14 14:01	1
1,2-Dichlorobenzene	<0.21		1.0	0.21	ug/L			07/21/14 14:01	1
1,4-Dichlorobenzene	<0.28		1.0	0.28	ug/L			07/21/14 14:01	1
1,1-Dichloroethane	<0.25		1.0	0.25	ug/L			07/21/14 14:01	1
1,1-Dichloroethene	<0.11		1.0	0.11	ug/L			07/21/14 14:01	1
1,2-Dichloropropane	<0.13		1.0	0.13	ug/L			07/21/14 14:01	1
Ethylbenzene	<0.11		1.0	0.11	ug/L			07/21/14 14:01	1
Methylene Chloride	<1.0		5.0	1.0	ug/L			07/21/14 14:01	1
4-Methyl-2-pentanone (MIBK)	<1.0		10	1.0	ug/L			07/21/14 14:01	1
p-Isopropyltoluene	<0.13		1.0	0.13	ug/L			07/21/14 14:01	1
Tetrachloroethene	<0.15		1.0	0.15	ug/L			07/21/14 14:01	1
Toluene	<0.33		1.0	0.33	ug/L			07/21/14 14:01	1
1,2,4-Trichlorobenzene	<0.25		1.0	0.25	ug/L			07/21/14 14:01	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			07/21/14 14:01	1
Vinyl chloride	<0.18		1.0	0.18	ug/L			07/21/14 14:01	1
Xylenes, Total	<0.20		2.0	0.20	ug/L			07/21/14 14:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*70 - 130*		*07/21/14 14:01*	*1*
Dibromofluoromethane	*120*		*70 - 130*		*07/21/14 14:01*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*07/21/14 14:01*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3 & 4 Methylphenol	<1.4	*	11	1.4	ug/L		07/21/14 15:50	07/24/14 16:50	1
Acetophenone	<1.9	*	11	1.9	ug/L		07/21/14 15:50	07/24/14 16:50	1
Benzo[g,h,i]perylene	<2.1	*	11	2.1	ug/L		07/21/14 15:50	07/24/14 16:50	1
Dibenz(a,h)anthracene	<1.8	*	11	1.8	ug/L		07/21/14 15:50	07/24/14 16:50	1
Indeno[1,2,3-cd]pyrene	<1.9	*	11	1.9	ug/L		07/21/14 15:50	07/24/14 16:50	1
Naphthalene	<1.3	*	11	1.3	ug/L		07/21/14 15:50	07/24/14 16:50	1
Phenol	<1.6	*	11	1.6	ug/L		07/21/14 15:50	07/24/14 16:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*81*		*31 - 141*	*07/21/14 15:50*	*07/24/14 16:50*	*1*
2-Fluorobiphenyl	*79*		*38 - 130*	*07/21/14 15:50*	*07/24/14 16:50*	*1*
2-Fluorophenol (Surr)	*71*		*25 - 130*	*07/21/14 15:50*	*07/24/14 16:50*	*1*
Terphenyl-d14 (Surr)	*81*		*10 - 143*	*07/21/14 15:50*	*07/24/14 16:50*	*1*
Phenol-d5 (Surr)	*81*		*25 - 130*	*07/21/14 15:50*	*07/24/14 16:50*	*1*
Nitrobenzene-d5 (Surr)	*88*		*39 - 130*	*07/21/14 15:50*	*07/24/14 16:50*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	<0.022		0.049	0.022	ug/L		07/22/14 15:10	07/23/14 17:49	1

Client: Ashland Inc.
Project/Site: Ashland Brunswick SA GW Monitoring

TestAmerica Job ID: 680-103380-1

Client Sample ID: Equipment Blank
Date Collected: 07/16/14 12:40
Date Received: 07/17/14 10:26

Lab Sample ID: 680-103380-5
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
delta-BHC	<0.022		0.049	0.022	ug/L		07/22/14 15:10	07/23/14 17:49	1
gamma-BHC (Lindane)	<0.019		0.049	0.019	ug/L		07/22/14 15:10	07/23/14 17:49	1
Heptachlor	<0.022		0.049	0.022	ug/L		07/22/14 15:10	07/23/14 17:49	1
Toxaphene, Technical	<0.50		4.9	0.50	ug/L		07/22/14 15:10	07/23/14 17:49	1
Toxaphene - Total	<0.50		4.9	0.50	ug/L		07/22/14 15:10	07/23/14 17:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*78*		*10 - 130*	*07/22/14 15:10*	*07/23/14 17:49*	*1*
Tetrachloro-m-xylene	*61*		*39 - 130*	*07/22/14 15:10*	*07/23/14 17:49*	*1*

Method: 8315A - Carbonyl Compounds (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Formaldehyde	<5.0		50	5.0	ug/L		07/18/14 09:02	07/21/14 11:11	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<1.3		2.5	1.3	ug/L		07/18/14 10:06	07/23/14 14:10	1
Barium	**8.9**		5.0	1.3	ug/L		07/18/14 10:06	07/23/14 14:10	1
Cobalt	<0.15		0.50	0.15	ug/L		07/18/14 10:06	07/23/14 14:10	1
Chromium	<2.5		5.0	2.5	ug/L		07/18/14 10:06	07/23/14 14:10	1
Nickel	<2.0		5.0	2.0	ug/L		07/18/14 10:06	07/23/14 14:10	1
Selenium	<1.0		2.5	1.0	ug/L		07/18/14 10:06	07/23/14 14:10	1
Vanadium	<3.8		10	3.8	ug/L		07/18/14 10:06	07/23/14 14:10	1
Zinc	**18**	**J**	20	8.3	ug/L		07/18/14 10:06	07/23/14 14:10	1

Client: Ashland Inc.
Project/Site: Ashland Brunswick SA GW Monitoring

TestAmerica Job ID: 680-103380-1

Client Sample ID: Trip Blank #1
Date Collected: 07/16/14 00:00
Date Received: 07/17/14 10:26

Lab Sample ID: 680-103380-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.0		25	5.0	ug/L			07/21/14 13:10	1
Benzene	<0.25		1.0	0.25	ug/L			07/21/14 13:10	1
2-Butanone (MEK)	<1.0		10	1.0	ug/L			07/21/14 13:10	1
Carbon disulfide	<0.60		2.0	0.60	ug/L			07/21/14 13:10	1
Carbon tetrachloride	<0.50		1.0	0.50	ug/L			07/21/14 13:10	1
Chlorobenzene	<0.25		1.0	0.25	ug/L			07/21/14 13:10	1
Chloroform	<0.14		1.0	0.14	ug/L			07/21/14 13:10	1
cis-1,2-Dichloroethene	<0.15		1.0	0.15	ug/L			07/21/14 13:10	1
1,2-Dichlorobenzene	<0.21		1.0	0.21	ug/L			07/21/14 13:10	1
1,4-Dichlorobenzene	<0.28		1.0	0.28	ug/L			07/21/14 13:10	1
1,1-Dichloroethane	<0.25		1.0	0.25	ug/L			07/21/14 13:10	1
1,1-Dichloroethene	<0.11		1.0	0.11	ug/L			07/21/14 13:10	1
1,2-Dichloropropane	<0.13		1.0	0.13	ug/L			07/21/14 13:10	1
Ethylbenzene	<0.11		1.0	0.11	ug/L			07/21/14 13:10	1
Methylene Chloride	<1.0		5.0	1.0	ug/L			07/21/14 13:10	1
4-Methyl-2-pentanone (MIBK)	<1.0		10	1.0	ug/L			07/21/14 13:10	1
p-Isopropyltoluene	<0.13		1.0	0.13	ug/L			07/21/14 13:10	1
Tetrachloroethene	<0.15		1.0	0.15	ug/L			07/21/14 13:10	1
Toluene	<0.33		1.0	0.33	ug/L			07/21/14 13:10	1
1,2,4-Trichlorobenzene	<0.25		1.0	0.25	ug/L			07/21/14 13:10	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			07/21/14 13:10	1
Vinyl chloride	<0.18		1.0	0.18	ug/L			07/21/14 13:10	1
Xylenes, Total	<0.20		2.0	0.20	ug/L			07/21/14 13:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*70 - 130*		*07/21/14 13:10*	*1*
Dibromofluoromethane	*120*		*70 - 130*		*07/21/14 13:10*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*07/21/14 13:10*	*1*

Surrogate Summary

Client: Ashland Inc.
Project/Site: Ashland Brunswick SA GW Monitoring

TestAmerica Job ID: 680-103380-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)
680-103380-1	MW- 57D	98	123	96
680-103380-2	MW- 56D	96	120	97
680-103380-3	MW- 11DD	98	115	97
680-103380-4	Field Blank	96	122	97
680-103380-5	Equipment Blank	97	120	96
680-103380-6	Trip Blank #1	98	120	96
LCS 680-339987/5	Lab Control Sample	105	103	101
LCSD 680-339987/6	Lab Control Sample Dup	108	116	107
MB 680-339987/9	Method Blank	98	122	96

Surrogate Legend

BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	TPH	PHL	NBZ
Lab Sample ID	Client Sample ID	(31-141)	(38-130)	(25-130)	(10-143)	(25-130)	(39-130)
680-103380-1	MW- 57D	62	73	54	76	61	79
680-103380-2	MW- 56D	80	70	61	62	74	94
680-103380-3	MW- 11DD	81	70	59	68	66	91
680-103380-4	Field Blank	77	82	73	96	86	97
680-103380-5	Equipment Blank	81	79	71	81	81	88
LCS 680-340036/17-A	Lab Control Sample	48	41	34	52	18 X	44
LCSD 680-340036/18-A	Lab Control Sample Dup	73	72	69	80	69	84
MB 680-340036/16-A	Method Blank	40	40	26	51	19 X	46

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
TPH = Terphenyl-d14 (Surr)
PHL = Phenol-d5 (Surr)
NBZ = Nitrobenzene-d5 (Surr)

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		DCB1	TCX1
Lab Sample ID	Client Sample ID	(10-130)	(39-130)
680-103380-1	MW- 57D	70	79
680-103380-4	Field Blank	81	62
680-103380-5	Equipment Blank	78	61
LCS 680-340233/10-A	Lab Control Sample	68	54
LCS 680-340233/12-A	Lab Control Sample	81	66

Surrogate Summary

Client: Ashland Inc.
Project/Site: Ashland Brunswick SA GW Monitoring

TestAmerica Job ID: 680-103380-1

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
		DCB1	TCX1										
Lab Sample ID	Client Sample ID	(10-130)	(39-130)										
LCSD 680-340233/11-A	Lab Control Sample Dup	76	66										
LCSD 680-340233/13-A	Lab Control Sample Dup	83	63										
MB 680-340233/9-A	Method Blank	79	66										

Surrogate Legend

DCB = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
		DCB1	TCX2										
Lab Sample ID	Client Sample ID	(10-130)	(39-130)										
680-103380-2	MW- 56D	51	92										
680-103380-3	MW- 11DD	63	89										

Surrogate Legend

DCB = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-339987/9
Matrix: Water
Analysis Batch: 339987

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.0		25	5.0	ug/L			07/21/14 11:55	1
Benzene	<0.25		1.0	0.25	ug/L			07/21/14 11:55	1
2-Butanone (MEK)	<1.0		10	1.0	ug/L			07/21/14 11:55	1
Carbon disulfide	<0.60		2.0	0.60	ug/L			07/21/14 11:55	1
Carbon tetrachloride	<0.50		1.0	0.50	ug/L			07/21/14 11:55	1
Chlorobenzene	<0.25		1.0	0.25	ug/L			07/21/14 11:55	1
Chloroform	<0.14		1.0	0.14	ug/L			07/21/14 11:55	1
cis-1,2-Dichloroethene	<0.15		1.0	0.15	ug/L			07/21/14 11:55	1
1,2-Dichlorobenzene	<0.21		1.0	0.21	ug/L			07/21/14 11:55	1
1,4-Dichlorobenzene	<0.28		1.0	0.28	ug/L			07/21/14 11:55	1
1,1-Dichloroethane	<0.25		1.0	0.25	ug/L			07/21/14 11:55	1
1,1-Dichloroethene	<0.11		1.0	0.11	ug/L			07/21/14 11:55	1
1,2-Dichloropropane	<0.13		1.0	0.13	ug/L			07/21/14 11:55	1
Ethylbenzene	<0.11		1.0	0.11	ug/L			07/21/14 11:55	1
Methylene Chloride	<1.0		5.0	1.0	ug/L			07/21/14 11:55	1
4-Methyl-2-pentanone (MIBK)	<1.0		10	1.0	ug/L			07/21/14 11:55	1
p-Isopropyltoluene	<0.13		1.0	0.13	ug/L			07/21/14 11:55	1
Tetrachloroethene	<0.15		1.0	0.15	ug/L			07/21/14 11:55	1
Toluene	<0.33		1.0	0.33	ug/L			07/21/14 11:55	1
1,2,4-Trichlorobenzene	<0.25		1.0	0.25	ug/L			07/21/14 11:55	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			07/21/14 11:55	1
Vinyl chloride	<0.18		1.0	0.18	ug/L			07/21/14 11:55	1
Xylenes, Total	<0.20		2.0	0.20	ug/L			07/21/14 11:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*70 - 130*		*07/21/14 11:55*	*1*
Dibromofluoromethane	*122*		*70 - 130*		*07/21/14 11:55*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*07/21/14 11:55*	*1*

Lab Sample ID: LCS 680-339987/5
Matrix: Water
Analysis Batch: 339987

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	100	95.3		ug/L		95	39 - 162
Benzene	50.0	52.2		ug/L		104	74 - 123
2-Butanone (MEK)	100	105		ug/L		105	55 - 142
Carbon disulfide	50.0	44.3		ug/L		89	63 - 142
Carbon tetrachloride	50.0	48.9		ug/L		98	70 - 131
Chlorobenzene	50.0	51.8		ug/L		104	79 - 120
Chloroform	50.0	49.2		ug/L		98	76 - 128
cis-1,2-Dichloroethene	50.0	48.0		ug/L		96	78 - 127
1,2-Dichlorobenzene	50.0	52.3		ug/L		105	77 - 124
1,4-Dichlorobenzene	50.0	51.6		ug/L		103	76 - 124
1,1-Dichloroethane	50.0	48.6		ug/L		97	69 - 132
1,1-Dichloroethene	50.0	44.3		ug/L		89	73 - 134
1,2-Dichloropropane	50.0	49.4		ug/L		99	71 - 126
Ethylbenzene	50.0	50.7		ug/L		101	78 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-339987/5
Matrix: Water
Analysis Batch: 339987

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Methylene Chloride			50.0	47.3		ug/L		95	79 - 124		
4-Methyl-2-pentanone (MIBK)			100	105		ug/L		105	51 - 143		
p-Isopropyltoluene			50.0	49.8		ug/L		100	69 - 129		
Tetrachloroethene			50.0	48.0		ug/L		96	77 - 128		
Toluene			50.0	49.8		ug/L		100	77 - 125		
1,2,4-Trichlorobenzene			50.0	51.3		ug/L		103	67 - 134		
1,2,3-Trichloropropane			50.0	53.1		ug/L		106	74 - 126		
Vinyl chloride			50.0	36.9		ug/L		74	58 - 141		
Xylenes, Total			150	155		ug/L		103	80 - 124		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*105*		*70 - 130*
Dibromofluoromethane	*103*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 680-339987/6
Matrix: Water
Analysis Batch: 339987

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone			100	113		ug/L		113	39 - 162	17	50
Benzene			50.0	57.4		ug/L		115	74 - 123	9	30
2-Butanone (MEK)			100	111		ug/L		111	55 - 142	5	30
Carbon disulfide			50.0	49.7		ug/L		99	63 - 142	12	30
Carbon tetrachloride			50.0	53.5		ug/L		107	70 - 131	9	30
Chlorobenzene			50.0	56.0		ug/L		112	79 - 120	8	30
Chloroform			50.0	58.2		ug/L		116	76 - 128	17	30
cis-1,2-Dichloroethene			50.0	58.6		ug/L		117	78 - 127	20	30
1,2-Dichlorobenzene			50.0	56.1		ug/L		112	77 - 124	7	30
1,4-Dichlorobenzene			50.0	56.9		ug/L		114	76 - 124	10	30
1,1-Dichloroethane			50.0	53.5		ug/L		107	69 - 132	10	30
1,1-Dichloroethene			50.0	51.4		ug/L		103	73 - 134	15	30
1,2-Dichloropropane			50.0	52.2		ug/L		104	71 - 126	5	30
Ethylbenzene			50.0	54.7		ug/L		109	78 - 125	8	30
Methylene Chloride			50.0	55.2		ug/L		110	79 - 124	15	30
4-Methyl-2-pentanone (MIBK)			100	106		ug/L		106	51 - 143	0	30
p-Isopropyltoluene			50.0	53.6		ug/L		107	69 - 129	7	50
Tetrachloroethene			50.0	52.1		ug/L		104	77 - 128	8	30
Toluene			50.0	55.7		ug/L		111	77 - 125	11	30
1,2,4-Trichlorobenzene			50.0	55.4		ug/L		111	67 - 134	8	30
1,2,3-Trichloropropane			50.0	55.4		ug/L		111	74 - 126	4	30
Vinyl chloride			50.0	49.2		ug/L		98	58 - 141	29	30
Xylenes, Total			150	168		ug/L		112	80 - 124	8	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*108*		*70 - 130*
Dibromofluoromethane	*116*		*70 - 130*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-339987/6
Matrix: Water
Analysis Batch: 339987

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Toluene-d8 (Surr)	107		70 - 130

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-340036/16-A
Matrix: Water
Analysis Batch: 340693

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 340036

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3 & 4 Methylphenol	<1.3		10	1.3	ug/L		07/21/14 15:50	07/24/14 13:26	1
Acetophenone	<1.8		10	1.8	ug/L		07/21/14 15:50	07/24/14 13:26	1
Benzo[g,h,i]perylene	<2.0		10	2.0	ug/L		07/21/14 15:50	07/24/14 13:26	1
Dibenz(a,h)anthracene	<1.7		10	1.7	ug/L		07/21/14 15:50	07/24/14 13:26	1
Indeno[1,2,3-cd]pyrene	<1.8		10	1.8	ug/L		07/21/14 15:50	07/24/14 13:26	1
Naphthalene	<1.2		10	1.2	ug/L		07/21/14 15:50	07/24/14 13:26	1
Phenol	<1.5		10	1.5	ug/L		07/21/14 15:50	07/24/14 13:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	40		31 - 141	07/21/14 15:50	07/24/14 13:26	1
2-Fluorobiphenyl	40		38 - 130	07/21/14 15:50	07/24/14 13:26	1
2-Fluorophenol (Surr)	26		25 - 130	07/21/14 15:50	07/24/14 13:26	1
Terphenyl-d14 (Surr)	51		10 - 143	07/21/14 15:50	07/24/14 13:26	1
Phenol-d5 (Surr)	19	X	25 - 130	07/21/14 15:50	07/24/14 13:26	1
Nitrobenzene-d5 (Surr)	46		39 - 130	07/21/14 15:50	07/24/14 13:26	1

Lab Sample ID: LCS 680-340036/17-A
Matrix: Water
Analysis Batch: 341112

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 340036

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
3 & 4 Methylphenol	100	31.8	*	ug/L		32	41 - 105
Acetophenone	100	44.8		ug/L		45	40 - 103
Benzo[g,h,i]perylene	100	45.2		ug/L		45	42 - 114
Dibenz(a,h)anthracene	100	48.1		ug/L		48	48 - 110
Indeno[1,2,3-cd]pyrene	100	43.9		ug/L		44	34 - 115
Naphthalene	100	35.9		ug/L		36	29 - 91
Phenol	100	29.2	*	ug/L		29	34 - 97

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	48		31 - 141
2-Fluorobiphenyl	41		38 - 130
2-Fluorophenol (Surr)	34		25 - 130
Terphenyl-d14 (Surr)	52		10 - 143
Phenol-d5 (Surr)	18	X	25 - 130
Nitrobenzene-d5 (Surr)	44		39 - 130

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-340036/18-A
Matrix: Water
Analysis Batch: 340693

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 340036

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
3 & 4 Methylphenol	100	70.0	*	ug/L		70	41 - 105	75	50
Acetophenone	100	81.1	*	ug/L		81	40 - 103	58	30
Benzo[g,h,i]perylene	100	77.1	*	ug/L		77	42 - 114	52	50
Dibenz(a,h)anthracene	100	81.7	*	ug/L		82	48 - 110	52	40
Indeno[1,2,3-cd]pyrene	100	76.7	*	ug/L		77	34 - 115	54	40
Naphthalene	100	67.9	*	ug/L		68	29 - 91	62	40
Phenol	100	61.4	*	ug/L		61	34 - 97	71	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*73*		*31 - 141*
2-Fluorobiphenyl	*72*		*38 - 130*
2-Fluorophenol (Surr)	*69*		*25 - 130*
Terphenyl-d14 (Surr)	*80*		*10 - 143*
Phenol-d5 (Surr)	*69*		*25 - 130*
Nitrobenzene-d5 (Surr)	*84*		*39 - 130*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Lab Sample ID: MB 680-340233/9-A
Matrix: Water
Analysis Batch: 340495

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 340233

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	<0.022		0.050	0.022	ug/L		07/22/14 15:10	07/23/14 15:39	1
delta-BHC	<0.022		0.050	0.022	ug/L		07/22/14 15:10	07/23/14 15:39	1
gamma-BHC (Lindane)	<0.019		0.050	0.019	ug/L		07/22/14 15:10	07/23/14 15:39	1
Heptachlor	<0.023		0.050	0.023	ug/L		07/22/14 15:10	07/23/14 15:39	1
Toxaphene, Technical	<0.51		5.0	0.51	ug/L		07/22/14 15:10	07/23/14 15:39	1
Toxaphene - Total	<0.51		5.0	0.51	ug/L		07/22/14 15:10	07/23/14 15:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*79*		*10 - 130*	*07/22/14 15:10*	*07/23/14 15:39*	*1*
Tetrachloro-m-xylene	*66*		*39 - 130*	*07/22/14 15:10*	*07/23/14 15:39*	*1*

Lab Sample ID: LCS 680-340233/10-A
Matrix: Water
Analysis Batch: 340495

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 340233

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
alpha-BHC	0.200	0.143		ug/L		72	45 - 130
delta-BHC	0.200	0.168		ug/L		84	47 - 140
gamma-BHC (Lindane)	0.200	0.145		ug/L		73	47 - 130
Heptachlor	0.200	0.145		ug/L		72	49 - 130

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Lab Sample ID: LCS 680-340233/10-A
Matrix: Water
Analysis Batch: 340495

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 340233

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	68		10 - 130
Tetrachloro-m-xylene	54		39 - 130

Lab Sample ID: LCS 680-340233/12-A
Matrix: Water
Analysis Batch: 340495

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 340233

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Toxaphene, Technical			16.0	14.4		ug/L		90	22 - 145		
Toxaphene - Total			16.0	17.2		ug/L		108	35 - 138		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	81		10 - 130
Tetrachloro-m-xylene	66		39 - 130

Lab Sample ID: LCSD 680-340233/11-A
Matrix: Water
Analysis Batch: 340495

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 340233

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
alpha-BHC			0.200	0.174		ug/L		87	45 - 130	19	30
delta-BHC			0.200	0.219		ug/L		110	47 - 140	27	30
gamma-BHC (Lindane)			0.200	0.180		ug/L		90	47 - 130	21	30
Heptachlor			0.200	0.181		ug/L		91	49 - 130	23	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl	76		10 - 130
Tetrachloro-m-xylene	66		39 - 130

Lab Sample ID: LCSD 680-340233/13-A
Matrix: Water
Analysis Batch: 340495

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 340233

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toxaphene, Technical			16.0	16.0		ug/L		100	22 - 145	11	50
Toxaphene - Total			16.0	18.0		ug/L		112	35 - 138	4	50

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl	83		10 - 130
Tetrachloro-m-xylene	63		39 - 130

Method: 8315A - Carbonyl Compounds (HPLC)

Lab Sample ID: MB 640-110345/1-A
Matrix: Water
Analysis Batch: 110383

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 110345

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Formaldehyde	<5.0		50	5.0	ug/L		07/18/14 09:02	07/21/14 08:49	1

Lab Sample ID: LCS 640-110345/2-A
Matrix: Water
Analysis Batch: 110383

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 110345

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Formaldehyde	150	148		ug/L		99	73 - 133

Lab Sample ID: LCSD 640-110345/3-A
Matrix: Water
Analysis Batch: 110383

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 110345

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Formaldehyde	150	152		ug/L		101	73 - 133	2	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 680-339693/1-A
Matrix: Water
Analysis Batch: 340599

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 339693

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<1.3		2.5	1.3	ug/L		07/18/14 10:06	07/23/14 12:06	1
Barium	<1.3		5.0	1.3	ug/L		07/18/14 10:06	07/23/14 12:06	1
Cobalt	<0.15		0.50	0.15	ug/L		07/18/14 10:06	07/23/14 12:06	1
Chromium	<2.5		5.0	2.5	ug/L		07/18/14 10:06	07/23/14 12:06	1
Nickel	<2.0		5.0	2.0	ug/L		07/18/14 10:06	07/23/14 12:06	1
Selenium	<1.0		2.5	1.0	ug/L		07/18/14 10:06	07/23/14 12:06	1
Vanadium	<3.8		10	3.8	ug/L		07/18/14 10:06	07/23/14 12:06	1
Zinc	<8.3		20	8.3	ug/L		07/18/14 10:06	07/23/14 12:06	1

Lab Sample ID: LCS 680-339693/2-A
Matrix: Water
Analysis Batch: 340599

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 339693

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	100	104		ug/L		104	75 - 125
Barium	100	107		ug/L		107	75 - 125
Cobalt	50.0	50.5		ug/L		101	75 - 125
Chromium	100	103		ug/L		103	75 - 125
Nickel	100	104		ug/L		104	75 - 125
Selenium	100	94.9		ug/L		95	75 - 125
Vanadium	100	99.7		ug/L		100	75 - 125
Zinc	100	102		ug/L		102	75 - 125

GC/MS VOA

Analysis Batch: 339987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-103380-1	MW- 57D	Total/NA	Water	8260B	
680-103380-2	MW- 56D	Total/NA	Water	8260B	
680-103380-3	MW- 11DD	Total/NA	Water	8260B	
680-103380-4	Field Blank	Total/NA	Water	8260B	
680-103380-5	Equipment Blank	Total/NA	Water	8260B	
680-103380-6	Trip Blank #1	Total/NA	Water	8260B	
LCS 680-339987/5	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-339987/6	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-339987/9	Method Blank	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 340036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-103380-1	MW- 57D	Total/NA	Water	3520C	
680-103380-2	MW- 56D	Total/NA	Water	3520C	
680-103380-3	MW- 11DD	Total/NA	Water	3520C	
680-103380-4	Field Blank	Total/NA	Water	3520C	
680-103380-5	Equipment Blank	Total/NA	Water	3520C	
LCS 680-340036/17-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 680-340036/18-A	Lab Control Sample Dup	Total/NA	Water	3520C	
MB 680-340036/16-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 340693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-103380-1	MW- 57D	Total/NA	Water	8270D	340036
680-103380-2	MW- 56D	Total/NA	Water	8270D	340036
680-103380-3	MW- 11DD	Total/NA	Water	8270D	340036
680-103380-4	Field Blank	Total/NA	Water	8270D	340036
680-103380-5	Equipment Blank	Total/NA	Water	8270D	340036
LCSD 680-340036/18-A	Lab Control Sample Dup	Total/NA	Water	8270D	340036
MB 680-340036/16-A	Method Blank	Total/NA	Water	8270D	340036

Analysis Batch: 341112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-340036/17-A	Lab Control Sample	Total/NA	Water	8270D	340036

GC Semi VOA

Prep Batch: 340233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-103380-1	MW- 57D	Total/NA	Water	3520C	
680-103380-2	MW- 56D	Total/NA	Water	3520C	
680-103380-3	MW- 11DD	Total/NA	Water	3520C	
680-103380-4	Field Blank	Total/NA	Water	3520C	
680-103380-5	Equipment Blank	Total/NA	Water	3520C	
LCS 680-340233/10-A	Lab Control Sample	Total/NA	Water	3520C	
LCS 680-340233/12-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 680-340233/11-A	Lab Control Sample Dup	Total/NA	Water	3520C	
LCSD 680-340233/13-A	Lab Control Sample Dup	Total/NA	Water	3520C	

GC Semi VOA (Continued)

Prep Batch: 340233 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-340233/9-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 340495

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-103380-1	MW- 57D	Total/NA	Water	8081B/8082A	340233
680-103380-2	MW- 56D	Total/NA	Water	8081B/8082A	340233
680-103380-3	MW- 11DD	Total/NA	Water	8081B/8082A	340233
680-103380-4	Field Blank	Total/NA	Water	8081B/8082A	340233
680-103380-5	Equipment Blank	Total/NA	Water	8081B/8082A	340233
LCS 680-340233/10-A	Lab Control Sample	Total/NA	Water	8081B/8082A	340233
LCS 680-340233/12-A	Lab Control Sample	Total/NA	Water	8081B/8082A	340233
LCSD 680-340233/11-A	Lab Control Sample Dup	Total/NA	Water	8081B/8082A	340233
LCSD 680-340233/13-A	Lab Control Sample Dup	Total/NA	Water	8081B/8082A	340233
MB 680-340233/9-A	Method Blank	Total/NA	Water	8081B/8082A	340233

HPLC/IC

Prep Batch: 110345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-103380-1	MW- 57D	Total/NA	Water	8315_W_Prep	
680-103380-2	MW- 56D	Total/NA	Water	8315_W_Prep	
680-103380-3	MW- 11DD	Total/NA	Water	8315_W_Prep	
680-103380-4	Field Blank	Total/NA	Water	8315_W_Prep	
680-103380-5	Equipment Blank	Total/NA	Water	8315_W_Prep	
LCS 640-110345/2-A	Lab Control Sample	Total/NA	Water	8315_W_Prep	
LCSD 640-110345/3-A	Lab Control Sample Dup	Total/NA	Water	8315_W_Prep	
MB 640-110345/1-A	Method Blank	Total/NA	Water	8315_W_Prep	

Analysis Batch: 110383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-103380-1	MW- 57D	Total/NA	Water	8315A	110345
680-103380-2	MW- 56D	Total/NA	Water	8315A	110345
680-103380-3	MW- 11DD	Total/NA	Water	8315A	110345
680-103380-4	Field Blank	Total/NA	Water	8315A	110345
680-103380-5	Equipment Blank	Total/NA	Water	8315A	110345
LCS 640-110345/2-A	Lab Control Sample	Total/NA	Water	8315A	110345
LCSD 640-110345/3-A	Lab Control Sample Dup	Total/NA	Water	8315A	110345
MB 640-110345/1-A	Method Blank	Total/NA	Water	8315A	110345

Metals

Prep Batch: 339693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-103380-1	MW- 57D	Total Recoverable	Water	3005A	
680-103380-2	MW- 56D	Total Recoverable	Water	3005A	
680-103380-3	MW- 11DD	Total Recoverable	Water	3005A	
680-103380-4	Field Blank	Total Recoverable	Water	3005A	
680-103380-5	Equipment Blank	Total Recoverable	Water	3005A	
LCS 680-339693/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 680-339693/1-A	Method Blank	Total Recoverable	Water	3005A	

Metals (Continued)

Analysis Batch: 340599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-103380-1	MW- 57D	Total Recoverable	Water	6020A	339693
680-103380-2	MW- 56D	Total Recoverable	Water	6020A	339693
680-103380-3	MW- 11DD	Total Recoverable	Water	6020A	339693
680-103380-4	Field Blank	Total Recoverable	Water	6020A	339693
680-103380-5	Equipment Blank	Total Recoverable	Water	6020A	339693
LCS 680-339693/2-A	Lab Control Sample	Total Recoverable	Water	6020A	339693
MB 680-339693/1-A	Method Blank	Total Recoverable	Water	6020A	339693

Lab Chronicle

Client: Ashland Inc.
Project/Site: Ashland Brunswick SA GW Monitoring

TestAmerica Job ID: 680-103380-1

Client Sample ID: MW- 57D

Lab Sample ID: 680-103380-1

Date Collected: 07/16/14 09:57

Matrix: Water

Date Received: 07/17/14 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	339987	07/21/14 14:27	MMT	TAL SAV
Total/NA	Prep	3520C			239.7 mL	0.5 mL	340036	07/21/14 15:50	RBS	TAL SAV
Total/NA	Analysis	8270D		1	239.7 mL	0.5 mL	340693	07/24/14 15:11	RAM	TAL SAV
Total/NA	Prep	3520C			129.2 mL	2.5 mL	340233	07/22/14 15:10	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	129.2 mL	2.5 mL	340495	07/23/14 16:51	JCK	TAL SAV
Total/NA	Prep	8315_W_Prep			100 mL	4.0 mL	110345	07/18/14 09:02	DNS	TAL TAL
Total/NA	Analysis	8315A		1	100 mL	4.0 mL	110383	07/21/14 10:24	DNS	TAL TAL
Total Recoverable	Prep	3005A			50 mL	250 mL	339693	07/18/14 10:06	BJB	TAL SAV
Total Recoverable	Analysis	6020A		1	50 mL	250 mL	340599	07/23/14 13:40	BWR	TAL SAV

Client Sample ID: MW- 56D

Lab Sample ID: 680-103380-2

Date Collected: 07/16/14 10:46

Matrix: Water

Date Received: 07/17/14 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	339987	07/21/14 14:52	MMT	TAL SAV
Total/NA	Prep	3520C			249.9 mL	0.5 mL	340036	07/21/14 15:50	RBS	TAL SAV
Total/NA	Analysis	8270D		1	249.9 mL	0.5 mL	340693	07/24/14 15:37	RAM	TAL SAV
Total/NA	Prep	3520C			128.7 mL	2.5 mL	340233	07/22/14 15:10	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	128.7 mL	2.5 mL	340495	07/23/14 17:06	JCK	TAL SAV
Total/NA	Prep	8315_W_Prep			100 mL	4.0 mL	110345	07/18/14 09:02	DNS	TAL TAL
Total/NA	Analysis	8315A		1	100 mL	4.0 mL	110383	07/21/14 10:36	DNS	TAL TAL
Total Recoverable	Prep	3005A			50 mL	250 mL	339693	07/18/14 10:06	BJB	TAL SAV
Total Recoverable	Analysis	6020A		1	50 mL	250 mL	340599	07/23/14 13:48	BWR	TAL SAV

Client Sample ID: MW- 11DD

Lab Sample ID: 680-103380-3

Date Collected: 07/16/14 11:49

Matrix: Water

Date Received: 07/17/14 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	5 mL	5 mL	339987	07/21/14 15:18	MMT	TAL SAV
Total/NA	Prep	3520C			255.8 mL	0.5 mL	340036	07/21/14 15:50	RBS	TAL SAV
Total/NA	Analysis	8270D		1	255.8 mL	0.5 mL	340693	07/24/14 16:01	RAM	TAL SAV
Total/NA	Prep	3520C			131.6 mL	2.5 mL	340233	07/22/14 15:10	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	131.6 mL	2.5 mL	340495	07/23/14 17:20	JCK	TAL SAV
Total/NA	Prep	8315_W_Prep			100 mL	4.0 mL	110345	07/18/14 09:02	DNS	TAL TAL
Total/NA	Analysis	8315A		1	100 mL	4.0 mL	110383	07/21/14 10:47	DNS	TAL TAL
Total Recoverable	Prep	3005A			50 mL	250 mL	339693	07/18/14 10:06	BJB	TAL SAV
Total Recoverable	Analysis	6020A		1	50 mL	250 mL	340599	07/23/14 13:55	BWR	TAL SAV

Lab Chronicle

Client: Ashland Inc.
Project/Site: Ashland Brunswick SA GW Monitoring

TestAmerica Job ID: 680-103380-1

Client Sample ID: Field Blank

Lab Sample ID: 680-103380-4

Date Collected: 07/16/14 12:45
Matrix: Water
Date Received: 07/17/14 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	339987	07/21/14 13:35	MMT	TAL SAV
Total/NA	Prep	3520C			247.7 mL	0.5 mL	340036	07/21/14 15:50	RBS	TAL SAV
Total/NA	Analysis	8270D		1	247.7 mL	0.5 mL	340693	07/24/14 16:25	RAM	TAL SAV
Total/NA	Prep	3520C			130.9 mL	2.5 mL	340233	07/22/14 15:10	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	130.9 mL	2.5 mL	340495	07/23/14 17:34	JCK	TAL SAV
Total/NA	Prep	8315_W_Prep			100 mL	4.0 mL	110345	07/18/14 09:02	DNS	TAL TAL
Total/NA	Analysis	8315A		1	100 mL	4.0 mL	110383	07/21/14 10:59	DNS	TAL TAL
Total Recoverable	Prep	3005A			50 mL	250 mL	339693	07/18/14 10:06	BJB	TAL SAV
Total Recoverable	Analysis	6020A		1	50 mL	250 mL	340599	07/23/14 14:02	BWR	TAL SAV

Client Sample ID: Equipment Blank

Lab Sample ID: 680-103380-5

Date Collected: 07/16/14 12:40
Matrix: Water
Date Received: 07/17/14 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	339987	07/21/14 14:01	MMT	TAL SAV
Total/NA	Prep	3520C			234.5 mL	0.5 mL	340036	07/21/14 15:50	RBS	TAL SAV
Total/NA	Analysis	8270D		1	234.5 mL	0.5 mL	340693	07/24/14 16:50	RAM	TAL SAV
Total/NA	Prep	3520C			127.8 mL	2.5 mL	340233	07/22/14 15:10	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	127.8 mL	2.5 mL	340495	07/23/14 17:49	JCK	TAL SAV
Total/NA	Prep	8315_W_Prep			100 mL	4.0 mL	110345	07/18/14 09:02	DNS	TAL TAL
Total/NA	Analysis	8315A		1	100 mL	4.0 mL	110383	07/21/14 11:11	DNS	TAL TAL
Total Recoverable	Prep	3005A			50 mL	250 mL	339693	07/18/14 10:06	BJB	TAL SAV
Total Recoverable	Analysis	6020A		1	50 mL	250 mL	340599	07/23/14 14:10	BWR	TAL SAV

Client Sample ID: Trip Blank #1

Lab Sample ID: 680-103380-6

Date Collected: 07/16/14 00:00
Matrix: Water
Date Received: 07/17/14 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	339987	07/21/14 13:10	MMT	TAL SAV

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

TAL TAL = TestAmerica Tallahassee, 2846 Industrial Plaza Drive, Tallahassee, FL 32301, TEL (850)878-3994

Savannah
5102 LaRoche Avenue

Savannah, GA 31404
phone 912.354.7858 fax 912.352.0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Jon Alix	Site Contact: Tim Hassett	Date: 7/16/14	COC No:
Hercules, Inc.	Tel/Fax: 704-543-3925	Lab Contact: Kathy Smith	Carrier: Fed Ex	1 of 1 COCs

Analysis Turnaround Time
Calendar (C) or Work Days (W) 14
TAT if different from Below _____
[X] 2 weeks
[ ] 1 week
[ ] 2 days
[ ] 1 day

Project Name: Semi-Annual GW Monitoring
Site: Former Hercules Brunswick Facility
P O #

Job No.

SDG No.

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	8260B	8081B - Pest - Technical toxaphene, total area toxaphene (chlorinated camphene); alpha BHC, delta BHC, gamma BHC (lindane), heptachlor	6020A Select metals	8270 - Select Semivolatiles - Acetophenone, phenol, 3,&4 methylphenol, naphthalene, benzo(g,h,i)perylene, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene	8315A Form	Sample Specific Notes:
MW-57D	7/16/14	9:57	G	W	10	N	3	2	1	2	2	
MW-56D	7/16/14	10:46	G	W	10	N	3	2	1	2	2	
MW-11DD	7/16/14	11:49	G	W	10	N	3	2	1	2	2	

680-103380 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other 1

Possible Hazard Identification
[ ] Non-Hazard [ ] Flammable [ ] Skin Irritant Poison B [ ] Unknown [X]

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
[ ] Return To Client [X] Disposal By Lab [ ] Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Note for TA - Tallahassee: Contact TA - Savannah re: 8315A FORM samples

3.0 °C 4.0 °C 3.8 °C

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Alex Harrison	Antea Group	7/16/14			7/17/14 10:26
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by: 680-103380	Company:	Date/Time:

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7/29/2014

Login Sample Receipt Checklist

Client: Ashland Inc.

Job Number: 680-103380-1

Login Number: 103380

List Source: TestAmerica Savannah

List Number: 1

Creator: Kicklighter, Marilyn D

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	False	Field Blank and Equipment Blank not listed on the COC
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	One container received broken for sample -1
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Ashland Inc.

Job Number: 680-103380-1

Login Number: 103380
List Number: 2
Creator: Gaskin, Jeremy P

List Source: TestAmerica Tallahassee
List Creation: 07/17/14 04:24 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	False	

Certification Summary

Client: Ashland Inc. TestAmerica Job ID: 680-103380-1
Project/Site: Ashland Brunswick SA GW Monitoring

Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
	AFCEE		SAVLAB	
A2LA	DoD ELAP		399.01	02-28-15
A2LA	ISO/IEC 17025		399.01	02-28-15
Alabama	State Program	4	41450	06-30-15
Arkansas DEQ	State Program	6	88-0692	01-31-15
California	NELAP	9	3217CA	07-31-14 *
Colorado	State Program	8	N/A	12-31-14
Connecticut	State Program	1	PH-0161	03-31-15
Florida	NELAP	4	E87052	06-30-15
GA Dept. of Agriculture	State Program	4	N/A	06-30-14 *
Georgia	State Program	4	N/A	06-30-15
Georgia	State Program	4	803	06-30-15
Guam	State Program	9	09-005r	04-16-15
Hawaii	State Program	9	N/A	06-30-15
Illinois	NELAP	5	200022	11-30-14
Indiana	State Program	5	N/A	06-30-15
Iowa	State Program	7	353	07-01-15
Kentucky (DW)	State Program	4	90084	12-31-14
Kentucky (UST)	State Program	4	18	06-30-15
Louisiana	NELAP	6	30690	06-30-14 *
Louisiana (DW)	NELAP	6	LA140023	12-31-14
Maine	State Program	1	GA00006	08-16-14 *
Maryland	State Program	3	250	12-31-14
Massachusetts	State Program	1	M-GA006	06-30-15
Michigan	State Program	5	9925	06-30-14 *
Mississippi	State Program	4	N/A	06-30-14 *
Montana	State Program	8	CERT0081	01-01-15
Nebraska	State Program	7	TestAmerica-Savannah	06-30-14 *
New Jersey	NELAP	2	GA769	06-30-15
New Mexico	State Program	6	N/A	06-30-14 *
New York	NELAP	2	10842	03-31-15
North Carolina (DW)	State Program	4	13701	07-31-15
North Carolina (WW/SW)	State Program	4	269	12-31-14
Oklahoma	State Program	6	9984	08-31-14
Pennsylvania	NELAP	3	68-00474	06-30-15
Puerto Rico	State Program	2	GA00006	12-31-14
South Carolina	State Program	4	98001	06-30-14 *
Tennessee	State Program	4	TN02961	06-30-15
Texas	NELAP	6	T104704185-08-TX	11-30-14
USDA	Federal		SAV 3-04	06-11-17
Virginia	NELAP	3	460161	06-14-15
Washington	State Program	10	C805	06-10-15
West Virginia (DW)	State Program	3	9950C	12-31-14
West Virginia DEP	State Program	3	94	06-30-14 *
Wisconsin	State Program	5	999819810	08-31-14
Wyoming	State Program	8	8TMS-L	06-30-14 *

Laboratory: TestAmerica Tallahassee

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

* Certification renewal pending - certification considered valid.

Certification Summary

Client: Ashland Inc.
Project/Site: Ashland Brunswick SA GW Monitoring

TestAmerica Job ID: 680-103380-1

Laboratory: TestAmerica Tallahassee (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Florida	NELAP	4	E81005	06-30-15
Georgia	State Program	4		06-30-15
Louisiana	NELAP	6	30663	06-30-15
New Jersey	NELAP	2	FL012	06-30-15
Texas	NELAP	6	T104704459-11-2	03-31-15
USDA	Federal		P330-08-00158	08-05-14

Definitions/Glossary

Client: Ashland Inc. TestAmerica Job ID: 680-103380-1
Project/Site: Ashland Brunswick SA GW Monitoring

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
*	RPD of the LCS and LCSD exceeds the control limits
*	ISTD response or retention time outside acceptable limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Appendix L

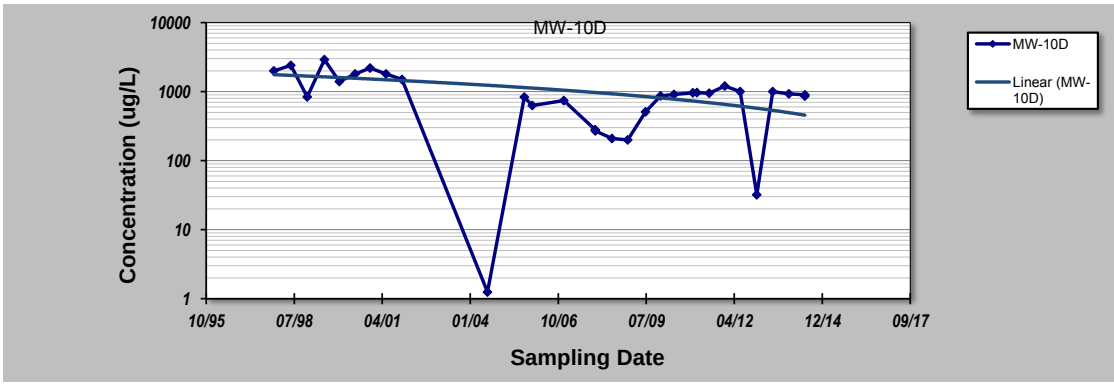
Trend Graphs and Mann Kendall Test Results

GSI MANN-KENDALL TOOLKIT
for Constituent Trend Analysis

Evaluation Date:	3-Sep-14	Job ID:	WB52014B2
Facility Name:	Former Hercules Brunswick Facility	Constituent:	Benzene
Conducted By:	GH	Concentration Units:	ug/L

Sampling Point ID: MW-10D

Sampling Event	Sampling Date	BENZENE CONCENTRATION (ug/L)
1	12/5/1997	2000
2	6/16/1998	2400
3	12/18/1998	840
4	7/1/1999	2900
5	12/20/1999	1400
6	6/15/2000	1800
7	12/1/2000	2200
8	6/1/2001	1800
9	12/1/2001	1500
10	7/27/2004	1.25
11	9/20/2005	830
12	12/20/2005	630
13	12/13/2006	740
14	12/4/2007	280
15	12/5/2007	270
16	6/11/2008	210
17	12/9/2008	200
18	6/29/2009	510
19	12/16/2009	870
20	5/19/2010	910
21	12/17/2010	960
22	2/2/2011	970
23	6/23/2011	950
24	12/16/2011	1200
25	6/8/2012	1000
26	12/13/2012	32
27	6/13/2013	1000
28	12/12/2013	930
29	6/12/2014	900
30	6/12/2014	860
31		
32		
33		
34		
35		
Coefficient of Variation:		0.68
Mann-Kendall Statistic (S):		-95
Confidence Factor:		95.3%
Concentration Trend:		Decreasing



Notes:

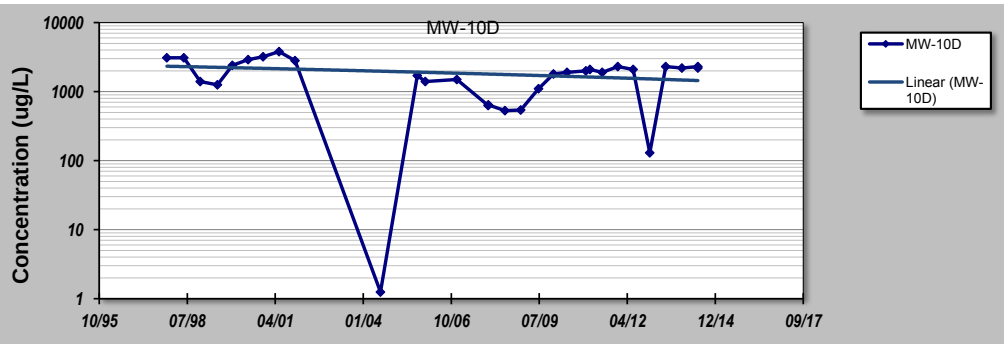
1. At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
3. Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water* , 41(3):355-367, 2003.

GSI MANN-KENDALL TOOLKIT
for Constituent Trend Analysis

Evaluation Date:	3-Sep-14	Job ID:	WB52014B2
Facility Name:	Former Hercules Brunswick Facility	Constituent:	Chlorobenzene
Conducted By:	GH	Concentration Units:	ug/L

Sampling Point ID: MW-10D

Sampling Event	Sampling Date	CHLOROBENZENE CONCENTRATION (ug/L)
1	12/5/1997	3100
2	6/16/1998	3100
3	12/18/1998	1400
4	7/1/1999	1250
5	12/20/1999	2400
6	6/15/2000	2900
7	12/1/2000	3200
8	6/1/2001	3800
9	12/1/2001	2800
10	7/27/2004	1.25
11	9/20/2005	1700
12	12/20/2005	1400
13	12/13/2006	1500
14	12/4/2007	630
15	12/5/2007	640
16	6/11/2008	530
17	12/9/2008	540
18	6/29/2009	1100
19	12/16/2009	1800
20	5/19/2010	1900
21	12/17/2010	2000
22	2/2/2011	2100
23	6/23/2011	1900
24	12/16/2011	2300
25	6/8/2012	2100
26	12/13/2012	130
27	6/13/2013	2300
28	12/12/2013	2200
29	6/12/2014	2300
30	6/12/2014	2200
31		
32		
33		
34		
35		
Coefficient of Variation:		0.52
Mann-Kendall Statistic (S):		-11
Confidence Factor:		57.0%
Concentration Trend:		Stable



Notes:

1. At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
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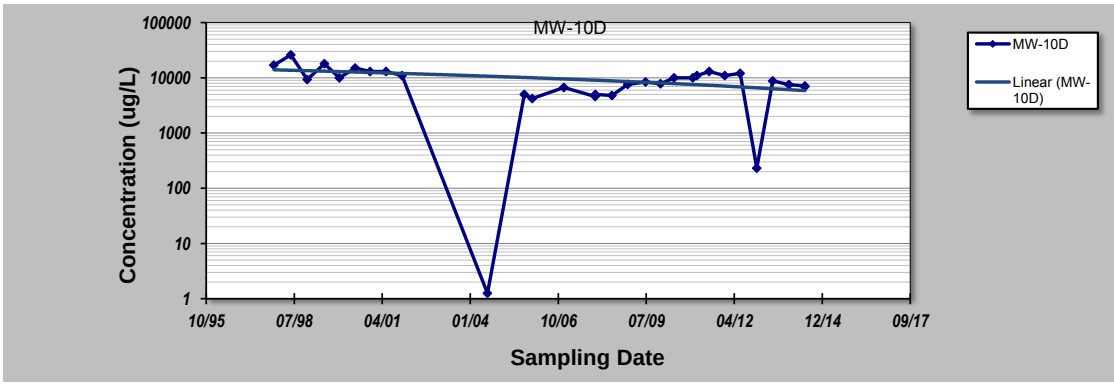
GSI MANN-KENDALL TOOLKIT
for Constituent Trend Analysis

Evaluation Date:	3-Sep-14	Job ID:	WB52014B2
Facility Name:	Former Hercules Brunswick Facility	Constituent:	Methylene Chloride
Conducted By:	GH	Concentration Units:	ug/L

Sampling Point ID: MW-10D

Sampling Event	Sampling Date	METHYLENE CHLORIDE CONCENTRATION (ug/L)
1	12/5/1997	17000
2	6/16/1998	26000
3	12/18/1998	9300
4	7/1/1999	18000
5	12/20/1999	10000
6	6/15/2000	15000
7	12/1/2000	13000
8	6/1/2001	13000
9	12/1/2001	11000
10	7/27/2004	1.25
11	9/20/2005	5000
12	12/20/2005	4200
13	12/13/2006	6700
14	12/4/2007	4600
15	12/5/2007	5000
16	6/11/2008	4800
17	12/9/2008	7600
18	6/29/2009	8400
19	12/16/2009	7800
20	5/19/2010	10000
21	12/17/2010	10000
22	2/2/2011	11000
23	6/23/2011	13000
24	12/16/2011	11000
25	6/8/2012	12000
26	12/13/2012	230
27	6/13/2013	8800
28	12/12/2013	7500
29	6/12/2014	7100
30	6/12/2014	6900
31		
32		
33		
34		
35		
Coefficient of Variation:		0.56
Mann-Kendall Statistic (S):		-91
Confidence Factor:		94.6%
Concentration Trend:		Prob. Decreasing



Notes:

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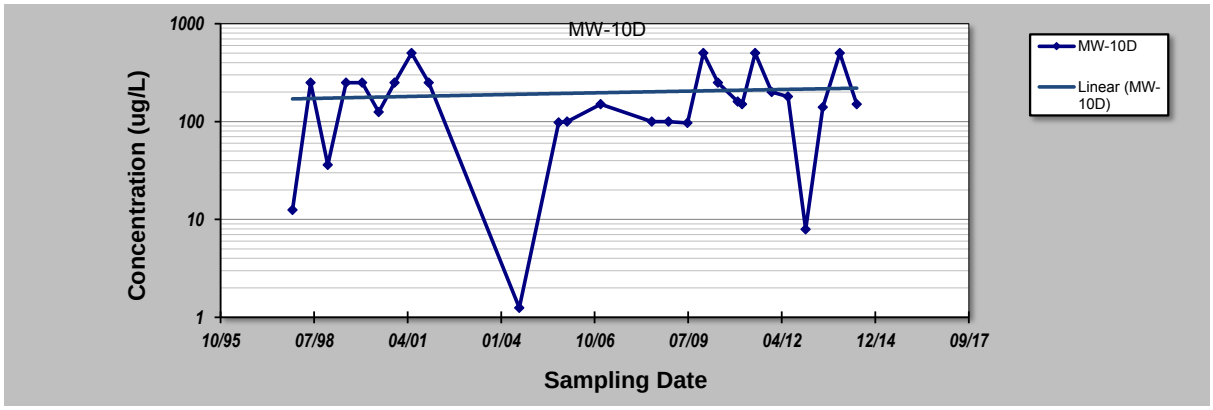
3. Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water* , 41(3):355-367, 2003.

GSI MANN-KENDALL TOOLKIT
for Constituent Trend Analysis

Evaluation Date:	3-Sep-14	Job ID:	WB52014B2
Facility Name:	Former Hercules Brunswick Facility	Constituent:	Total Xylenes
Conducted By:	GH	Concentration Units:	ug/L

Sampling Point ID: MW-10D

Sampling Event	Sampling Date	TOTAL XYLENES CONCENTRATION (ug/L)
1	12/5/1997	12.5
2	6/16/1998	250
3	12/18/1998	36
4	7/1/1999	250
5	12/20/1999	250
6	6/15/2000	125
7	12/1/2000	250
8	6/1/2001	500
9	12/1/2001	250
10	7/27/2004	1.25
11	9/20/2005	98
12	12/20/2005	100
13	12/13/2006	150
14	6/11/2008	100
15	12/9/2008	100
16	6/29/2009	97
17	12/16/2009	500
18	5/19/2010	250
19	12/17/2010	160
20	2/2/2011	150
21	6/23/2011	500
22	12/16/2011	200
23	6/8/2012	180
24	12/13/2012	7.9
25	6/13/2013	140
26	12/12/2013	500
27	6/12/2014	150
28		
29		
30		
Coefficient of Variation:		0.76
Mann-Kendall Statistic (S):		26
Confidence Factor:		69.7%
Concentration Trend:		No Trend



Notes:

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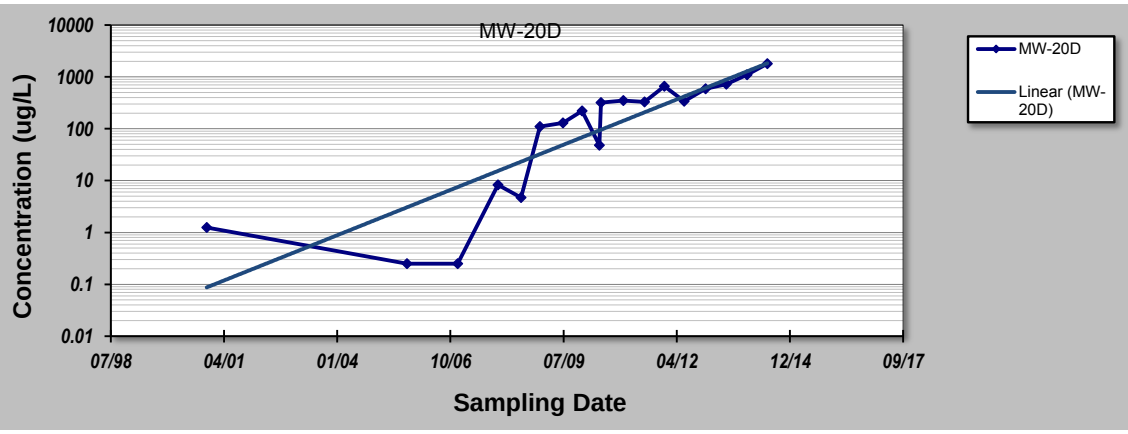
3. Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water* , 41(3):355-367, 2003.

GSI MANN-KENDALL TOOLKIT
for Constituent Trend Analysis

Evaluation Date:	3-Sep-14	Job ID:	WB52014B2
Facility Name:	Former Hercules Brunswick Facility	Constituent:	Benzene
Conducted By:	GH	Concentration Units:	ug/L

Sampling Point ID: **MW-20D**

Sampling Event	Sampling Date	BENZENE CONCENTRATION (ug/L)
1	11/17/2000	1.25
2	9/21/2005	0.25
3	12/14/2006	0.25
4	12/5/2007	8.3
5	6/25/2008	4.7
6	12/10/2008	110
7	6/30/2009	130
8	12/16/2009	220
9	5/18/2010	48
10	6/2/2010	320
11	12/16/2010	350
12	6/22/2011	330
13	12/14/2011	660
14	6/6/2012	340
15	12/12/2012	590
16	6/13/2013	720
17	12/13/2013	1100
18	6/10/2014	1800
19		
20		
Coefficient of Variation:		1.26
Mann-Kendall Statistic (S):		132
Confidence Factor:		>99.9%
Concentration Trend:		Increasing



Notes:

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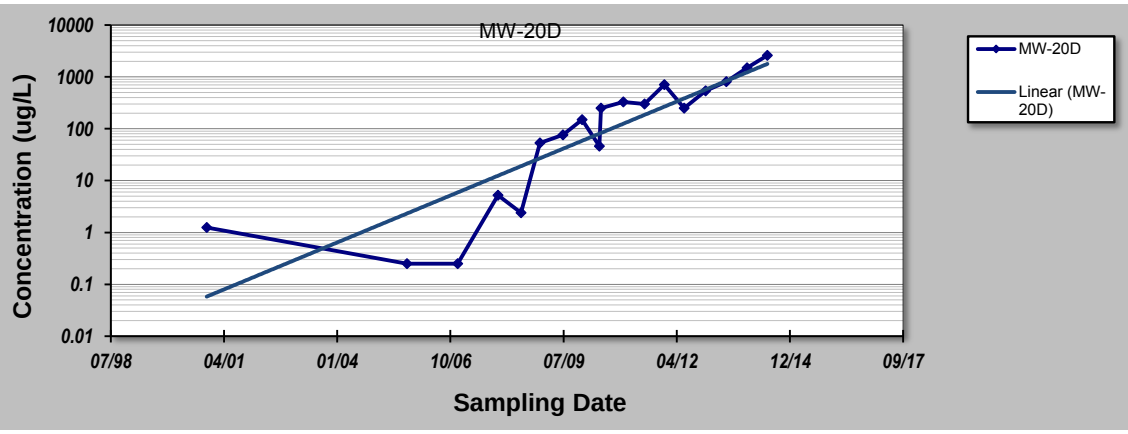
GSI MANN-KENDALL TOOLKIT
for Constituent Trend Analysis

Evaluation Date:	3-Sep-14	Job ID:	WB52014B2
Facility Name:	Former Hercules Brunswick Facility	Constituent:	Chlorobenzene
Conducted By:	GH	Concentration Units:	ug/L

Sampling Point ID: MW-20D

Sampling Event	Sampling Date	CHLOROBENZENE CONCENTRATION (ug/L)
1	11/17/2000	1.25
2	9/21/2005	0.25
3	12/14/2006	0.25
4	12/5/2007	5.2
5	6/25/2008	2.4
6	12/10/2008	53
7	6/30/2009	76
8	12/16/2009	150
9	5/18/2010	46
10	6/2/2010	250
11	12/16/2010	330
12	6/22/2011	300
13	12/14/2011	710
14	6/6/2012	250
15	12/12/2012	540
16	6/13/2013	810
17	12/13/2013	1500
18	6/10/2014	2600
19		
20		
Coefficient of Variation:		1.58
Mann-Kendall Statistic (S):		129
Confidence Factor:		>99.9%
Concentration Trend:		Increasing



Notes:

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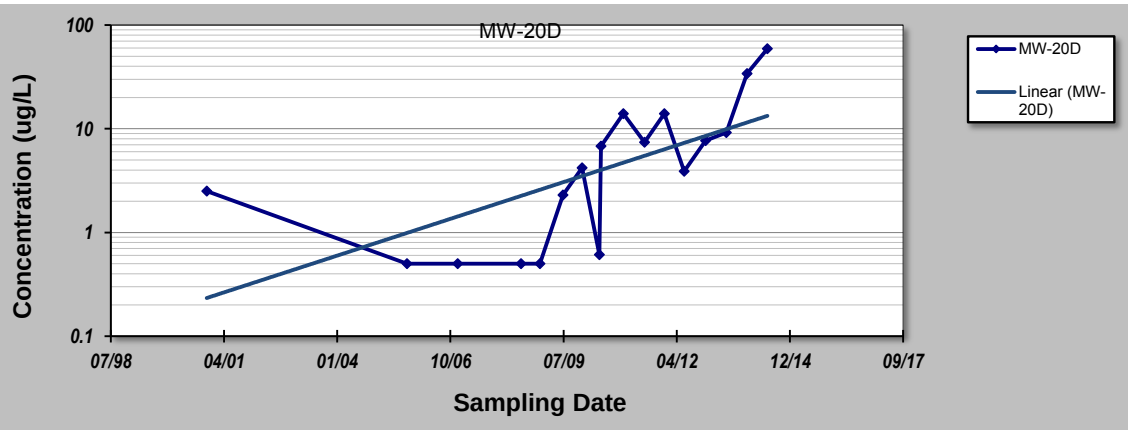
GSI MANN-KENDALL TOOLKIT
for Constituent Trend Analysis

Evaluation Date:	3-Sep-14	Job ID:	WB52014B2
Facility Name:	Former Hercules Brunswick Facility	Constituent:	Total Xylenes
Conducted By:	GH	Concentration Units:	ug/L

Sampling Point ID: MW-20D

Sampling Event	Sampling Date	TOTAL XYLENES CONCENTRATION (ug/L)
1	11/17/2000	2.5
2	9/21/2005	0.5
3	12/14/2006	0.5
4	6/25/2008	0.5
5	12/10/2008	0.5
6	6/30/2009	2.3
7	12/16/2009	4.2
8	5/18/2010	0.61
9	6/2/2010	6.8
10	12/16/2010	14
11	6/22/2011	7.4
12	12/14/2011	14
13	6/6/2012	3.9
14	12/12/2012	7.7
15	6/13/2013	9.2
16	12/13/2013	34
17	6/10/2014	59
18		
19		
20		
Coefficient of Variation:		1.54
Mann-Kendall Statistic (S):		93
Confidence Factor:		>99.9%
Concentration Trend:		Increasing



Notes:

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2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
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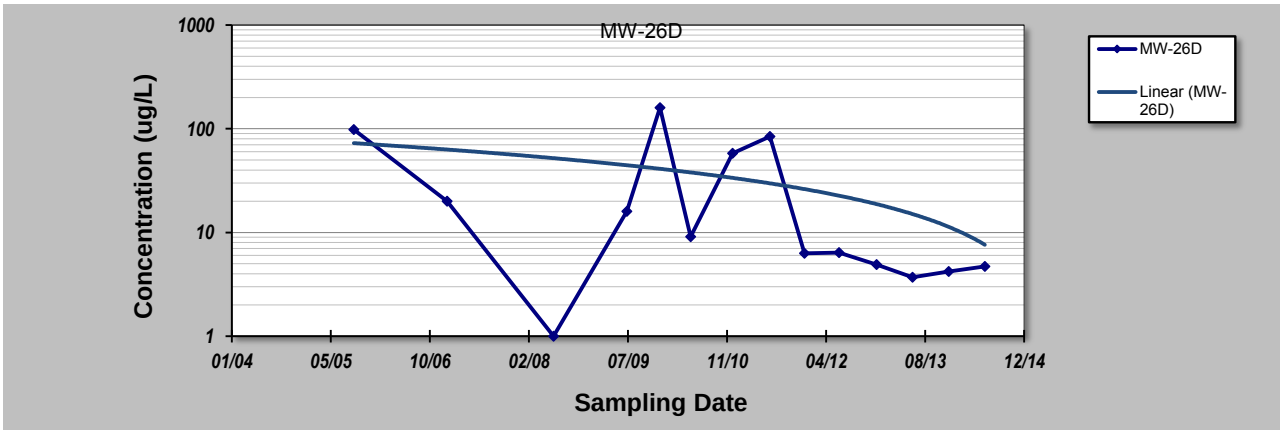
GSI MANN-KENDALL TOOLKIT
for Constituent Trend Analysis

Evaluation Date:	3-Sep-14	Job ID:	WB52014B2
Facility Name:	Former Hercules Brunswick Facility	Constituent:	Benzene
Conducted By:	GH	Concentration Units:	ug/L

Sampling Point ID: MW-26D

Sampling Event	Sampling Date	BENZENE CONCENTRATION (ug/L)
1	9/21/2005	98
2	1/5/2007	20
3	6/25/2008	1
4	6/30/2009	16
5	12/15/2009	160
6	5/18/2010	9.1
7	12/16/2010	58
8	6/23/2011	84
9	12/14/2011	6.3
10	6/6/2012	6.4
11	12/12/2012	4.9
12	6/11/2013	3.7
13	12/11/2013	4.2
14	6/11/2014	4.7
15		
16		
17		
18		
19		
20		
Coefficient of Variation:		1.42
Mann-Kendall Statistic (S):		-41
Confidence Factor:		98.7%
Concentration Trend:		Decreasing



Notes:

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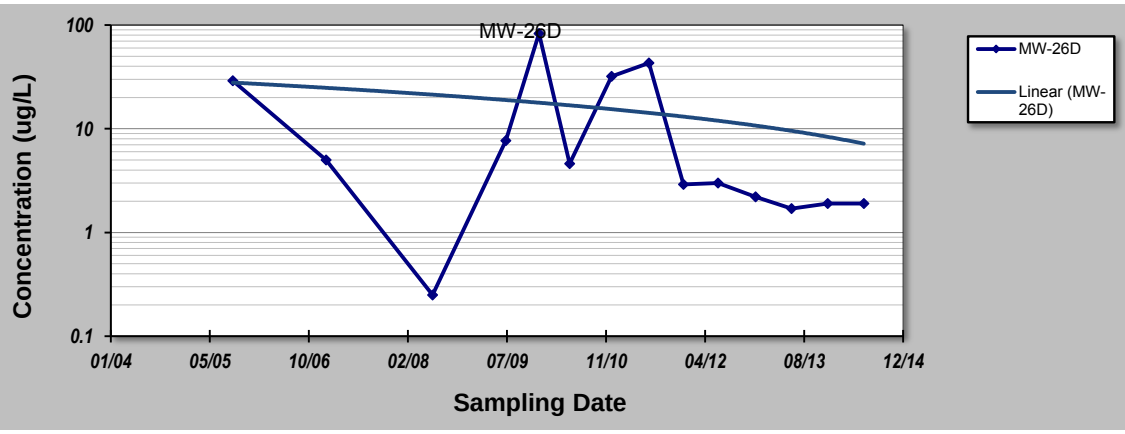
GSI MANN-KENDALL TOOLKIT
for Constituent Trend Analysis

Evaluation Date:	3-Sep-14	Job ID:	WB52014B2
Facility Name:	Former Hercules Brunswick Facility	Constituent:	Chlorobenzene
Conducted By:	GH	Concentration Units:	ug/L

Sampling Point ID: MW-26D

Sampling Event	Sampling Date	CHLOROBENZENE CONCENTRATION (ug/L)
1	9/21/2005	29
2	1/5/2007	5
3	6/25/2008	0.25
4	6/30/2009	7.7
5	12/15/2009	83
6	5/18/2010	4.6
7	12/16/2010	32
8	6/23/2011	43
9	12/14/2011	2.9
10	6/6/2012	3
11	12/12/2012	2.2
12	6/11/2013	1.7
13	12/11/2013	1.9
14	6/11/2014	1.9
15		
16		
17		
18		
19		
20		
Coefficient of Variation:		1.53
Mann-Kendall Statistic (S):		-36
Confidence Factor:		97.3%
Concentration Trend:		Decreasing



Notes:

1. At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
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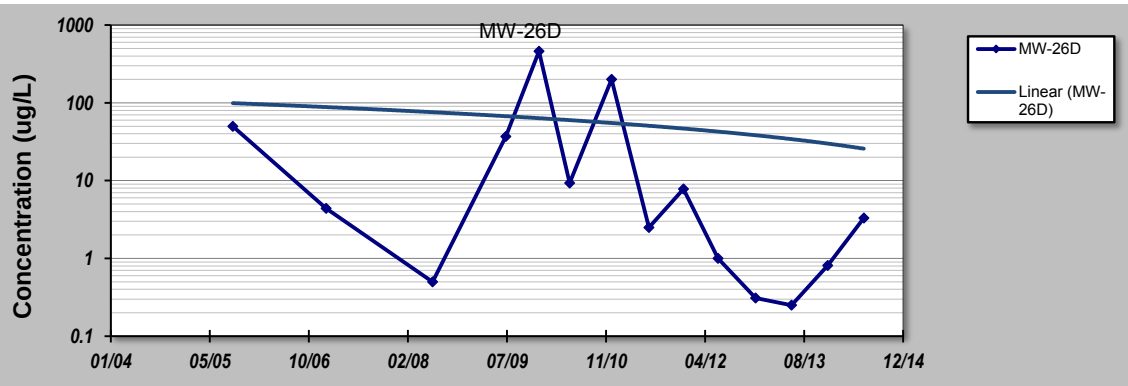
GSI MANN-KENDALL TOOLKIT
for Constituent Trend Analysis

Evaluation Date:	3-Sep-14	Job ID:	WB52014B2
Facility Name:	Former Hercules Brunswick Facility	Constituent:	Total Xylenes
Conducted By:	GH	Concentration Units:	ug/L

Sampling Point ID: MW-26D

Sampling Event	Sampling Date	TOTAL XYLENES CONCENTRATION (ug/L)
1	9/21/2005	50
2	1/5/2007	4.4
3	6/25/2008	0.5
4	6/30/2009	37
5	12/15/2009	460
6	5/18/2010	9.3
7	12/16/2010	200
8	6/23/2011	2.5
9	12/14/2011	7.8
10	6/6/2012	1
11	12/12/2012	0.31
12	6/11/2013	0.25
13	12/11/2013	0.81
14	6/11/2014	3.3
15		
16		
17		
18		
19		
20		
Coefficient of Variation:		2.30
Mann-Kendall Statistic (S):		-37
Confidence Factor:		97.6%
Concentration Trend:		Decreasing



Notes:

1. At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
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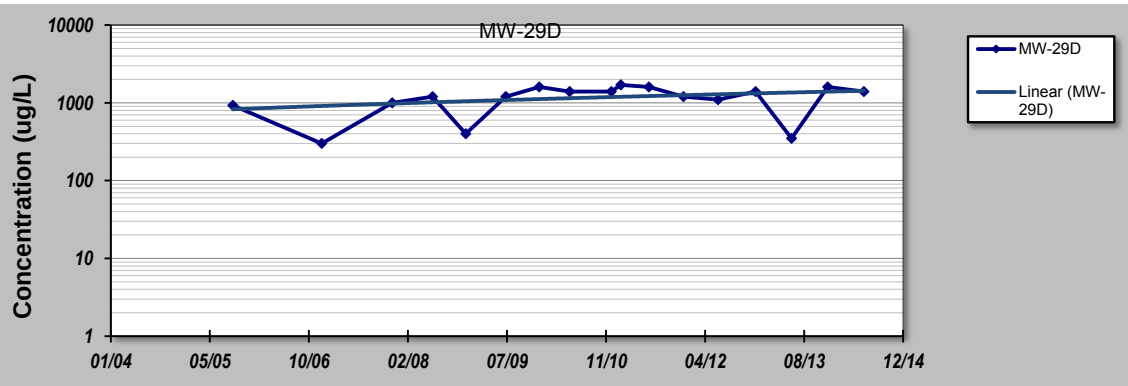
GSI MANN-KENDALL TOOLKIT
for Constituent Trend Analysis

Evaluation Date:	3-Sep-14	Job ID:	WB52014B2
Facility Name:	Former Hercules Brunswick Facility	Constituent:	Benzene
Conducted By:	GH	Concentration Units:	ug/L

Sampling Point ID: MW-29D

Sampling Event	Sampling Date	BENZENE CONCENTRATION (ug/L)
1	9/21/2005	930
2	12/14/2006	300
3	12/5/2007	1000
4	6/25/2008	1200
5	12/10/2008	400
6	6/30/2009	1200
7	12/16/2009	1600
8	5/18/2010	1400
9	12/15/2010	1400
10	2/1/2011	1700
11	6/23/2011	1600
12	12/14/2011	1200
13	6/6/2012	1100
14	12/12/2012	1400
15	6/11/2013	350
16	12/11/2013	1600
17	6/11/2014	1400
18		
19		
20		
Coefficient of Variation:		0.38
Mann-Kendall Statistic (S):		42
Confidence Factor:		95.4%
Concentration Trend:		Increasing



Notes:

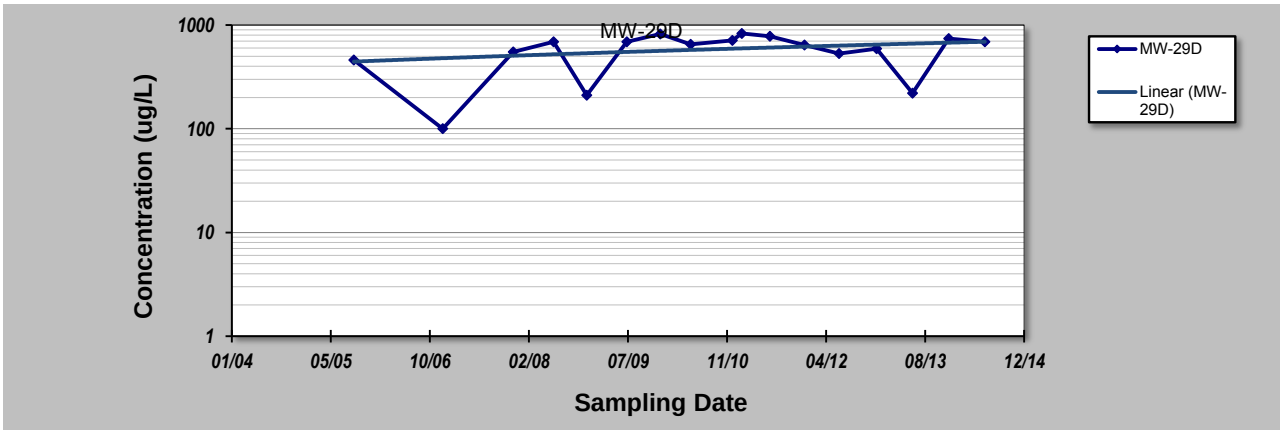
1. At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
3. Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water* , 41(3):355-367, 2003.

GSI MANN-KENDALL TOOLKIT
for Constituent Trend Analysis

Evaluation Date:	3-Sep-14	Job ID:	WB52014B2
Facility Name:	Former Hercules Brunswick Facility	Constituent:	Chlorobenzene
Conducted By:	GH	Concentration Units:	ug/L

Sampling Point ID: MW-29D

Sampling Event	Sampling Date	CHLOROBENZENE CONCENTRATION (ug/L)
1	9/21/2005	460
2	12/14/2006	100
3	12/5/2007	550
4	6/25/2008	690
5	12/10/2008	210
6	6/30/2009	690
7	12/16/2009	820
8	5/18/2010	650
9	12/15/2010	710
10	2/1/2011	830
11	6/23/2011	780
12	12/14/2011	640
13	6/6/2012	530
14	12/12/2012	590
15	6/11/2013	220
16	12/11/2013	740
17	6/11/2014	690
18		
19		
20		
Coefficient of Variation:		0.37
Mann-Kendall Statistic (S):		25
Confidence Factor:		83.6%
Concentration Trend:		No Trend



Notes:

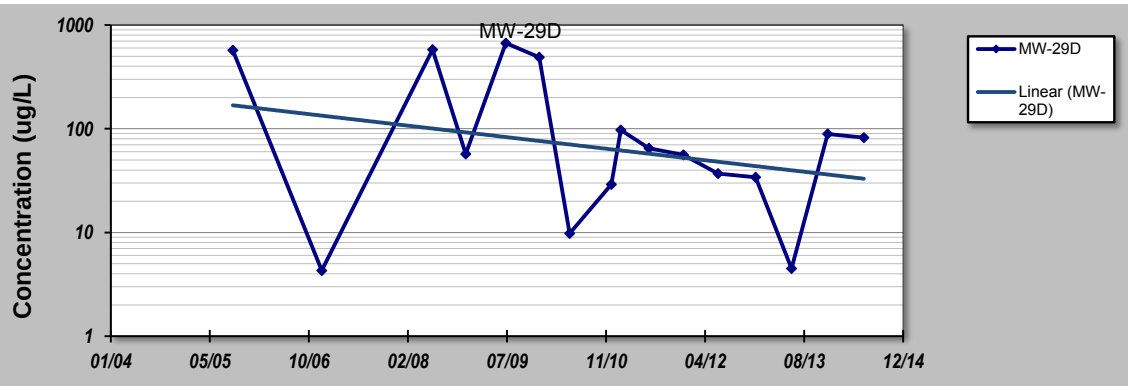
1. At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
3. Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water* , 41(3):355-367, 2003.

GSI MANN-KENDALL TOOLKIT
for Constituent Trend Analysis

Evaluation Date:	3-Sep-14	Job ID:	WB52014B2
Facility Name:	Former Hercules Brunswick Facility	Constituent:	Total Xylenes
Conducted By:	GH	Concentration Units:	ug/L

Sampling Point ID: MW-29D

Sampling Event	Sampling Date	TOTAL XYLENES CONCENTRATION (ug/L)
1	9/21/2005	570
2	12/14/2006	4.3
3	6/25/2008	580
4	12/10/2008	57
5	6/30/2009	670
6	12/16/2009	490
7	5/18/2010	9.8
8	12/15/2010	29
9	2/1/2011	97
10	6/23/2011	65
11	12/14/2011	56
12	6/6/2012	37
13	12/12/2012	34
14	6/11/2013	4.5
15	12/11/2013	89
16	6/11/2014	82
17		
18		
19		
20		
Coefficient of Variation:		1.34
Mann-Kendall Statistic (S):		-24
Confidence Factor:		84.7%
Concentration Trend:		No Trend



Notes:

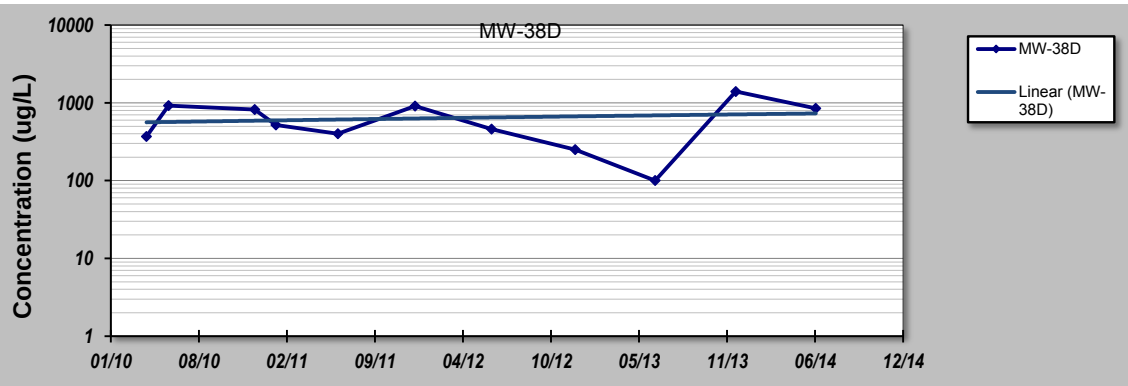
1. At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
3. Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water* , 41(3):355-367, 2003.

GSI MANN-KENDALL TOOLKIT
for Constituent Trend Analysis

Evaluation Date:	3-Sep-14	Job ID:	WB52014B2
Facility Name:	Former Hercules Brunswick Facility	Constituent:	Benzene
Conducted By:	GH	Concentration Units:	ug/L

Sampling Point ID: MW-38D

Sampling Event	Sampling Date	BENZENE CONCENTRATION (ug/L)
1	4/13/2010	370
2	6/2/2010	920
3	12/15/2010	820
4	2/1/2011	520
5	6/22/2011	400
6	12/14/2011	910
7	6/5/2012	460
8	12/12/2012	250
9	6/11/2013	100
10	12/11/2013	1400
11	6/11/2014	850
12		
13		
14		
15		
16		
17		
18		
19		
20		
Coefficient of Variation:		0.59
Mann-Kendall Statistic (S):		-3
Confidence Factor:		56.0%
Concentration Trend:		Stable



Notes:

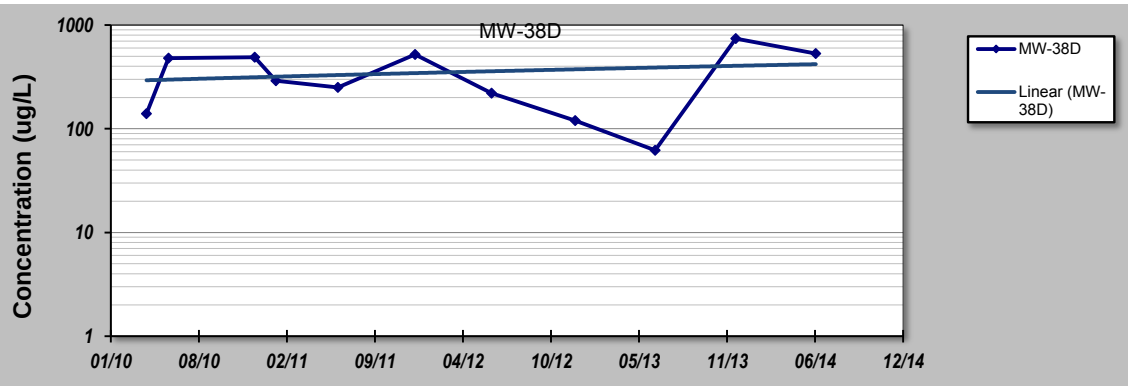
1. At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
3. Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water* , 41(3):355-367, 2003.

GSI MANN-KENDALL TOOLKIT
for Constituent Trend Analysis

Evaluation Date:	3-Sep-14	Job ID:	WB52014B2
Facility Name:	Former Hercules Brunswick Facility	Constituent:	Chlorobenzene
Conducted By:	GH	Concentration Units:	ug/L

Sampling Point ID: MW-38D

Sampling Event	Sampling Date	CHLOROBENZENE CONCENTRATION (ug/L)
1	4/13/2010	140
2	6/2/2010	480
3	12/15/2010	490
4	2/1/2011	290
5	6/22/2011	250
6	12/14/2011	520
7	6/5/2012	220
8	12/12/2012	120
9	6/11/2013	62
10	12/11/2013	740
11	6/11/2014	530
12		
13		
14		
15		
16		
17		
18		
19		
20		
Coefficient of Variation:		0.61
Mann-Kendall Statistic (S):		3
Confidence Factor:		56.0%
Concentration Trend:		No Trend



Notes:

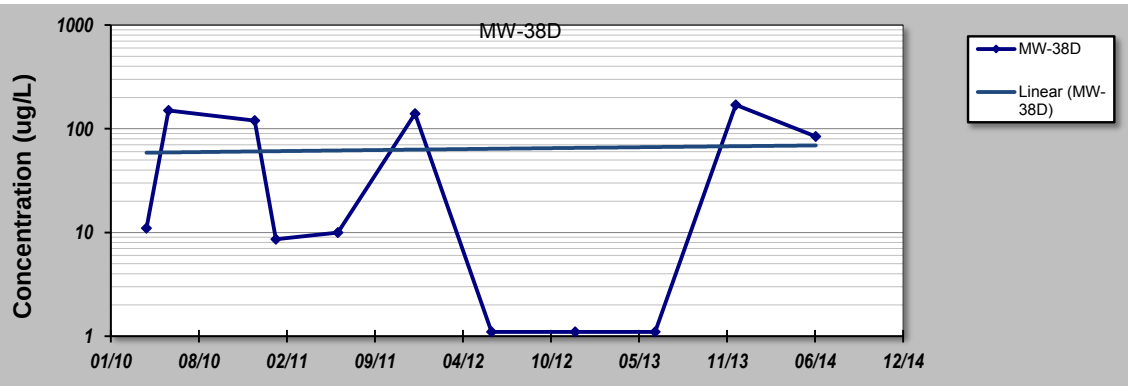
1. At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
3. Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water* , 41(3):355-367, 2003.

GSI MANN-KENDALL TOOLKIT
for Constituent Trend Analysis

Evaluation Date:	3-Sep-14	Job ID:	WB52014B2
Facility Name:	Former Hercules Brunswick Facility	Constituent:	Total Xylenes
Conducted By:	GH	Concentration Units:	ug/L

Sampling Point ID: MW-38D

Sampling Event	Sampling Date	TOTAL XYLENES CONCENTRATION (ug/L)
1	4/13/2010	11
2	6/2/2010	150
3	12/15/2010	120
4	2/1/2011	8.6
5	6/22/2011	10
6	12/14/2011	140
7	6/5/2012	1.1
8	12/12/2012	1.1
9	6/11/2013	1.1
10	12/11/2013	170
11	6/11/2014	84
12		
13		
14		
15		
16		
17		
18		
19		
20		
Coefficient of Variation:		1.10
Mann-Kendall Statistic (S):		-8
Confidence Factor:		70.3%
Concentration Trend:		No Trend



Notes:

1. At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
3. Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water* , 41(3):355-367, 2003.

Trend Evaluation Results

The trend evaluation results for each of the monitoring wells along with a description of each of the COPCs evaluated is provided below.

MW-10D Trend Evaluation

Benzene – Benzene concentration in this well fluctuated during the late 1990s, ultimately reaching a high of 2,900 ug/L in July 1999. The concentration steadily decreased thereafter through the end of 2008, when it reached a low of 200 ug/L. Between 2009 and 2011 the concentration steadily increased, with a high of 1,200 ug/L in December 2011. Since the end of 2011, the concentration has been consistently decreasing, with the most recent result being 860 ug/L in June 2014. Overall, the regression analysis trend line shows that the trend is decreasing. Of note, the lows of non-detect (<2.5 ug/L) and 32 ug/L reported in July 2004 and December 2012, respectively, are clearly data outliers that are not likely to be representative of actual site conditions.

Review of the Mann Kendall trend evaluation showed a decreasing trend with a confidence factor (CF) of 95.3%. The confidence factor is a measure of the degree of confidence in the trend direction based on the calculated S factor. A CF in excess of 95% is considered indicative of a trend (increasing, decreasing, or stable). A CF between 90 and 95% is considered probable for trend, and a CF less than 90% is considered indicative of no trend.

Chlorobenzene – Like benzene, the chlorobenzene concentrations in MW-10D showed a similar pattern, fluctuated during the late 1990s, and ultimately reaching a high of 3,800 ug/L in June 2001. The concentration steadily decreased thereafter through the end of 2008, when it reached a low of 540 ug/L. Between 2009 and 2011 the concentration steadily increased, with a high of 2,300 ug/L in December 2011. Since the end of 2011, the concentration has remained consistently above 2,000 ug/L. Overall, the regression analysis trend line appears stable (neither increasing nor decreasing). Of note, the lows of non-detect (<2.5 ug/L) and 130 ug/L reported in July 2004 and December 2012, respectively, are clearly data outliers that are not likely to be representative of actual site conditions. The Mann Kendall trend evaluation indicates that the chlorobenzene concentrations when evaluated over the historical sampling results from monitoring well MW-10D can be characterized as stable with no apparent trend (57% CF).

Total Xylenes – Xylenes were typically not found above method detection limits in MW-10D historically, with only four instances of measureable concentrations occurring through the end of 2009 (in December 1998, June 2005, December 2006, and June 2009. After 2009 detections became more frequent, but typically did not exceed 200 ug/L, with a peak concentration of 250 ug/L recorded in May 2010. The regression trend line is flat throughout the monitoring period, but it should be noted that half the detection limit was used to quantify non-detected results, and detection limits as high as 1,000 ug/L were recorded in several instances, creating a regression chart with a number of peaks ranging up to

500 ug/L that are not confirmed values. Likewise, review of the Mann Kendall evaluation result indicates that the total xylene concentrations exhibit no trend (69.7% CF), but again, the analysis is primarily tracking variability in detection limits over time.

Methylene Chloride – Methylene chloride concentrations in MW-10D fluctuated, but decreased steadily through mid 2008, with a peak concentration of 26,000 ug/L in June 1998 and a low of 4,800 ug/L in June 2008. Concentrations then increased steadily through 2012 (13,000 peak in June 2011), then commenced a decreasing trend that continues through the present (most recent concentration 6,900 ug/L in June 2014). Review of the regression evaluation shows that the methylene chloride concentrations are probably decreasing (94.6% CF).

MW-20D Trend Evaluation

Benzene – Benzene concentrations were non-detect through three initial rounds of sampling collected between 2005 and 2005. December 2006 marked the beginning of an ongoing increasing concentration trend, with peak concentrations occurring during the most recent two sampling rounds (1,100 and 1,800 ug/L in December 2013 and June 2014, respectively). Both the regression trend and Mann Kendall evaluations show an increasing trend (99.9% CF for the Mann Kendall analysis.

Chlorobenzene – Like benzene chlorobenzene concentrations in MW-20D were non-detect through three initial rounds of sampling collected between 2005 and 2005. December 2006 also marked the beginning of an ongoing increasing concentration trend, with peak concentrations occurring during the two most recent sampling rounds (1,500 and 2,600 ug/L in December 2013 and June 2014, respectively). Both the regression trend and Mann Kendall evaluations show an increasing trend (99.9% CF for the Mann Kendall analysis.

Total Xylenes – Total xylene concentrations remained undetected through 2008, then began a consistently increasing trend which continues into the present with peak concentrations of 34 and 59 ug/L reported during the past two sampling events (December 2013 and June 2014, respectively). Both the regression trend and Mann Kendall evaluations show an increasing trend (99.9% CF for the Mann Kendall analysis.

MW-26D Trend Evaluation

Benzene – After initially decreasing between 2005 and 2008 (lowest concentration was 1 ug/L in June 2008), concentrations increased during 2009, peaking at 160 ug/L in December of that year. Concentrations remained elevated through mid 2011, and have steadily decreased since then (most recent concentration was 4.7 ug/L in June 2014).

Chlorobenzene – Like benzene, chlorobenzene concentrations in MW-26D initially decreased through 2008, peaked at 83 ug/L in December 2009, then steadily decreased to the most recent result of 1.9 ug/L

(June 2014). Overall, both the regression trend and Mann Kendall evaluations show a decreasing trend (97.3% CF).

Total Xylenes – Total xylene concentrations remained undetected through 2008, then began an increasing trend through 2009, peaking at 460 ug/L in December 2009. Concentrations subsequently decreased steadily through mid 2013, with a low of 0.25 ug/L in June 2013. Since then, concentrations have increased slightly, with a concentration of 3.3 ug/L at the most recent sampling event (June 2014). Overall, the regression trend appears to be decreasing, and the Mann Kendall evaluation yielded a decreasing trend (97.6%).

MW-29D Trend Evaluation

Benzene – Benzene concentrations in MW-29D have fluctuated, but exhibited a consistently increasing trend since 2005, with concentrations generally above 1,000 ug/L, a peak concentration of 1,700 ug/L in February 2011, and a most recent concentration of 1,400 in June 2014. The regression evaluation for benzene concentration at MW-29D indicated that the trend is increasing, which is confirmed by the Mann Kendall evaluation (95.4% CF).

Chlorobenzene – Like benzene, chlorobenzene concentrations in MW-29D have fluctuated but overall have shown a consistently increasing trend since 2005, with concentrations generally above 500 ug/L, a peak concentration of 830 ug/L in February 2011, and a most recent concentration of 690 ug/L in June 2014. The regression evaluation for chlorobenzene concentration at MW-29D shows an apparently increasing trend, while the Mann Kendall analysis showed no trend (83.6% CF).

Total Xylenes – Total xylene concentrations in MW-29D fluctuated between 2005 and 2009, peaking in December 2009 at 670 ug/L. Concentrations subsequently decreased consistently through June 2013, when they reached a low of 4.5 ug/L. Concentrations have increased in the subsequent two sampling events, with the most recent concentration reported at 82 ug/L (June 2014). The regression evaluation trend graph shows a decreasing trend line for total xylene concentrations at MW-29D, while the Mann Kendall evaluation result is stable with no apparent trend (84.7% CF).

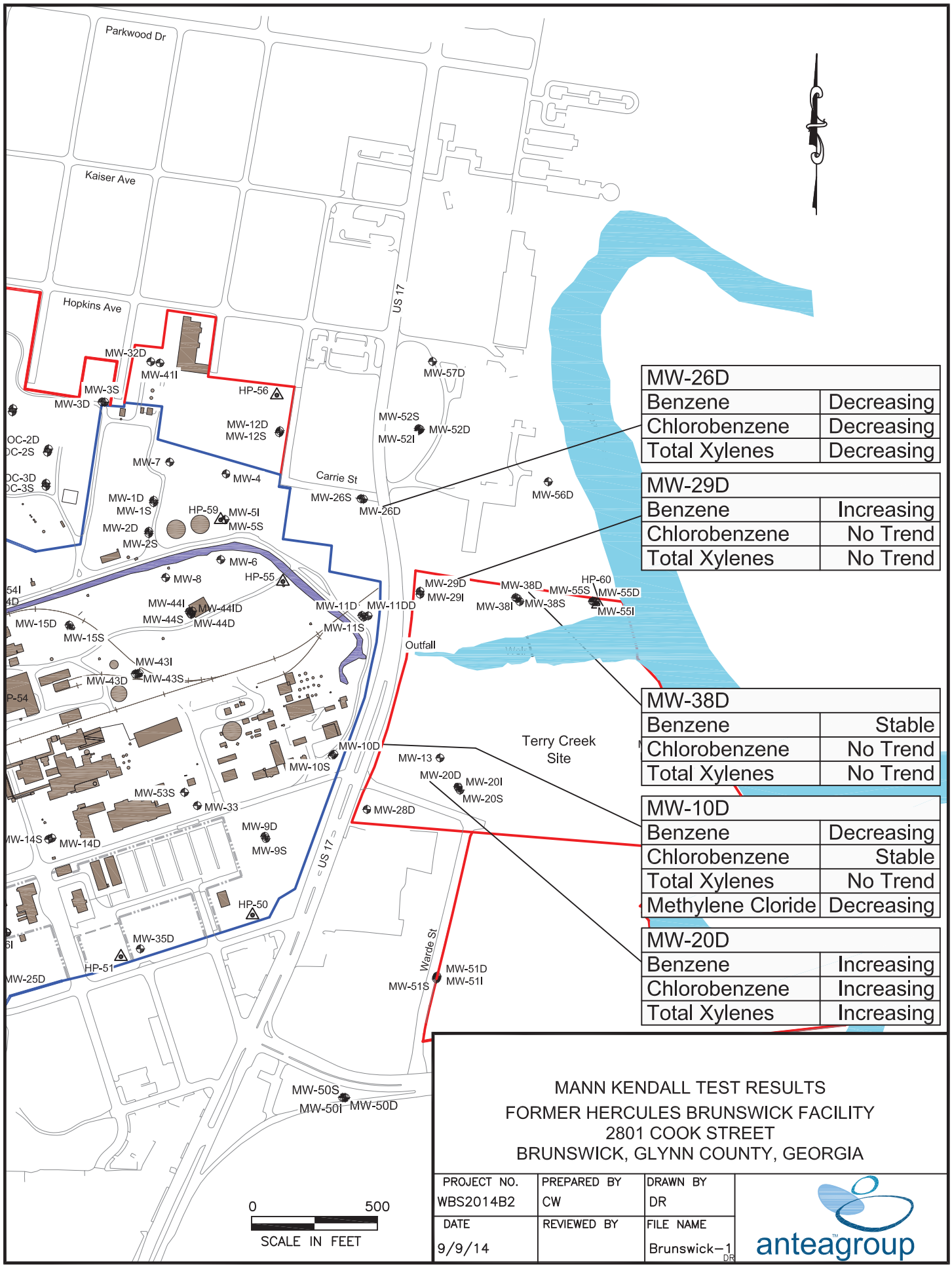
MW-38D Trend Evaluation

Benzene – Benzene concentrations were reported at 370 ug/L in April 2010 and increased to 920 ug/L in June 2010. After the June 2010, the three subsequent sampling events each had reported decreases in benzene concentrations with respect to the previous sampling event with a low of 400 ug/L reported in June 2011. Afterwards, a peak concentration of benzene was reported in December of 2011 of 910 ug/L and then the benzene decreased to 460 ug/L in June 2012. Review of the benzene regression trend line, indicates there is a slightly decreasing trend even though there is significant consistent fluctuations in benzene concentration throughout the historical data set. The Mann Kendall evaluation result is

stable with no apparent trend which is in generally in agreement with the regression evaluation trend line.

Chlorobenzene – In April 2010 the chlorobenzene concentration was reported at 140 ug/L and increased to 480 ug/L in June 2010 and remained nearly the same at 490 ug/L in December 2010. After December 2010, decreases in concentrations were reported in the two subsequent sampling events to a low of 250 ug/L in June 2011. In December 2011, the concentrations peaked at 520 ug/L and then subsequently decreased to 220 ug/L in June 2012. Another peak concentration (740 ug/L) was reported in December 2013, and most recently the reported concentration was 530 ug/L (June 2014). Review of the chlorobenzene regression trend evaluation shows an increasing trend line. The Mann Kendall analysis showed no trend (56% CF).

Total Xylenes – In April 2010, the concentrations were at 11 ug/L and increased to 150 ug/L in June 2010. After June 2010, the three subsequent events showed a marked decrease and were non-detect in the June 2011 event. In late 2011 the concentrations peaked at 140 ug/L and decreased to 1.1 ug/L in the June 2012 event. The concentration subsequently elevated to 170 ug/L in December 2013, and was most recently reported at 84 ug/L (June 2014). The overall regression appears flat with no discernable trend, which is corroborated by the Mann Kendall analysis result also showing no trend (70.3% CF).



MW-26D	
Benzene	Decreasing
Chlorobenzene	Decreasing
Total Xylenes	Decreasing

MW-29D	
Benzene	Increasing
Chlorobenzene	No Trend
Total Xylenes	No Trend

MW-38D	
Benzene	Stable
Chlorobenzene	No Trend
Total Xylenes	No Trend

MW-10D	
Benzene	Decreasing
Chlorobenzene	Stable
Total Xylenes	No Trend
Methylene Cloride	Decreasing

MW-20D	
Benzene	Increasing
Chlorobenzene	Increasing
Total Xylenes	Increasing

MANN KENDALL TEST RESULTS
FORMER HERCULES BRUNSWICK FACILITY
2801 COOK STREET
BRUNSWICK, GLYNN COUNTY, GEORGIA

PROJECT NO.	PREPARED BY	DRAWN BY
WBS2014B2	CW	DR
DATE	REVIEWED BY	FILE NAME
9/9/14		Brunswick–1 DR

anteagroup

Appendix M

April 2012 and August 2012 GeoSyntec Surface Water Analytical Data

Dupree Creek

N

Surface Water
SW-DMEB-01
SW-DMEB-02
SW-DMFL-01
SW-DMFL-02
SW-DMSH-05
SW-DMSH-06

Pore Water
PW-ODPR-01
PW-ODPR-02

Surface Water
SW-DCFL-01
SW-DCFL-02
SW-DCEB-01
SW-DCEB-02
SW-DCSH-05
SW-DCSH-06

Pore Water
PW-ODPO-01
PW-ODPO-02

0 50 100 200 Feet

Legend
- Pore Water
- Surface Water

Surface Water and Pore Water Locations
Terry Creek OU1 RI/FS
Brunswick, Georgia

Geosyntec consultants

HERCULES

Figure
3-2

Atlanta, Georgia

September 2013

Surface Water Sample Identification
Geosyntec Consultants - 2012

ID	Conditions
SW-DCEB-01	ebb tide, filtered
SW-DCEB-02	ebb tide, unfiltered
SW-DCEB-03	ebb tide, filtered, wet weather
SW-DCEB-04	ebb tide, unfiltered, wet weather
SW-DCFL-01	flood tide, filtered
SW-DCFL-02	flood tide, unfiltered
SW-DCFL-03	flood tide, filtered, wet weather
SW-DCFL-04	flood tide, unfiltered, wet weather
SW-DMEB-01	ebb tide, filtered
SW-DMEB-02	ebb tide, unfiltered
SW-DMEB-03	ebb tide, filtered, wet weather
SW-DMEB-04	ebb tide, unfiltered, wet weather
SW-DMFL-01	flood tide, filtered
SW-DMFL-02	flood tide, unfiltered

April 2012 and August 2012 OU1 RFI Surface Water Sample Analytical Data
Former Hercules Plant, Brunswick, Georgia
Geosyntec Consultants

Field_ID	Sampled_Date-Time	Sample_De	Sample_De	Matrix_Ty	Sample_Ty	OriginalChemName	Result	Result_Uni	Method_Name	QA_Flag	Method_Type	Result_Typ	Sample_Dept	Result_Lable	x_coord	y_coord	Elevation
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	4-Nitroaniline	0.47	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.47 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	4-Nitrophenol	0.47	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.47 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	Benzaldehyde	0.095	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.095 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	4-Bromophenyl phenyl ether	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.11 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	Heptachlor epoxide	0.0063	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.28 - 0.28	0.0063 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	Endosulfan sulfate	0.0071	ug/L	8081B_8082A	UJ	GC Semi VOA	REG	0.28 - 0.28	0.0071 UJ	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	Caprolactam	0.12	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.12 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	2,4-Dimethylphenol	0.65	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.65 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	4-Chloroaniline	0.34	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.34 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	2,2-oxybis[1-chloropropane]	0.095	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.095 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	Phenol	0.12	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.12 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	PCB-1260	0.21	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.28 - 0.28	0.21 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	PCB-1254	0.27	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.28 - 0.28	0.27 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	PCB-1268	0.27	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.28 - 0.28	0.27 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	PCB-1221	0.29	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.28 - 0.28	0.29 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	PCB-1232	0.12	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.28 - 0.28	0.12 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	Bis(2-chloroethyl)ether	0.095	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.095 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	Bis(2-chloroethoxy)methane	0.095	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.095 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	Bis(2-ethylhexyl) phthalate	0.61	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.61 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	Di-n-octyl phthalate	0.16	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.16 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	Hexachlorobenzene	0.095	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.095 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	Anthracene	0.095	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.095 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	2,4-Dichlorophenol	0.095	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.095 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	2,4-Dinitrotoluene	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.11 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	PCB-1248	0.38	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.28 - 0.28	0.38 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	PCB-1016	0.075	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.28 - 0.28	0.075 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	Pyrene	0.095	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.095 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	Dimethyl phthalate	0.095	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.095 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	Dibenzofuran	0.095	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.095 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	3 & 4 Methylphenol	0.62	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.62 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	Atrazine	0.33	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.33 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	Benzo[g,h,i]perylene	0.095	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.095 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	Indeno[1,2,3-cd]pyrene	0.095	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.095 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	Benzo[b]fluoranthene	0.095	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.095 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	Fluoranthene	0.095	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.095 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	Benzo[k]fluoranthene	0.095	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.095 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	Acenaphthylene	0.095	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.095 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	Chrysene	0.043	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.043 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	Aldrin	0.0074	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.28 - 0.28	0.0074 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	Aldrin + Dieldrin	0.017	µg/L	ESDAT Combined		ESDAT Combined Com	REG	0.28 - 0.28	0.017	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	alpha-BHC	0.006	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.28 - 0.28	0.006 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	beta-BHC	0.007	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.28 - 0.28	0.007 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	delta-BHC	0.005	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.28 - 0.28	0.005 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	Endosulfan II	0.01	ug/L	8081B_8082A	UJ	GC Semi VOA	REG	0.28 - 0.28	0.01 UJ	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	4,4-DDT	0.01	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.28 - 0.28	0.01 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	Benzo[a]pyrene	0.095	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.095 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	alpha-Chlordane	0.0063	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.28 - 0.28	0.0063 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	gamma-Chlordane	0.0054	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.28 - 0.28	0.0054 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	2,4-Dinitrophenol	1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	1 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	4,6-Dinitro-2-methylphenol	0.12	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.12 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	PCB-1242	0.19	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.28 - 0.28	0.19 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	Endrin ketone	0.0088	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.28 - 0.28	0.0088 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	Dibenz(a,h)anthracene	0.095	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.095 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	Benzo[a]anthracene	0.095	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.095 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	Cyanide, Total	0.005	mg/L	9012A	U	General Chemistry	REG	0.28 - 0.28	0.005 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	gamma-BHC (Lindane)	0.0062	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.28 - 0.28	0.0062 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	4-Chloro-3-methylphenol	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.11 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	Dieldrin	0.0096	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.28 - 0.28	0.0096 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	2,6-Dinitrotoluene	0.12	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.12 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	N-Nitrosodi-n-propylamine	0.12	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.12 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	Hexachloroethane	0.47	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.47 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	4-Chlorophenyl phenyl ether	0.095	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.095 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	Endrin	0.01	ug/L	8081B_8082A	UJ	GC Semi VOA	REG	0.28 - 0.28	0.01 UJ	872642.297	424733.0503	

April 2012 and August 2012 OU1 RFI Surface Water Sample Analytical Data
Former Hercules Plant, Brunswick, Georgia
Geosyntec Consultants

Field_ID	Sampled_Date-Time	Sample_De	Sample_De	Matrix_Ty	Sample_Ty	OriginalChemName	Result	Result_Uni	Method_Name	QA_Flag	Method_Type	Result_Typ	Sample_Depth	Result_Lable	x_coord	y_coord	Elevation
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	Methoxychlor	0.014	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.28 - 0.28	0.014 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	4,4-DDD	0.0068	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.28 - 0.28	0.0068 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	4,4-DDE	0.0081	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.28 - 0.28	0.0081 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	Endrin aldehyde	0.017	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.28 - 0.28	0.017 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	Aluminum	0.07	mg/L	6020A	J	Metals	REG	0.28 - 0.28	0.07 J	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	Iron	0.044	mg/L	6020A	U	Metals	REG	0.28 - 0.28	0.044 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	Lead	0.0021	mg/L	6020A		Metals	REG	0.28 - 0.28	0.0021	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	Magnesium	52	mg/L	6020A		Metals	REG	0.28 - 0.28	52	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	Manganese	0.035	mg/L	6020A		Metals	REG	0.28 - 0.28	0.035	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	Mercury	0.000091	mg/L	7470A	U	Metals	REG	0.28 - 0.28	0.000091 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	Nickel	0.002	mg/L	6020A	U	Metals	REG	0.28 - 0.28	0.002 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	Potassium	9.6	mg/L	6020A		Metals	REG	0.28 - 0.28	9.6	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	Silver	0.00018	mg/L	6020A	U	Metals	REG	0.28 - 0.28	0.00018 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	Sodium	210	mg/L	6020A		Metals	REG	0.28 - 0.28	210	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	Thallium	0.00025	mg/L	6020A	U	Metals	REG	0.28 - 0.28	0.00025 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	Antimony	0.002	mg/L	6020A	U	Metals	REG	0.28 - 0.28	0.002 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	Arsenic	0.0039	mg/L	6020A		Metals	REG	0.28 - 0.28	0.0039	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	Barium	0.086	mg/L	6020A		Metals	REG	0.28 - 0.28	0.086	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	Beryllium	0.00015	mg/L	6020A	U	Metals	REG	0.28 - 0.28	0.00015 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	Cadmium	0.00013	mg/L	6020A	U	Metals	REG	0.28 - 0.28	0.00013 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	Chromium	0.0025	mg/L	6020A	U	Metals	REG	0.28 - 0.28	0.0025 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	Cobalt	0.0005	mg/L	6020A	U	Metals	REG	0.28 - 0.28	0.0005 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	Copper	0.0011	mg/L	6020A	U	Metals	REG	0.28 - 0.28	0.0011 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	Vanadium	0.0041	mg/L	6020A	J	Metals	REG	0.28 - 0.28	0.0041 J	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	Zinc	0.0084	mg/L	6020A	U	Metals	REG	0.28 - 0.28	0.0084 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	Calcium	84	mg/L	6020A		Metals	REG	0.28 - 0.28	84	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	Heptachlor	0.0074	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.28 - 0.28	0.0074 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	Hexachlorocyclopentadiene	0.47	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.47 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	Selenium	0.0011	mg/L	6020A	U	Metals	REG	0.28 - 0.28	0.0011 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	Isophorone	0.095	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.095 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	Toxaphene, Technical	0.53	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.28 - 0.28	0.53 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	Acenaphthene	0.095	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.095 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	Diethyl phthalate	0.12	ug/L	8270D_LL	J	GC/MS Semi VOA	REG	0.28 - 0.28	0.12 J	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	Di-n-butyl phthalate	0.37	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.37 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	Phenanthrene	0.095	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.095 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	Butyl benzyl phthalate	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.11 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	N-Nitrosodiphenylamine	0.35	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.35 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	Fluorene	0.095	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.095 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	Carbazole	0.095	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.095 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	Hexachlorobutadiene	0.095	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.095 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	Pentachlorophenol	0.38	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.38 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	2,4,6-Trichlorophenol	0.16	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.16 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	2-Nitroaniline	0.15	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.15 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	2-Nitrophenol	0.095	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.095 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	Naphthalene	0.095	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.095 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	2-Methylnaphthalene	0.095	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.095 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	2-Chloronaphthalene	0.095	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.095 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	3,3-Dichlorobenzidine	1.9	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	1.9 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	1,1-Biphenyl	0.095	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.095 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	2-Methylphenol	0.7	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.7 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	2-Chlorophenol	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.11 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	2,4,5-Trichlorophenol	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.11 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	Endosulfan I	0.0044	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.28 - 0.28	0.0044 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	Acetophenone	0.95	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.95 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	Nitrobenzene	0.095	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.095 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	3-Nitroaniline	0.15	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.15 U	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	DDT+DDE+DDD	0.0249	µg/L	ESDAT Combined		ESDAT Combined Con	REG	0.28 - 0.28	0.0249	872642.297	424733.0503	
SW-DCEB-01	4/4/2012	0.28	0.28	SW	Normal	Toxaphene, TAUC, Parlar 11-69	0.53	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.28 - 0.28	0.53 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	4-Nitroaniline	0.52	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.52 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	4-Nitrophenol	0.52	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.52 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Ethylbenzene	2.3	ug/L	8260B		GC/MS VOA	REG	0.28 - 0.28	2.3	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Styrene	0.11	ug/L	8260B	U	GC/MS VOA	REG	0.28 - 0.28	0.11 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Benzaldehyde	0.19	ug/L	8270D_LL	J	GC/MS Semi VOA	REG	0.28 - 0.28	0.19 J	872642.297	424733.0503	

Field_ID	Sampled_Date-Time	Sample_De	Sample_De	Matrix_Ty	Sample_Ty	OriginalChemName	Result	Result_Uni	Method_Name	QA_Flag	Method_Type	Result_Typ	Sample_Depth	Result_Lable	x_coord	y_coord	Elevation
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	cis-1,3-Dichloropropene	0.11	ug/L	8260B	U	GC/MS VOA	REG	0.28 - 0.28	0.11 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	trans-1,3-Dichloropropene	0.21	ug/L	8260B	U	GC/MS VOA	REG	0.28 - 0.28	0.21 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	4-Bromophenyl phenyl ether	0.12	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.12 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Heptachlor epoxide	0.0061	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.28 - 0.28	0.0061 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Endosulfan sulfate	0.007	ug/L	8081B_8082A	UJ	GC Semi VOA	REG	0.28 - 0.28	0.007 UJ	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Caprolactam	0.13	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.13 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	2,4-Dimethylphenol	0.71	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.71 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	1,4-Dichlorobenzene	0.28	ug/L	8260B	U	GC/MS VOA	REG	0.28 - 0.28	0.28 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	4-Chloroaniline	0.37	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.37 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	1,2-Dibromoethane	0.25	ug/L	8260B	U	GC/MS VOA	REG	0.28 - 0.28	0.25 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	1,2-Dichloroethane	0.1	ug/L	8260B	U	GC/MS VOA	REG	0.28 - 0.28	0.1 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	4-Methyl-2-pentanone	1	ug/L	8260B	U	GC/MS VOA	REG	0.28 - 0.28	1 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	2,2-oxybis[1-chloropropane]	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.1 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Methylcyclohexane	0.1	ug/L	8260B	U	GC/MS VOA	REG	0.28 - 0.28	0.1 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Toluene	0.33	ug/L	8260B	J	GC/MS VOA	REG	0.28 - 0.28	0.33 J	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Chlorobenzene	0.78	ug/L	8260B	J	GC/MS VOA	REG	0.28 - 0.28	0.78 J	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Phenol	0.13	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.13 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Cyclohexane	0.25	ug/L	8260B	U	GC/MS VOA	REG	0.28 - 0.28	0.25 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	PCB-1260	0.2	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.28 - 0.28	0.2 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	PCB-1254	0.27	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.28 - 0.28	0.27 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	PCB-1268	0.27	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.28 - 0.28	0.27 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	PCB-1221	0.29	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.28 - 0.28	0.29 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	PCB-1232	0.11	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.28 - 0.28	0.11 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Bis(2-chloroethyl)ether	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.1 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Bis(2-chloroethoxy)methane	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.1 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Bis(2-ethylhexyl) phthalate	0.66	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.66 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Di-n-octyl phthalate	0.18	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.18 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Hexachlorobenzene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.1 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Anthracene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.1 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	1,2,4-Trichlorobenzene	0.25	ug/L	8260B	U	GC/MS VOA	REG	0.28 - 0.28	0.25 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	2,4-Dichlorophenol	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.1 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	2,4-Dinitrotoluene	0.12	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.12 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Dibromochloromethane	0.1	ug/L	8260B	U	GC/MS VOA	REG	0.28 - 0.28	0.1 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	PCB-1248	0.37	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.28 - 0.28	0.37 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	PCB-1016	0.073	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.28 - 0.28	0.073 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Tetrachloroethene	0.15	ug/L	8260B	U	GC/MS VOA	REG	0.28 - 0.28	0.15 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Pyrene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.1 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Dimethyl phthalate	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.1 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Dibenzofuran	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.1 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Xylenes, Total	16	ug/L	8260B		GC/MS VOA	REG	0.28 - 0.28	16	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	cis-1,2-Dichloroethene	0.15	ug/L	8260B	U	GC/MS VOA	REG	0.28 - 0.28	0.15 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	trans-1,2-Dichloroethene	0.2	ug/L	8260B	U	GC/MS VOA	REG	0.28 - 0.28	0.2 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	3 & 4 Methylphenol	0.68	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.68 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Methyl tert-butyl ether	0.2	ug/L	8260B	U	GC/MS VOA	REG	0.28 - 0.28	0.2 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Atrazine	0.36	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.36 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Benzo[g,h,i]perylene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.1 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Indeno[1,2,3-cd]pyrene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.1 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Benzo[b]fluoranthene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.1 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Fluoranthene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.1 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Benzo[k]fluoranthene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.1 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Acenaphthylene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.1 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Chrysene	0.046	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.046 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Aldrin	0.0072	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.28 - 0.28	0.0072 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Aldrin + Dieldrin	0.0165	µg/L	ESDAT Combined		ESDAT Combined Con	REG	0.28 - 0.28	0.0165	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	alpha-BHC	0.0058	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.28 - 0.28	0.0058 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	beta-BHC	0.0069	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.28 - 0.28	0.0069 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	delta-BHC	0.0049	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.28 - 0.28	0.0049 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Endosulfan II	0.01	ug/L	8081B_8082A	UJ	GC Semi VOA	REG	0.28 - 0.28	0.01 UJ	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	4,4-DDT	0.0099	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.28 - 0.28	0.0099 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Benzo[a]pyrene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.1 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	alpha-Chlordane	0.0061	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.28 - 0.28	0.0061 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	gamma-Chlordane	0.0052	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.28 - 0.28	0.0052 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	2,4-Dinitrophenol	1.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	1.1 U	872642.297	424733.0503	

Field_ID	Sampled_Date-Time	Sample_De	Sample_De	Matrix_Ty	Sample_Ty	OriginalChemName	Result	Result_Uni	Method_Name	QA_Flag	Method_Type	Result_Typ	Sample_Dept	Result_Lable	x_coord	y_coord	Elevation
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	4,6-Dinitro-2-methylphenol	0.13	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.13 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	PCB-1242	0.18	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.28 - 0.28	0.18 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Endrin ketone	0.0086	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.28 - 0.28	0.0086 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Dibenz(a,h)anthracene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.1 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	1,3-Dichlorobenzene	0.25	ug/L	8260B	U	GC/MS VOA	REG	0.28 - 0.28	0.25 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Carbon tetrachloride	9	ug/L	8260B		GC/MS VOA	REG	0.28 - 0.28	9	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Benzo[a]anthracene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.1 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Cyanide, Total	0.005	mg/L	9012A	U	General Chemistry	REG	0.28 - 0.28	0.005 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	gamma-BHC (Lindane)	0.006	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.28 - 0.28	0.006 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	2-Hexanone	1	ug/L	8260B	U	GC/MS VOA	REG	0.28 - 0.28	1 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	4-Chloro-3-methylphenol	0.12	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.12 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Dieldrin	0.0093	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.28 - 0.28	0.0093 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	2,6-Dinitrotoluene	0.13	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.13 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	N-Nitrosodi-n-propylamine	0.13	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.13 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Acetone	6.1	ug/L	8260B	J	GC/MS VOA	REG	0.28 - 0.28	6.1 J	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Chloroform	3.3	ug/L	8260B		GC/MS VOA	REG	0.28 - 0.28	3.3	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Hexachloroethane	0.52	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.52 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	4-Chlorophenyl phenyl ether	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.1 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Benzene	0.53	ug/L	8260B	J	GC/MS VOA	REG	0.28 - 0.28	0.53 J	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	1,1,1-Trichloroethane	0.5	ug/L	8260B	U	GC/MS VOA	REG	0.28 - 0.28	0.5 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Endrin	0.0099	ug/L	8081B_8082A	UJ	GC Semi VOA	REG	0.28 - 0.28	0.0099 UJ	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Methoxychlor	0.013	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.28 - 0.28	0.013 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	4,4-DDD	0.0067	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.28 - 0.28	0.0067 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	4,4-DDE	0.0079	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.28 - 0.28	0.0079 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Endrin aldehyde	0.016	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.28 - 0.28	0.016 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Aluminum	0.11	mg/L	6020A		Metals	REG	0.28 - 0.28	0.11	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Iron	0.17	mg/L	6020A		Metals	REG	0.28 - 0.28	0.17	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Lead	0.0005	mg/L	6020A	U	Metals	REG	0.28 - 0.28	0.0005 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Magnesium	54	mg/L	6020A		Metals	REG	0.28 - 0.28	54	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Manganese	0.037	mg/L	6020A		Metals	REG	0.28 - 0.28	0.037	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Mercury	0.000091	mg/L	7470A	U	Metals	REG	0.28 - 0.28	0.000091 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Nickel	0.002	mg/L	6020A	U	Metals	REG	0.28 - 0.28	0.002 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Potassium	10	mg/L	6020A		Metals	REG	0.28 - 0.28	10	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Silver	0.00018	mg/L	6020A	U	Metals	REG	0.28 - 0.28	0.00018 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Sodium	230	mg/L	6020A		Metals	REG	0.28 - 0.28	230	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Thallium	0.00025	mg/L	6020A	U	Metals	REG	0.28 - 0.28	0.00025 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Antimony	0.002	mg/L	6020A	U	Metals	REG	0.28 - 0.28	0.002 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Arsenic	0.0037	mg/L	6020A		Metals	REG	0.28 - 0.28	0.0037	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Barium	0.088	mg/L	6020A		Metals	REG	0.28 - 0.28	0.088	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Beryllium	0.00015	mg/L	6020A	U	Metals	REG	0.28 - 0.28	0.00015 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Cadmium	0.00013	mg/L	6020A	U	Metals	REG	0.28 - 0.28	0.00013 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Chromium	0.0025	mg/L	6020A	U	Metals	REG	0.28 - 0.28	0.0025 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Cobalt	0.0005	mg/L	6020A	U	Metals	REG	0.28 - 0.28	0.0005 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Copper	0.0012	mg/L	6020A	J	Metals	REG	0.28 - 0.28	0.0012 J	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Vanadium	0.0045	mg/L	6020A	J	Metals	REG	0.28 - 0.28	0.0045 J	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Zinc	0.0099	mg/L	6020A	J	Metals	REG	0.28 - 0.28	0.0099 J	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Calcium	84	mg/L	6020A		Metals	REG	0.28 - 0.28	84	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Bromomethane	0.8	ug/L	8260B	U	GC/MS VOA	REG	0.28 - 0.28	0.8 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Chloromethane	0.33	ug/L	8260B	U	GC/MS VOA	REG	0.28 - 0.28	0.33 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Chloroethane	1	ug/L	8260B	U	GC/MS VOA	REG	0.28 - 0.28	1 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Vinyl chloride	0.18	ug/L	8260B	U	GC/MS VOA	REG	0.28 - 0.28	0.18 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Methylene Chloride	1	ug/L	8260B	U	GC/MS VOA	REG	0.28 - 0.28	1 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Carbon disulfide	0.6	ug/L	8260B	U	GC/MS VOA	REG	0.28 - 0.28	0.6 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Bromoform	0.5	ug/L	8260B	U	GC/MS VOA	REG	0.28 - 0.28	0.5 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Bromodichloromethane	0.25	ug/L	8260B	U	GC/MS VOA	REG	0.28 - 0.28	0.25 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	1,1-Dichloroethane	0.25	ug/L	8260B	U	GC/MS VOA	REG	0.28 - 0.28	0.25 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	1,1-Dichloroethene	0.11	ug/L	8260B	U	GC/MS VOA	REG	0.28 - 0.28	0.11 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Trichlorofluoromethane	0.25	ug/L	8260B	U	GC/MS VOA	REG	0.28 - 0.28	0.25 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Dichlorodifluoromethane	0.25	ug/L	8260B	U	GC/MS VOA	REG	0.28 - 0.28	0.25 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	1,1,2-Trichloro-1,2,2-trifluoroethane	0.5	ug/L	8260B	U	GC/MS VOA	REG	0.28 - 0.28	0.5 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Heptachlor	0.0072	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.28 - 0.28	0.0072 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Hexachlorocyclopentadiene	0.52	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.52 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Selenium	0.0011	mg/L	6020A	U	Metals	REG	0.28 - 0.28	0.0011 U	872642.297	424733.0503	

Field_ID	Sampled_Date-Time	Sample_De	Sample_De	Matrix_Ty	Sample_Ty	OriginalChemName	Result	Result_Uni	Method_Name	QA_Flag	Method_Type	Result_Typ	Sample_Depth	Result_Lable	x_coord	y_coord	Elevation
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Isophorone	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.1 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	1,2-Dichloropropane	0.13	ug/L	8260B	U	GC/MS VOA	REG	0.28 - 0.28	0.13 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	2-Butanone	1	ug/L	8260B	U	GC/MS VOA	REG	0.28 - 0.28	1 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	1,1,2-Trichloroethane	0.13	ug/L	8260B	U	GC/MS VOA	REG	0.28 - 0.28	0.13 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Trichloroethene	0.13	ug/L	8260B	U	GC/MS VOA	REG	0.28 - 0.28	0.13 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Methyl acetate	0.19	ug/L	8260B	U	GC/MS VOA	REG	0.28 - 0.28	0.19 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	1,1,2,2-Tetrachloroethane	0.18	ug/L	8260B	U	GC/MS VOA	REG	0.28 - 0.28	0.18 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Toxaphene, Technical	0.51	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.28 - 0.28	0.51 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Acenaphthene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.1 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Diethyl phthalate	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.11 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Di-n-butyl phthalate	0.4	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.4 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Phenanthrene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.1 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Butyl benzyl phthalate	0.12	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.12 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	N-Nitrosodiphenylamine	0.38	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.38 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Fluorene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.1 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Carbazole	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.1 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Hexachlorobutadiene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.1 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Pentachlorophenol	0.41	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.41 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	2,4,6-Trichlorophenol	0.18	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.18 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	2-Nitroaniline	0.17	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.17 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	2-Nitrophenol	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.1 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Naphthalene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.1 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	2-Methylnaphthalene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.1 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	2-Chloronaphthalene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.1 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	3,3-Dichlorobenzidine	2.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	2.1 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	1,1-Biphenyl	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.1 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	2-Methylphenol	0.76	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.76 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	1,2-Dichlorobenzene	0.21	ug/L	8260B	U	GC/MS VOA	REG	0.28 - 0.28	0.21 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	2-Chlorophenol	0.12	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.12 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	2,4,5-Trichlorophenol	0.12	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.12 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Endosulfan I	0.0043	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.28 - 0.28	0.0043 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	1,2-Dibromo-3-Chloropropane	0.44	ug/L	8260B	U	GC/MS VOA	REG	0.28 - 0.28	0.44 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Isopropylbenzene	0.91	ug/L	8260B	J	GC/MS VOA	REG	0.28 - 0.28	0.91 J	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Acetophenone	0.39	ug/L	8270D_LL	J	GC/MS Semi VOA	REG	0.28 - 0.28	0.39 J	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Nitrobenzene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.1 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	3-Nitroaniline	0.17	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.28 - 0.28	0.17 U	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	DDT+DDE+DDD	0.0245	µg/L	ESDAT Combined		ESDAT Combined Com	REG	0.28 - 0.28	0.0245	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Total Suspended Solids	5.5	mg/L	160.2		General Chemistry	REG	0.28 - 0.28	5.5	872642.297	424733.0503	
SW-DCEB-02	4/4/2012	0.28	0.28	SW	Normal	Toxaphene, TAUC, Parlar 11-69	0.51	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.28 - 0.28	0.51 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	4-Nitroaniline	0.54	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.54 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	4-Nitrophenol	0.54	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.54 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Benzaldehyde	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.11 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	4-Bromophenyl phenyl ether	0.13	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.13 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Heptachlor epoxide	0.0061	ug/L	8081B_8082A	U	GC Semi VOA	REG	1.36 - 1.36	0.0061 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Endosulfan sulfate	0.0069	ug/L	8081B_8082A	UJ	GC Semi VOA	REG	1.36 - 1.36	0.0069 UJ	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Caprolactam	0.18	ug/L	8270D_LL	J	GC/MS Semi VOA	REG	1.36 - 1.36	0.18 J	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	2,4-Dimethylphenol	0.75	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.75 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	4-Chloroaniline	0.39	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.39 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	2,2-oxybis[1-chloropropane]	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.11 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Phenol	0.14	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.14 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	PCB-1260	0.2	ug/L	8081B_8082A	U	GC Semi VOA	REG	1.36 - 1.36	0.2 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	PCB-1254	0.27	ug/L	8081B_8082A	U	GC Semi VOA	REG	1.36 - 1.36	0.27 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	PCB-1268	0.27	ug/L	8081B_8082A	U	GC Semi VOA	REG	1.36 - 1.36	0.27 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	PCB-1221	0.29	ug/L	8081B_8082A	U	GC Semi VOA	REG	1.36 - 1.36	0.29 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	PCB-1232	0.11	ug/L	8081B_8082A	U	GC Semi VOA	REG	1.36 - 1.36	0.11 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Bis(2-chloroethyl)ether	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.11 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Bis(2-chloroethoxy)methane	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.11 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Bis(2-ethylhexyl) phthalate	0.7	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.7 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Di-n-octyl phthalate	0.18	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.18 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Hexachlorobenzene	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.11 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Anthracene	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.11 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	2,4-Dichlorophenol	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.11 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	2,4-Dinitrotoluene	0.13	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.13 U	872642.297	424733.0503	

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Former Hercules Plant, Brunswick, Georgia
Geosyntec Consultants

Field_ID	Sampled_Date-Time	Sample_De	Sample_De	Matrix_Ty	Sample_Ty	OriginalChemName	Result	Result_Uni	Method_Name	QA_Flag	Method_Type	Result_Typ	Sample_Depth	Result_Lable	x_coord	y_coord	Elevation
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	PCB-1248	0.37	ug/L	8081B_8082A	U	GC Semi VOA	REG	1.36 - 1.36	0.37 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	PCB-1016	0.072	ug/L	8081B_8082A	U	GC Semi VOA	REG	1.36 - 1.36	0.072 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Pyrene	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.11 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Dimethyl phthalate	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.11 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Dibenzofuran	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.11 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Parlar 26	0.0025	ug/L	8276	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.0025 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Parlar 62	0.025	ug/L	8276	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.025 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	3 & 4 Methylphenol	0.72	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.72 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Parlar 41	0.0025	ug/L	8276	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.0025 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Parlar 44	0.0025	ug/L	8276	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.0025 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Parlar 40	0.0025	ug/L	8276	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.0025 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Atrazine	0.38	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.38 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Benzo[g,h,i]perylene	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.11 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Indeno[1,2,3-cd]pyrene	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.11 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Benzo[b]fluoranthene	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.11 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Fluoranthene	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.11 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Benzo[k]fluoranthene	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.11 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Acenaphthylene	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.11 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Chrysene	0.049	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.049 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Aldrin	0.0071	ug/L	8081B_8082A	U	GC Semi VOA	REG	1.36 - 1.36	0.0071 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Aldrin + Dieldrin	0.0164	µg/L	ESDAT Combined		ESDAT Combined Con	REG	1.36 - 1.36	0.0164	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	alpha-BHC	0.0058	ug/L	8081B_8082A	U	GC Semi VOA	REG	1.36 - 1.36	0.0058 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	beta-BHC	0.0068	ug/L	8081B_8082A	U	GC Semi VOA	REG	1.36 - 1.36	0.0068 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	delta-BHC	0.0049	ug/L	8081B_8082A	U	GC Semi VOA	REG	1.36 - 1.36	0.0049 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Endosulfan II	0.01	ug/L	8081B_8082A	UJ	GC Semi VOA	REG	1.36 - 1.36	0.01 UJ	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	4,4-DDT	0.0099	ug/L	8081B_8082A	U	GC Semi VOA	REG	1.36 - 1.36	0.0099 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Benzo[a]pyrene	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.11 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	alpha-Chlordane	0.0061	ug/L	8081B_8082A	U	GC Semi VOA	REG	1.36 - 1.36	0.0061 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	gamma-Chlordane	0.0052	ug/L	8081B_8082A	U	GC Semi VOA	REG	1.36 - 1.36	0.0052 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	2,4-Dinitrophenol	1.2	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	1.2 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	4,6-Dinitro-2-methylphenol	0.14	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.14 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	PCB-1242	0.18	ug/L	8081B_8082A	U	GC Semi VOA	REG	1.36 - 1.36	0.18 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Endrin ketone	0.0086	ug/L	8081B_8082A	U	GC Semi VOA	REG	1.36 - 1.36	0.0086 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Dibenz(a,h)anthracene	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.11 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Benzo[a]anthracene	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.11 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Cyanide, Total	0.006	mg/L	9012A	J	General Chemistry	REG	1.36 - 1.36	0.006 J	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Hx-Sed	0.006	ug/L	8276		GC/MS Semi VOA	REG	1.36 - 1.36	0.006	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	gamma-BHC (Lindane)	0.006	ug/L	8081B_8082A	U	GC Semi VOA	REG	1.36 - 1.36	0.006 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	4-Chloro-3-methylphenol	0.13	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.13 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Dieldrin	0.0093	ug/L	8081B_8082A	U	GC Semi VOA	REG	1.36 - 1.36	0.0093 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	2,6-Dinitrotoluene	0.14	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.14 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	N-Nitrosodi-n-propylamine	0.14	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.14 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Parlar 50	0.0025	ug/L	8276	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.0025 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Hexachloroethane	0.54	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.54 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	4-Chlorophenyl phenyl ether	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.11 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Hp-Sed	0.0028	ug/L	8276		GC/MS Semi VOA	REG	1.36 - 1.36	0.0028	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Endrin	0.0099	ug/L	8081B_8082A	UJ	GC Semi VOA	REG	1.36 - 1.36	0.0099 UJ	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Methoxychlor	0.013	ug/L	8081B_8082A	U	GC Semi VOA	REG	1.36 - 1.36	0.013 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	4,4-DDD	0.0066	ug/L	8081B_8082A	U	GC Semi VOA	REG	1.36 - 1.36	0.0066 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	4,4-DDE	0.0079	ug/L	8081B_8082A	U	GC Semi VOA	REG	1.36 - 1.36	0.0079 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Endrin aldehyde	0.016	ug/L	8081B_8082A	U	GC Semi VOA	REG	1.36 - 1.36	0.016 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Aluminum	0.05	mg/L	6020A	U	Metals	REG	1.36 - 1.36	0.05 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Iron	0.044	mg/L	6020A	U	Metals	REG	1.36 - 1.36	0.044 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Lead	0.0005	mg/L	6020A	U	Metals	REG	1.36 - 1.36	0.0005 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Magnesium	1100	mg/L	6020A		Metals	REG	1.36 - 1.36	1100	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Manganese	0.099	mg/L	6020A		Metals	REG	1.36 - 1.36	0.099	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Mercury	0.000091	mg/L	7470A	U	Metals	REG	1.36 - 1.36	0.000091 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Nickel	0.002	mg/L	6020A	U	Metals	REG	1.36 - 1.36	0.002 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Potassium	340	mg/L	6020A		Metals	REG	1.36 - 1.36	340	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Silver	0.00036	mg/L	6020A	U	Metals	REG	1.36 - 1.36	0.00036 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Sodium	8200	mg/L	6020A		Metals	REG	1.36 - 1.36	8200	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Thallium	0.00025	mg/L	6020A	U	Metals	REG	1.36 - 1.36	0.00025 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Antimony	0.004	mg/L	6020A	U	Metals	REG	1.36 - 1.36	0.004 U	872642.297	424733.0503	

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Field_ID	Sampled_Date-Time	Sample_De	Sample_De	Matrix_Ty	Sample_Ty	OriginalChemName	Result	Result_Uni	Method_Name	QA_Flag	Method_Type	Result_Typ	Sample_Depth	Result_Lable	x_coord	y_coord	Elevation
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Arsenic	0.0025	mg/L	6020A		Metals	REG	1.36 - 1.36	0.0025	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Barium	0.028	mg/L	6020A		Metals	REG	1.36 - 1.36	0.028	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Beryllium	0.0003	mg/L	6020A	U	Metals	REG	1.36 - 1.36	0.0003 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Cadmium	0.00026	mg/L	6020A	U	Metals	REG	1.36 - 1.36	0.00026 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Chromium	0.0025	mg/L	6020A	U	Metals	REG	1.36 - 1.36	0.0025 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Cobalt	0.0014	mg/L	6020A		Metals	REG	1.36 - 1.36	0.0014	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Copper	0.0011	mg/L	6020A	U	Metals	REG	1.36 - 1.36	0.0011 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Vanadium	0.0039	mg/L	6020A	J	Metals	REG	1.36 - 1.36	0.0039 J	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Zinc	0.014	mg/L	6020A	J	Metals	REG	1.36 - 1.36	0.014 J	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Calcium	310	mg/L	6020A		Metals	REG	1.36 - 1.36	310	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Heptachlor	0.0071	ug/L	8081B_8082A	U	GC Semi VOA	REG	1.36 - 1.36	0.0071 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Hexachlorocyclopentadiene	0.54	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.54 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Selenium	0.0022	mg/L	6020A	U	Metals	REG	1.36 - 1.36	0.0022 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Isophorone	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.11 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Toxaphene, Technical	0.51	ug/L	8081B_8082A	U	GC Semi VOA	REG	1.36 - 1.36	0.51 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Toxaphene, 8276	0.51	ug/L	8276	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.51 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Acenaphthene	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.11 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Diethyl phthalate	0.12	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.12 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Di-n-butyl phthalate	0.42	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.42 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Phenanthrene	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.11 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Butyl benzyl phthalate	0.13	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.13 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	N-Nitrosodiphenylamine	0.4	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.4 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Fluorene	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.11 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Carbazole	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.11 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Hexachlorobutadiene	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.11 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Pentachlorophenol	0.44	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.44 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	2,4,6-Trichlorophenol	0.18	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.18 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	2-Nitroaniline	0.17	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.17 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	2-Nitrophenol	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.11 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Naphthalene	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.11 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	2-Methylnaphthalene	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.11 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	2-Chloronaphthalene	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.11 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	3,3-Dichlorobenzidine	2.2	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	2.2 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	1,1-Biphenyl	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.11 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	2-Methylphenol	0.8	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.8 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	2-Chlorophenol	0.13	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.13 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	2,4,5-Trichlorophenol	0.13	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.13 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Endosulfan I	0.0043	ug/L	8081B_8082A	U	GC Semi VOA	REG	1.36 - 1.36	0.0043 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Acetophenone	1.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	1.1 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Nitrobenzene	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.11 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	3-Nitroaniline	0.17	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.17 U	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	DDT+DDE+DDD	0.0244	µg/L	ESDAT Combined		ESDAT Combined Con	REG	1.36 - 1.36	0.0244	872642.297	424733.0503	
SW-DCFL-01	4/4/2012	1.36	1.36	SW	Normal	Toxaphene, TAUC, Parlar 11-69	0.51	ug/L	8081B_8082A	U	GC Semi VOA	REG	1.36 - 1.36	0.51 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	4-Nitroaniline	0.51	ug/L	8270D_LL	R	GC/MS Semi VOA	REG	1.36 - 1.36	0.51 R	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	4-Nitrophenol	0.51	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.51 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Ethylbenzene	0.11	ug/L	8260B	U	GC/MS VOA	REG	1.36 - 1.36	0.11 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Styrene	0.11	ug/L	8260B	U	GC/MS VOA	REG	1.36 - 1.36	0.11 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Benzaldehyde	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.1 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	cis-1,3-Dichloropropene	0.11	ug/L	8260B	U	GC/MS VOA	REG	1.36 - 1.36	0.11 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	trans-1,3-Dichloropropene	0.21	ug/L	8260B	U	GC/MS VOA	REG	1.36 - 1.36	0.21 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	4-Bromophenyl phenyl ether	0.12	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.12 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Heptachlor epoxide	0.0057	ug/L	8081B_8082A	U	GC Semi VOA	REG	1.36 - 1.36	0.0057 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Endosulfan sulfate	0.0065	ug/L	8081B_8082A	UJ	GC Semi VOA	REG	1.36 - 1.36	0.0065 UJ	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Caprolactam	0.13	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.13 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	2,4-Dimethylphenol	0.71	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.71 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	1,4-Dichlorobenzene	0.28	ug/L	8260B	U	GC/MS VOA	REG	1.36 - 1.36	0.28 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	4-Chloroaniline	0.37	ug/L	8270D_LL	R	GC/MS Semi VOA	REG	1.36 - 1.36	0.37 R	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	1,2-Dibromoethane	0.25	ug/L	8260B	U	GC/MS VOA	REG	1.36 - 1.36	0.25 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	1,2-Dichloroethane	0.1	ug/L	8260B	U	GC/MS VOA	REG	1.36 - 1.36	0.1 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	4-Methyl-2-pentanone	1	ug/L	8260B	U	GC/MS VOA	REG	1.36 - 1.36	1 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	2,2-oxybis[1-chloropropane]	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.1 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Methylcyclohexane	0.1	ug/L	8260B	U	GC/MS VOA	REG	1.36 - 1.36	0.1 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Toluene	0.33	ug/L	8260B	U	GC/MS VOA	REG	1.36 - 1.36	0.33 U	872642.297	424733.0503	

Field_ID	Sampled_Date-Time	Sample_De	Sample_De	Matrix_Ty	Sample_Ty	OriginalChemName	Result	Result_Uni	Method_Name	QA_Flag	Method_Type	Result_Typ	Sample_Dept	Result_Lable	x_coord	y_coord	Elevation
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Chlorobenzene	0.25	ug/L	8260B	U	GC/MS VOA	REG	1.36 - 1.36	0.25 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Phenol	0.13	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.13 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Cyclohexane	0.25	ug/L	8260B	U	GC/MS VOA	REG	1.36 - 1.36	0.25 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	PCB-1260	0.19	ug/L	8081B_8082A	U	GC Semi VOA	REG	1.36 - 1.36	0.19 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	PCB-1254	0.25	ug/L	8081B_8082A	U	GC Semi VOA	REG	1.36 - 1.36	0.25 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	PCB-1268	0.25	ug/L	8081B_8082A	U	GC Semi VOA	REG	1.36 - 1.36	0.25 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	PCB-1221	0.27	ug/L	8081B_8082A	U	GC Semi VOA	REG	1.36 - 1.36	0.27 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	PCB-1232	0.1	ug/L	8081B_8082A	U	GC Semi VOA	REG	1.36 - 1.36	0.1 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Bis(2-chloroethyl)ether	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.1 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Bis(2-chloroethoxy)methane	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.1 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Bis(2-ethylhexyl) phthalate	0.66	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.66 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Di-n-octyl phthalate	0.17	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.17 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Hexachlorobenzene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.1 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Anthracene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.1 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	1,2,4-Trichlorobenzene	0.25	ug/L	8260B	U	GC/MS VOA	REG	1.36 - 1.36	0.25 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	2,4-Dichlorophenol	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.1 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	2,4-Dinitrotoluene	0.12	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.12 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Dibromochloromethane	0.1	ug/L	8260B	UJ	GC/MS VOA	REG	1.36 - 1.36	0.1 UJ	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	PCB-1248	0.34	ug/L	8081B_8082A	U	GC Semi VOA	REG	1.36 - 1.36	0.34 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	PCB-1016	0.068	ug/L	8081B_8082A	U	GC Semi VOA	REG	1.36 - 1.36	0.068 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Tetrachloroethene	0.15	ug/L	8260B	U	GC/MS VOA	REG	1.36 - 1.36	0.15 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Pyrene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.1 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Dimethyl phthalate	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.1 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Dibenzofuran	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.1 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Xylenes, Total	0.2	ug/L	8260B	U	GC/MS VOA	REG	1.36 - 1.36	0.2 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Parlar 26	0.0026	ug/L	8276	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.0026 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Parlar 62	0.026	ug/L	8276	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.026 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	cis-1,2-Dichloroethene	0.15	ug/L	8260B	U	GC/MS VOA	REG	1.36 - 1.36	0.15 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	trans-1,2-Dichloroethene	0.2	ug/L	8260B	U	GC/MS VOA	REG	1.36 - 1.36	0.2 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	3 & 4 Methylphenol	0.68	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.68 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Methyl tert-butyl ether	0.2	ug/L	8260B	U	GC/MS VOA	REG	1.36 - 1.36	0.2 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Parlar 41	0.0026	ug/L	8276	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.0026 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Parlar 44	0.0026	ug/L	8276	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.0026 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Parlar 40	0.0026	ug/L	8276	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.0026 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Atrazine	0.36	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.36 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Benzo[g,h,i]perylene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.1 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Indeno[1,2,3-cd]pyrene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.1 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Benzo[b]fluoranthene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.1 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Fluoranthene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.1 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Benzo[k]fluoranthene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.1 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Acenaphthylene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.1 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Chrysene	0.046	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.046 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Aldrin	0.0067	ug/L	8081B_8082A	U	GC Semi VOA	REG	1.36 - 1.36	0.0067 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Aldrin + Dieldrin	0.0154	µg/L	ESDAT Combined		ESDAT Combined Con	REG	1.36 - 1.36	0.0154	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	alpha-BHC	0.0054	ug/L	8081B_8082A	U	GC Semi VOA	REG	1.36 - 1.36	0.0054 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	beta-BHC	0.0064	ug/L	8081B_8082A	U	GC Semi VOA	REG	1.36 - 1.36	0.0064 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	delta-BHC	0.0046	ug/L	8081B_8082A	U	GC Semi VOA	REG	1.36 - 1.36	0.0046 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Endosulfan II	0.0093	ug/L	8081B_8082A	UJ	GC Semi VOA	REG	1.36 - 1.36	0.0093 UJ	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	4,4-DDT	0.0092	ug/L	8081B_8082A	U	GC Semi VOA	REG	1.36 - 1.36	0.0092 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Benzo[a]pyrene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.1 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	alpha-Chlordane	0.0057	ug/L	8081B_8082A	UJ	GC Semi VOA	REG	1.36 - 1.36	0.0057 UJ	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	gamma-Chlordane	0.0049	ug/L	8081B_8082A	U	GC Semi VOA	REG	1.36 - 1.36	0.0049 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	2,4-Dinitrophenol	1.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	1.1 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	4,6-Dinitro-2-methylphenol	0.13	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.13 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	PCB-1242	0.17	ug/L	8081B_8082A	U	GC Semi VOA	REG	1.36 - 1.36	0.17 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Endrin ketone	0.008	ug/L	8081B_8082A	U	GC Semi VOA	REG	1.36 - 1.36	0.008 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Dibenz(a,h)anthracene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.1 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	1,3-Dichlorobenzene	0.25	ug/L	8260B	U	GC/MS VOA	REG	1.36 - 1.36	0.25 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Carbon tetrachloride	0.5	ug/L	8260B	UJ	GC/MS VOA	REG	1.36 - 1.36	0.5 UJ	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Benzo[a]anthracene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.1 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Cyanide, Total	0.005	mg/L	9012A	U	General Chemistry	REG	1.36 - 1.36	0.005 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Hx-Sed	0.0096	ug/L	8276		GC/MS Semi VOA	REG	1.36 - 1.36	0.0096	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	gamma-BHC (Lindane)	0.0056	ug/L	8081B_8082A	U	GC Semi VOA	REG	1.36 - 1.36	0.0056 U	872642.297	424733.0503	

Field_ID	Sampled_Date-Time	Sample_De	Sample_De	Matrix_Ty	Sample_Ty	OriginalChemName	Result	Result_Uni	Method_Name	QA_Flag	Method_Type	Result_Typ	Sample_Dept	Result_Lable	x_coord	y_coord	Elevation
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	2-Hexanone	1	ug/L	8260B	U	GC/MS VOA	REG	1.36 - 1.36	1 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	4-Chloro-3-methylphenol	0.12	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.12 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Dieldrin	0.0087	ug/L	8081B_8082A	UJ	GC Semi VOA	REG	1.36 - 1.36	0.0087 UJ	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	2,6-Dinitrotoluene	0.13	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.13 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	N-Nitrosodi-n-propylamine	0.13	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.13 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Parlar 50	0.0026	ug/L	8276	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.0026 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Acetone	5	ug/L	8260B	U	GC/MS VOA	REG	1.36 - 1.36	5 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Chloroform	0.14	ug/L	8260B	U	GC/MS VOA	REG	1.36 - 1.36	0.14 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Hexachloroethane	0.51	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.51 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	4-Chlorophenyl phenyl ether	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.1 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Hp-Sed	0.0066	ug/L	8276		GC/MS Semi VOA	REG	1.36 - 1.36	0.0066	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Benzene	0.25	ug/L	8260B	U	GC/MS VOA	REG	1.36 - 1.36	0.25 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	1,1,1-Trichloroethane	0.5	ug/L	8260B	U	GC/MS VOA	REG	1.36 - 1.36	0.5 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Endrin	0.0092	ug/L	8081B_8082A	UJ	GC Semi VOA	REG	1.36 - 1.36	0.0092 UJ	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Methoxychlor	0.012	ug/L	8081B_8082A	U	GC Semi VOA	REG	1.36 - 1.36	0.012 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	4,4-DDD	0.0062	ug/L	8081B_8082A	U	GC Semi VOA	REG	1.36 - 1.36	0.0062 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	4,4-DDE	0.0073	ug/L	8081B_8082A	UJ	GC Semi VOA	REG	1.36 - 1.36	0.0073 UJ	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Endrin aldehyde	0.015	ug/L	8081B_8082A	U	GC Semi VOA	REG	1.36 - 1.36	0.015 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Aluminum	0.89	mg/L	6020A		Metals	REG	1.36 - 1.36	0.89	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Iron	0.54	mg/L	6020A		Metals	REG	1.36 - 1.36	0.54	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Lead	0.0005	mg/L	6020A	U	Metals	REG	1.36 - 1.36	0.0005 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Magnesium	1100	mg/L	6020A		Metals	REG	1.36 - 1.36	1100	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Manganese	0.14	mg/L	6020A		Metals	REG	1.36 - 1.36	0.14	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Mercury	0.000091	mg/L	7470A	U	Metals	REG	1.36 - 1.36	0.000091 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Nickel	0.004	mg/L	6020A	U	Metals	REG	1.36 - 1.36	0.004 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Potassium	370	mg/L	6020A		Metals	REG	1.36 - 1.36	370	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Silver	0.00036	mg/L	6020A	U	Metals	REG	1.36 - 1.36	0.00036 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Sodium	8300	mg/L	6020A		Metals	REG	1.36 - 1.36	8300	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Thallium	0.00025	mg/L	6020A	U	Metals	REG	1.36 - 1.36	0.00025 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Antimony	0.004	mg/L	6020A	U	Metals	REG	1.36 - 1.36	0.004 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Arsenic	0.0031	mg/L	6020A	J	Metals	REG	1.36 - 1.36	0.0031 J	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Barium	0.032	mg/L	6020A		Metals	REG	1.36 - 1.36	0.032	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Beryllium	0.00015	mg/L	6020A	U	Metals	REG	1.36 - 1.36	0.00015 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Cadmium	0.00026	mg/L	6020A	U	Metals	REG	1.36 - 1.36	0.00026 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Chromium	0.005	mg/L	6020A	U	Metals	REG	1.36 - 1.36	0.005 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Cobalt	0.0012	mg/L	6020A		Metals	REG	1.36 - 1.36	0.0012	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Copper	0.0022	mg/L	6020A	U	Metals	REG	1.36 - 1.36	0.0022 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Vanadium	0.0064	mg/L	6020A	U	Metals	REG	1.36 - 1.36	0.0064 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Zinc	0.017	mg/L	6020A	U	Metals	REG	1.36 - 1.36	0.017 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Calcium	320	mg/L	6020A		Metals	REG	1.36 - 1.36	320	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Bromomethane	0.8	ug/L	8260B	U	GC/MS VOA	REG	1.36 - 1.36	0.8 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Chloromethane	0.33	ug/L	8260B	U	GC/MS VOA	REG	1.36 - 1.36	0.33 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Chloroethane	1	ug/L	8260B	U	GC/MS VOA	REG	1.36 - 1.36	1 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Vinyl chloride	0.18	ug/L	8260B	U	GC/MS VOA	REG	1.36 - 1.36	0.18 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Methylene Chloride	1	ug/L	8260B	U	GC/MS VOA	REG	1.36 - 1.36	1 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Carbon disulfide	0.6	ug/L	8260B	U	GC/MS VOA	REG	1.36 - 1.36	0.6 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Bromoform	0.5	ug/L	8260B	UJ	GC/MS VOA	REG	1.36 - 1.36	0.5 UJ	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Bromodichloromethane	0.25	ug/L	8260B	U	GC/MS VOA	REG	1.36 - 1.36	0.25 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	1,1-Dichloroethane	0.25	ug/L	8260B	U	GC/MS VOA	REG	1.36 - 1.36	0.25 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	1,1-Dichloroethene	0.11	ug/L	8260B	U	GC/MS VOA	REG	1.36 - 1.36	0.11 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Trichlorofluoromethane	0.25	ug/L	8260B	U	GC/MS VOA	REG	1.36 - 1.36	0.25 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Dichlorodifluoromethane	0.25	ug/L	8260B	U	GC/MS VOA	REG	1.36 - 1.36	0.25 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	1,1,2-Trichloro-1,2,2-trifluoroethane	0.5	ug/L	8260B	U	GC/MS VOA	REG	1.36 - 1.36	0.5 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Heptachlor	0.0067	ug/L	8081B_8082A	U	GC Semi VOA	REG	1.36 - 1.36	0.0067 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Hexachlorocyclopentadiene	0.51	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.51 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Selenium	0.0022	mg/L	6020A	U	Metals	REG	1.36 - 1.36	0.0022 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Isophorone	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.1 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	1,2-Dichloropropane	0.13	ug/L	8260B	U	GC/MS VOA	REG	1.36 - 1.36	0.13 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	2-Butanone	1	ug/L	8260B	U	GC/MS VOA	REG	1.36 - 1.36	1 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	1,1,2-Trichloroethane	0.13	ug/L	8260B	U	GC/MS VOA	REG	1.36 - 1.36	0.13 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Trichloroethene	0.13	ug/L	8260B	U	GC/MS VOA	REG	1.36 - 1.36	0.13 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Methyl acetate	0.19	ug/L	8260B	U	GC/MS VOA	REG	1.36 - 1.36	0.19 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	1,1,2,2-Tetrachloroethane	0.18	ug/L	8260B	U	GC/MS VOA	REG	1.36 - 1.36	0.18 U	872642.297	424733.0503	

April 2012 and August 2012 OU1 RFI Surface Water Sample Analytical Data
Former Hercules Plant, Brunswick, Georgia
Geosyntec Consultants

Field_ID	Sampled_Date-Time	Sample_De	Sample_De	Matrix_Ty	Sample_Ty	OriginalChemName	Result	Result_Uni	Method_Name	QA_Flag	Method_Type	Result_Typ	Sample_Depth	Result_Lable	x_coord	y_coord	Elevation
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Toxaphene, Technical	0.48	ug/L	8081B_8082A	U	GC Semi VOA	REG	1.36 - 1.36	0.48 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Toxaphene, 8276	0.48	ug/L	8276	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.48 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Acenaphthene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.1 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Diethyl phthalate	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.11 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Di-n-butyl phthalate	0.4	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.4 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Phenanthrene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.1 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Butyl benzyl phthalate	0.12	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.12 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	N-Nitrosodiphenylamine	0.38	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.38 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Fluorene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.1 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Carbazole	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.1 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Hexachlorobutadiene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.1 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Pentachlorophenol	0.41	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.41 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	2,4,6-Trichlorophenol	0.17	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.17 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	2-Nitroaniline	0.16	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.16 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	2-Nitrophenol	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.1 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Naphthalene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.1 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	2-Methylnaphthalene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.1 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	2-Chloronaphthalene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.1 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	3,3-Dichlorobenzidine	2.1	ug/L	8270D_LL	R	GC/MS Semi VOA	REG	1.36 - 1.36	2.1 R	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	1,1-Biphenyl	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.1 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	2-Methylphenol	0.76	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.76 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	1,2-Dichlorobenzene	0.21	ug/L	8260B	U	GC/MS VOA	REG	1.36 - 1.36	0.21 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	2-Chlorophenol	0.12	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.12 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	2,4,5-Trichlorophenol	0.12	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.12 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Endosulfan I	0.004	ug/L	8081B_8082A	U	GC Semi VOA	REG	1.36 - 1.36	0.004 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	1,2-Dibromo-3-Chloropropane	0.44	ug/L	8260B	UJ	GC/MS VOA	REG	1.36 - 1.36	0.44 UJ	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Isopropylbenzene	0.1	ug/L	8260B	U	GC/MS VOA	REG	1.36 - 1.36	0.1 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Acetophenone	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.1 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Nitrobenzene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	1.36 - 1.36	0.1 U	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	3-Nitroaniline	0.16	ug/L	8270D_LL	R	GC/MS Semi VOA	REG	1.36 - 1.36	0.16 R	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	DDT+DDE+DDD	0.0227	µg/L	ESDAT Combined		ESDAT Combined Com	REG	1.36 - 1.36	0.0227	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Total Suspended Solids	30	mg/L	160.2		General Chemistry	REG	1.36 - 1.36	30	872642.297	424733.0503	
SW-DCFL-02	4/4/2012	1.36	1.36	SW	Normal	Toxaphene, TAUC, Parlar 11-69	0.48	ug/L	8081B_8082A	U	GC Semi VOA	REG	1.36 - 1.36	0.48 U	872642.297	424733.0503	
SW-DCSH-05	5/4/2012	1.4	1.4	SW	Normal	Total Suspended Solids	24	mg/L	160.2		General Chemistry	REG	1.4 - 1.4	24	872642.297	424733.0503	
SW-DCSL-06	4/4/2012	0.304	0.304	SW	Normal	Total Suspended Solids	5	mg/L	160.2	U	General Chemistry	REG	0.304 - 0.304	5 U	872642.297	424733.0503	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	4-Nitroaniline	0.51	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.51 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	4-Nitrophenol	0.51	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.51 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Benzaldehyde	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.1 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	4-Bromophenyl phenyl ether	0.12	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.12 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Heptachlor epoxide	0.0061	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.86 - 0.86	0.0061 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Endosulfan sulfate	0.0069	ug/L	8081B_8082A	UJ	GC Semi VOA	REG	0.86 - 0.86	0.0069 UJ	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Caprolactam	0.25	ug/L	8270D_LL	J	GC/MS Semi VOA	REG	0.86 - 0.86	0.25 J	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	2,4-Dimethylphenol	0.71	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.71 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	4-Chloroaniline	0.37	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.37 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	2,2-oxybis[1-chloropropane]	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.1 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Phenol	0.13	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.13 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	PCB-1260	0.2	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.86 - 0.86	0.2 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	PCB-1254	0.26	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.86 - 0.86	0.26 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	PCB-1268	0.26	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.86 - 0.86	0.26 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	PCB-1221	0.28	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.86 - 0.86	0.28 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	PCB-1232	0.11	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.86 - 0.86	0.11 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Bis(2-chloroethyl)ether	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.1 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Bis(2-chloroethoxy)methane	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.1 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Bis(2-ethylhexyl) phthalate	0.66	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.66 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Di-n-octyl phthalate	0.17	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.17 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Hexachlorobenzene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.1 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Anthracene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.1 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	2,4-Dichlorophenol	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.1 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	2,4-Dinitrotoluene	0.12	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.12 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	PCB-1248	0.36	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.86 - 0.86	0.36 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	PCB-1016	0.072	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.86 - 0.86	0.072 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Pyrene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.1 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Dimethyl phthalate	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.1 U	873443.756	424825.7808	

Field_ID	Sampled_Date-Time	Sample_De	Sample_De	Matrix_Ty	Sample_Ty	OriginalChemName	Result	Result_Uni	Method_Name	QA_Flag	Method_Type	Result_Typ	Sample_Depth	Result_Lable	x_coord	y_coord	Elevation
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Dibenzofuran	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.1 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Parlar 26	0.0024	ug/L	8276	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.0024 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Parlar 62	0.024	ug/L	8276	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.024 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	3 & 4 Methylphenol	0.68	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.68 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Parlar 41	0.0024	ug/L	8276	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.0024 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Parlar 44	0.0024	ug/L	8276	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.0024 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Parlar 40	0.0024	ug/L	8276	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.0024 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Atrazine	0.36	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.36 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Benzo[g,h,i]perylene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.1 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Indeno[1,2,3-cd]pyrene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.1 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Benzo[b]fluoranthene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.1 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Fluoranthene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.1 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Benzo[k]fluoranthene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.1 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Acenaphthylene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.1 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Chrysene	0.046	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.046 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Aldrin	0.0071	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.86 - 0.86	0.0071 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Aldrin + Dieldrin	0.0163	µg/L	ESDAT Combined		ESDAT Combined Con	REG	0.86 - 0.86	0.0163	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	alpha-BHC	0.0058	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.86 - 0.86	0.0058 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	beta-BHC	0.0068	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.86 - 0.86	0.0068 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	delta-BHC	0.0049	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.86 - 0.86	0.0049 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Endosulfan II	0.0099	ug/L	8081B_8082A	UJ	GC Semi VOA	REG	0.86 - 0.86	0.0099 UJ	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	4,4-DDT	0.0098	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.86 - 0.86	0.0098 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Benzo[a]pyrene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.1 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	alpha-Chlordane	0.0061	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.86 - 0.86	0.0061 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	gamma-Chlordane	0.0052	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.86 - 0.86	0.0052 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	2,4-Dinitrophenol	1.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	1.1 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	4,6-Dinitro-2-methylphenol	0.13	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.13 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	PCB-1242	0.18	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.86 - 0.86	0.18 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Endrin ketone	0.0085	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.86 - 0.86	0.0085 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Dibenz(a,h)anthracene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.1 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Benzo[a]anthracene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.1 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Cyanide, Total	0.0062	mg/L	9012A	J	General Chemistry	REG	0.86 - 0.86	0.0062 J	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Hx-Sed	0.0083	ug/L	8276		GC/MS Semi VOA	REG	0.86 - 0.86	0.0083	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	gamma-BHC (Lindane)	0.006	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.86 - 0.86	0.006 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	4-Chloro-3-methylphenol	0.12	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.12 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Dieldrin	0.0092	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.86 - 0.86	0.0092 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	2,6-Dinitrotoluene	0.13	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.13 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	N-Nitrosodi-n-propylamine	0.13	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.13 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Parlar 50	0.0024	ug/L	8276	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.0024 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Hexachloroethane	0.51	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.51 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	4-Chlorophenyl phenyl ether	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.1 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Hp-Sed	0.004	ug/L	8276		GC/MS Semi VOA	REG	0.86 - 0.86	0.004	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Endrin	0.0098	ug/L	8081B_8082A	UJ	GC Semi VOA	REG	0.86 - 0.86	0.0098 UJ	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Methoxychlor	0.013	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.86 - 0.86	0.013 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	4,4-DDD	0.0066	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.86 - 0.86	0.0066 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	4,4-DDE	0.0078	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.86 - 0.86	0.0078 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Endrin aldehyde	0.016	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.86 - 0.86	0.016 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Aluminum	0.05	mg/L	6020A	U	Metals	REG	0.86 - 0.86	0.05 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Iron	0.044	mg/L	6020A	U	Metals	REG	0.86 - 0.86	0.044 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Lead	0.0005	mg/L	6020A	U	Metals	REG	0.86 - 0.86	0.0005 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Magnesium	980	mg/L	6020A		Metals	REG	0.86 - 0.86	980	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Manganese	0.095	mg/L	6020A		Metals	REG	0.86 - 0.86	0.095	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Mercury	0.000091	mg/L	7470A	U	Metals	REG	0.86 - 0.86	0.000091 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Nickel	0.002	mg/L	6020A	U	Metals	REG	0.86 - 0.86	0.002 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Potassium	330	mg/L	6020A		Metals	REG	0.86 - 0.86	330	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Silver	0.00018	mg/L	6020A	U	Metals	REG	0.86 - 0.86	0.00018 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Sodium	8000	mg/L	6020A		Metals	REG	0.86 - 0.86	8000	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Thallium	0.00025	mg/L	6020A	U	Metals	REG	0.86 - 0.86	0.00025 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Antimony	0.002	mg/L	6020A	U	Metals	REG	0.86 - 0.86	0.002 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Arsenic	0.0028	mg/L	6020A		Metals	REG	0.86 - 0.86	0.0028	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Barium	0.033	mg/L	6020A		Metals	REG	0.86 - 0.86	0.033	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Beryllium	0.0003	mg/L	6020A	U	Metals	REG	0.86 - 0.86	0.0003 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Cadmium	0.00017	mg/L	6020A	J	Metals	REG	0.86 - 0.86	0.00017 J	873443.756	424825.7808	

Field_ID	Sampled_Date-Time	Sample_De	Sample_De	Matrix_Ty	Sample_Ty	OriginalChemName	Result	Result_Uni	Method_Name	QA_Flag	Method_Type	Result_Typ	Sample_Dept	Result_Lable	x_coord	y_coord	Elevation
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Chromium	0.0025	mg/L	6020A	U	Metals	REG	0.86 - 0.86	0.0025 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Cobalt	0.00086	mg/L	6020A		Metals	REG	0.86 - 0.86	0.00086	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Copper	0.0011	mg/L	6020A	U	Metals	REG	0.86 - 0.86	0.0011 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Vanadium	0.0042	mg/L	6020A	J	Metals	REG	0.86 - 0.86	0.0042 J	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Zinc	0.013	mg/L	6020A	J	Metals	REG	0.86 - 0.86	0.013 J	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Calcium	310	mg/L	6020A		Metals	REG	0.86 - 0.86	310	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Heptachlor	0.0071	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.86 - 0.86	0.0071 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Hexachlorocyclopentadiene	0.51	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.51 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Selenium	0.0022	mg/L	6020A	U	Metals	REG	0.86 - 0.86	0.0022 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Isophorone	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.1 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Toxaphene, Technical	0.24	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.86 - 0.86	0.24 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Toxaphene, 8276	0.24	ug/L	8276	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.24 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Acenaphthene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.1 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Diethyl phthalate	0.11	ug/L	8270D_LL	J	GC/MS Semi VOA	REG	0.86 - 0.86	0.11 J	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Di-n-butyl phthalate	0.4	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.4 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Phenanthrene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.1 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Butyl benzyl phthalate	0.12	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.12 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	N-Nitrosodiphenylamine	0.38	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.38 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Fluorene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.1 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Carbazole	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.1 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Hexachlorobutadiene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.1 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Pentachlorophenol	0.41	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.41 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	2,4,6-Trichlorophenol	0.17	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.17 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	2-Nitroaniline	0.16	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.16 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	2-Nitrophenol	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.1 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Naphthalene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.1 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	2-Methylnaphthalene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.1 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	2-Chloronaphthalene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.1 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	3,3-Dichlorobenzidine	2	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	2 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	1,1-Biphenyl	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.1 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	2-Methylphenol	0.76	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.76 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	2-Chlorophenol	0.12	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.12 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	2,4,5-Trichlorophenol	0.12	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.12 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Endosulfan I	0.0043	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.86 - 0.86	0.0043 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Acetophenone	1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	1 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Nitrobenzene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.1 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	3-Nitroaniline	0.16	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.16 U	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	DDT+DDE+DDD	0.0242	µg/L	ESDAT Combined		ESDAT Combined Con	REG	0.86 - 0.86	0.0242	873443.756	424825.7808	
SW-DMEB-01	4/4/2012	0.86	0.86	SW	Normal	Toxaphene, TAUC, Parlar 11-69	0.51	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.86 - 0.86	0.51 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	4-Nitroaniline	0.52	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.52 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	4-Nitrophenol	0.52	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.52 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Ethylbenzene	0.11	ug/L	8260B	U	GC/MS VOA	REG	0.86 - 0.86	0.11 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Styrene	0.11	ug/L	8260B	U	GC/MS VOA	REG	0.86 - 0.86	0.11 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Benzaldehyde	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.1 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	cis-1,3-Dichloropropene	0.11	ug/L	8260B	U	GC/MS VOA	REG	0.86 - 0.86	0.11 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	trans-1,3-Dichloropropene	0.21	ug/L	8260B	U	GC/MS VOA	REG	0.86 - 0.86	0.21 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	4-Bromophenyl phenyl ether	0.12	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.12 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Heptachlor epoxide	0.0056	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.86 - 0.86	0.0056 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Endosulfan sulfate	0.0063	ug/L	8081B_8082A	UJ	GC Semi VOA	REG	0.86 - 0.86	0.0063 UJ	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Caprolactam	0.14	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.14 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	2,4-Dimethylphenol	0.72	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.72 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	1,4-Dichlorobenzene	0.28	ug/L	8260B	U	GC/MS VOA	REG	0.86 - 0.86	0.28 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	4-Chloroaniline	0.37	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.37 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	1,2-Dibromoethane	0.25	ug/L	8260B	U	GC/MS VOA	REG	0.86 - 0.86	0.25 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	1,2-Dichloroethane	0.1	ug/L	8260B	U	GC/MS VOA	REG	0.86 - 0.86	0.1 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	4-Methyl-2-pentanone	1	ug/L	8260B	U	GC/MS VOA	REG	0.86 - 0.86	1 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	2,2-oxybis[1-chloropropane]	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.1 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Methylcyclohexane	0.1	ug/L	8260B	U	GC/MS VOA	REG	0.86 - 0.86	0.1 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Toluene	0.33	ug/L	8260B	U	GC/MS VOA	REG	0.86 - 0.86	0.33 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Chlorobenzene	0.25	ug/L	8260B	U	GC/MS VOA	REG	0.86 - 0.86	0.25 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Phenol	0.14	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.14 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Cyclohexane	0.25	ug/L	8260B	U	GC/MS VOA	REG	0.86 - 0.86	0.25 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	PCB-1260	0.19	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.86 - 0.86	0.19 U	873443.756	424825.7808	

Field_ID	Sampled_Date-Time	Sample_De	Sample_De	Matrix_Ty	Sample_Ty	OriginalChemName	Result	Result_Uni	Method_Name	QA_Flag	Method_Type	Result_Typ	Sample_Dept	Result_Lable	x_coord	y_coord	Elevation
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	PCB-1254	0.24	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.86 - 0.86	0.24 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	PCB-1268	0.24	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.86 - 0.86	0.24 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	PCB-1221	0.26	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.86 - 0.86	0.26 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	PCB-1232	0.1	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.86 - 0.86	0.1 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Bis(2-chloroethyl)ether	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.1 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Bis(2-chloroethoxy)methane	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.1 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Bis(2-ethylhexyl) phthalate	0.67	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.67 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Di-n-octyl phthalate	0.18	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.18 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Hexachlorobenzene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.1 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Anthracene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.1 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	1,2,4-Trichlorobenzene	0.25	ug/L	8260B	U	GC/MS VOA	REG	0.86 - 0.86	0.25 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	2,4-Dichlorophenol	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.1 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	2,4-Dinitrotoluene	0.12	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.12 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Dibromochloromethane	0.1	ug/L	8260B	U	GC/MS VOA	REG	0.86 - 0.86	0.1 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	PCB-1248	0.34	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.86 - 0.86	0.34 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	PCB-1016	0.066	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.86 - 0.86	0.066 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Tetrachloroethene	0.15	ug/L	8260B	U	GC/MS VOA	REG	0.86 - 0.86	0.15 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Pyrene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.1 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Dimethyl phthalate	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.1 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Dibenzofuran	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.1 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Xylenes, Total	0.2	ug/L	8260B	U	GC/MS VOA	REG	0.86 - 0.86	0.2 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Parlar 26	0.0026	ug/L	8276	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.0026 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Parlar 62	0.026	ug/L	8276	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.026 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	cis-1,2-Dichloroethene	0.15	ug/L	8260B	U	GC/MS VOA	REG	0.86 - 0.86	0.15 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	trans-1,2-Dichloroethene	0.2	ug/L	8260B	U	GC/MS VOA	REG	0.86 - 0.86	0.2 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	3 & 4 Methylphenol	0.69	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.69 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Methyl tert-butyl ether	0.2	ug/L	8260B	U	GC/MS VOA	REG	0.86 - 0.86	0.2 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Parlar 41	0.0026	ug/L	8276	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.0026 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Parlar 44	0.0026	ug/L	8276	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.0026 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Parlar 40	0.0026	ug/L	8276	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.0026 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Atrazine	0.36	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.36 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Benzo[g,h,i]perylene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.1 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Indeno[1,2,3-cd]pyrene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.1 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Benzo[b]fluoranthene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.1 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Fluoranthene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.1 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Benzo[k]fluoranthene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.1 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Acenaphthylene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.1 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Chrysene	0.047	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.047 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Aldrin	0.0065	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.86 - 0.86	0.0065 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Aldrin + Dieldrin	0.015	µg/L	ESDAT Combined		ESDAT Combined Con	REG	0.86 - 0.86	0.015	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	alpha-BHC	0.0053	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.86 - 0.86	0.0053 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	beta-BHC	0.0062	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.86 - 0.86	0.0062 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	delta-BHC	0.0045	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.86 - 0.86	0.0045 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Endosulfan II	0.0091	ug/L	8081B_8082A	UJ	GC Semi VOA	REG	0.86 - 0.86	0.0091 UJ	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	4,4-DDT	0.009	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.86 - 0.86	0.009 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Benzo[a]pyrene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.1 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	alpha-Chlordane	0.0056	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.86 - 0.86	0.0056 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	gamma-Chlordane	0.0048	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.86 - 0.86	0.0048 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	2,4-Dinitrophenol	1.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	1.1 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	4,6-Dinitro-2-methylphenol	0.14	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.14 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	PCB-1242	0.17	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.86 - 0.86	0.17 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Endrin ketone	0.0078	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.86 - 0.86	0.0078 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Dibenz(a,h)anthracene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.1 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	1,3-Dichlorobenzene	0.25	ug/L	8260B	U	GC/MS VOA	REG	0.86 - 0.86	0.25 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Carbon tetrachloride	0.5	ug/L	8260B	U	GC/MS VOA	REG	0.86 - 0.86	0.5 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Benzo[a]anthracene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.1 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Cyanide, Total	0.005	mg/L	9012A	U	General Chemistry	REG	0.86 - 0.86	0.005 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Hx-Sed	0.0064	ug/L	8276		GC/MS Semi VOA	REG	0.86 - 0.86	0.0064	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	gamma-BHC (Lindane)	0.0055	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.86 - 0.86	0.0055 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	2-Hexanone	1	ug/L	8260B	U	GC/MS VOA	REG	0.86 - 0.86	1 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	4-Chloro-3-methylphenol	0.12	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.12 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Dieldrin	0.0085	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.86 - 0.86	0.0085 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	2,6-Dinitrotoluene	0.14	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.14 U	873443.756	424825.7808	

Field_ID	Sampled_Date-Time	Sample_De	Sample_De	Matrix_Ty	Sample_Ty	OriginalChemName	Result	Result_Uni	Method_Name	QA_Flag	Method_Type	Result_Typ	Sample_Dept	Result_Lable	x_coord	y_coord	Elevation
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	N-Nitrosodi-n-propylamine	0.14	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.14 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Parlar 50	0.0026	ug/L	8276	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.0026 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Acetone	5	ug/L	8260B	U	GC/MS VOA	REG	0.86 - 0.86	5 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Chloroform	0.14	ug/L	8260B	U	GC/MS VOA	REG	0.86 - 0.86	0.14 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Hexachloroethane	0.52	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.52 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	4-Chlorophenyl phenyl ether	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.1 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Hp-Sed	0.0051	ug/L	8276		GC/MS Semi VOA	REG	0.86 - 0.86	0.0051	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Benzene	0.25	ug/L	8260B	U	GC/MS VOA	REG	0.86 - 0.86	0.25 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	1,1,1-Trichloroethane	0.5	ug/L	8260B	U	GC/MS VOA	REG	0.86 - 0.86	0.5 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Endrin	0.009	ug/L	8081B_8082A	UJ	GC Semi VOA	REG	0.86 - 0.86	0.009 UJ	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Methoxychlor	0.012	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.86 - 0.86	0.012 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	4,4-DDD	0.0061	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.86 - 0.86	0.0061 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	4,4-DDE	0.0072	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.86 - 0.86	0.0072 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Endrin aldehyde	0.015	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.86 - 0.86	0.015 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Aluminum	2	mg/L	6020A		Metals	REG	0.86 - 0.86	2	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Iron	1.3	mg/L	6020A		Metals	REG	0.86 - 0.86	1.3	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Lead	0.0015	mg/L	6020A	U	Metals	REG	0.86 - 0.86	0.0015 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Magnesium	940	mg/L	6020A		Metals	REG	0.86 - 0.86	940	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Manganese	0.12	mg/L	6020A		Metals	REG	0.86 - 0.86	0.12	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Mercury	0.000091	mg/L	7470A	U	Metals	REG	0.86 - 0.86	0.000091 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Nickel	0.002	mg/L	6020A	U	Metals	REG	0.86 - 0.86	0.002 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Potassium	300	mg/L	6020A		Metals	REG	0.86 - 0.86	300	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Silver	0.0009	mg/L	6020A	U	Metals	REG	0.86 - 0.86	0.0009 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Sodium	7800	mg/L	6020A		Metals	REG	0.86 - 0.86	7800	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Thallium	0.00025	mg/L	6020A	U	Metals	REG	0.86 - 0.86	0.00025 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Antimony	0.01	mg/L	6020A	U	Metals	REG	0.86 - 0.86	0.01 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Arsenic	0.0032	mg/L	6020A		Metals	REG	0.86 - 0.86	0.0032	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Barium	0.039	mg/L	6020A		Metals	REG	0.86 - 0.86	0.039	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Beryllium	0.0003	mg/L	6020A	U	Metals	REG	0.86 - 0.86	0.0003 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Cadmium	0.00065	mg/L	6020A	U	Metals	REG	0.86 - 0.86	0.00065 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Chromium	0.0034	mg/L	6020A	J	Metals	REG	0.86 - 0.86	0.0034 J	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Cobalt	0.0015	mg/L	6020A		Metals	REG	0.86 - 0.86	0.0015	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Copper	0.0012	mg/L	6020A	J	Metals	REG	0.86 - 0.86	0.0012 J	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Vanadium	0.0083	mg/L	6020A	J	Metals	REG	0.86 - 0.86	0.0083 J	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Zinc	0.017	mg/L	6020A	U	Metals	REG	0.86 - 0.86	0.017 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Calcium	280	mg/L	6020A		Metals	REG	0.86 - 0.86	280	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Bromomethane	0.8	ug/L	8260B	U	GC/MS VOA	REG	0.86 - 0.86	0.8 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Chloromethane	0.33	ug/L	8260B	U	GC/MS VOA	REG	0.86 - 0.86	0.33 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Chloroethane	1	ug/L	8260B	U	GC/MS VOA	REG	0.86 - 0.86	1 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Vinyl chloride	0.18	ug/L	8260B	U	GC/MS VOA	REG	0.86 - 0.86	0.18 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Methylene Chloride	1	ug/L	8260B	U	GC/MS VOA	REG	0.86 - 0.86	1 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Carbon disulfide	0.6	ug/L	8260B	U	GC/MS VOA	REG	0.86 - 0.86	0.6 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Bromoform	0.5	ug/L	8260B	U	GC/MS VOA	REG	0.86 - 0.86	0.5 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Bromodichloromethane	0.25	ug/L	8260B	U	GC/MS VOA	REG	0.86 - 0.86	0.25 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	1,1-Dichloroethane	0.25	ug/L	8260B	U	GC/MS VOA	REG	0.86 - 0.86	0.25 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	1,1-Dichloroethene	0.11	ug/L	8260B	U	GC/MS VOA	REG	0.86 - 0.86	0.11 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Trichlorofluoromethane	0.25	ug/L	8260B	U	GC/MS VOA	REG	0.86 - 0.86	0.25 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Dichlorodifluoromethane	0.25	ug/L	8260B	U	GC/MS VOA	REG	0.86 - 0.86	0.25 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	1,1,2-Trichloro-1,2,2-trifluoroethane	0.5	ug/L	8260B	U	GC/MS VOA	REG	0.86 - 0.86	0.5 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Heptachlor	0.0065	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.86 - 0.86	0.0065 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Hexachlorocyclopentadiene	0.52	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.52 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Selenium	0.0011	mg/L	6020A	U	Metals	REG	0.86 - 0.86	0.0011 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Isophorone	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.1 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	1,2-Dichloropropane	0.13	ug/L	8260B	U	GC/MS VOA	REG	0.86 - 0.86	0.13 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	2-Butanone	1	ug/L	8260B	U	GC/MS VOA	REG	0.86 - 0.86	1 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	1,1,2-Trichloroethane	0.13	ug/L	8260B	U	GC/MS VOA	REG	0.86 - 0.86	0.13 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Trichloroethene	0.13	ug/L	8260B	U	GC/MS VOA	REG	0.86 - 0.86	0.13 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Methyl acetate	0.19	ug/L	8260B	U	GC/MS VOA	REG	0.86 - 0.86	0.19 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	1,1,2,2-Tetrachloroethane	0.18	ug/L	8260B	U	GC/MS VOA	REG	0.86 - 0.86	0.18 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Toxaphene, Technical	0.47	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.86 - 0.86	0.47 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Toxaphene, 8276	0.47	ug/L	8276	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.47 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Acenaphthene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.1 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Diethyl phthalate	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.11 U	873443.756	424825.7808	

April 2012 and August 2012 OU1 RFI Surface Water Sample Analytical Data
Former Hercules Plant, Brunswick, Georgia
Geosyntec Consultants

Field_ID	Sampled_Date-Time	Sample_De	Sample_De	Matrix_Ty	Sample_Ty	OriginalChemName	Result	Result_Uni	Method_Name	QA_Flag	Method_Type	Result_Typ	Sample_Depth	Result_Lable	x_coord	y_coord	Elevation
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Di-n-butyl phthalate	0.41	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.41 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Phenanthrene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.1 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Butyl benzyl phthalate	0.12	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.12 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	N-Nitrosodiphenylamine	0.38	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.38 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Fluorene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.1 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Carbazole	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.1 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Hexachlorobutadiene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.1 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Pentachlorophenol	0.42	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.42 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	2,4,6-Trichlorophenol	0.18	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.18 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	2-Nitroaniline	0.17	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.17 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	2-Nitrophenol	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.1 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Naphthalene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.1 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	2-Methylnaphthalene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.1 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	2-Chloronaphthalene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.1 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	3,3-Dichlorobenzidine	2.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	2.1 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	1,1-Biphenyl	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.1 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	2-Methylphenol	0.77	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.77 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	1,2-Dichlorobenzene	0.21	ug/L	8260B	U	GC/MS VOA	REG	0.86 - 0.86	0.21 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	2-Chlorophenol	0.12	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.12 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	2,4,5-Trichlorophenol	0.12	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.12 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Endosulfan I	0.0039	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.86 - 0.86	0.0039 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	1,2-Dibromo-3-Chloropropane	0.44	ug/L	8260B	U	GC/MS VOA	REG	0.86 - 0.86	0.44 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Isopropylbenzene	0.1	ug/L	8260B	U	GC/MS VOA	REG	0.86 - 0.86	0.1 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Acetophenone	1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	1 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Nitrobenzene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.1 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	3-Nitroaniline	0.17	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.86 - 0.86	0.17 U	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	DDT+DDE+DDD	0.0223	µg/L	ESDAT Combined		ESDAT Combined Com	REG	0.86 - 0.86	0.0223	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Total Suspended Solids	29	mg/L	160.2		General Chemistry	REG	0.86 - 0.86	29	873443.756	424825.7808	
SW-DMEB-02	4/4/2012	0.86	0.86	SW	Normal	Toxaphene, TAUC, Parlar 11-69	0.47	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.86 - 0.86	0.47 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	4-Nitroaniline	0.47	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.47 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	4-Nitrophenol	0.47	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.47 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	Benzaldehyde	0.093	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.093 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	4-Bromophenyl phenyl ether	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.11 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	Heptachlor epoxide	0.0056	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.0056 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	Endosulfan sulfate	0.0064	ug/L	8081B_8082A	UJ	GC Semi VOA	REG	0.8 - 0.8	0.0064 UJ	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	Caprolactam	0.12	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.12 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	2,4-Dimethylphenol	0.64	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.64 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	4-Chloroaniline	0.34	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.34 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	2,2-oxybis[1-chloropropane]	0.093	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.093 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	Phenol	0.12	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.12 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	PCB-1260	0.19	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.19 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	PCB-1254	0.24	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.24 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	PCB-1268	0.24	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.24 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	PCB-1221	0.26	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.26 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	PCB-1232	0.1	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.1 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	Bis(2-chloroethyl)ether	0.093	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.093 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	Bis(2-chloroethoxy)methane	0.093	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.093 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	Bis(2-ethylhexyl) phthalate	0.6	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.6 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	Di-n-octyl phthalate	0.16	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.16 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	Hexachlorobenzene	0.093	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.093 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	Anthracene	0.093	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.093 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	2,4-Dichlorophenol	0.093	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.093 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	2,4-Dinitrotoluene	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.11 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	PCB-1248	0.34	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.34 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	PCB-1016	0.066	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.066 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	Pyrene	0.093	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.093 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	Dimethyl phthalate	0.093	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.093 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	Dibenzofuran	0.093	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.093 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	3 & 4 Methylphenol	0.62	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.62 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	Atrazine	0.33	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.33 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	Benzo[g,h,i]perylene	0.093	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.093 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	Indeno[1,2,3-cd]pyrene	0.093	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.093 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	Benzo[b]fluoranthene	0.093	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.093 U	873443.756	424825.7808	

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Former Hercules Plant, Brunswick, Georgia
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Field_ID	Sampled_Date-Time	Sample_De	Sample_De	Matrix_Ty	Sample_Ty	OriginalChemName	Result	Result_Uni	Method_Name	QA_Flag	Method_Type	Result_Typ	Sample_Depth	Result_Lable	x_coord	y_coord	Elevation
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	Fluoranthene	0.093	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.093 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	Benzo[k]fluoranthene	0.093	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.093 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	Acenaphthylene	0.093	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.093 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	Chrysene	0.042	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.042 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	Aldrin	0.0065	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.0065 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	Aldrin + Dieldrin	0.015	µg/L	ESDAT Combined		ESDAT Combined Com	REG	0.8 - 0.8	0.015	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	alpha-BHC	0.0053	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.0053 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	beta-BHC	0.0063	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.0063 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	delta-BHC	0.0045	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.0045 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	Endosulfan II	0.0092	ug/L	8081B_8082A	UJ	GC Semi VOA	REG	0.8 - 0.8	0.0092 UJ	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	4,4-DDT	0.0091	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.0091 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	Benzo[a]pyrene	0.093	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.093 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	alpha-Chlordane	0.0056	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.0056 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	gamma-Chlordane	0.0048	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.0048 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	2,4-Dinitrophenol	1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	1 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	4,6-Dinitro-2-methylphenol	0.12	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.12 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	PCB-1242	0.17	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.17 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	Endrin ketone	0.0079	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.0079 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	Dibenz(a,h)anthracene	0.093	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.093 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	Benzo[a]anthracene	0.093	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.093 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	Cyanide, Total	0.005	mg/L	9012A	U	General Chemistry	REG	0.8 - 0.8	0.005 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	gamma-BHC (Lindane)	0.0055	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.0055 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	4-Chloro-3-methylphenol	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.11 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	Dieldrin	0.0085	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.0085 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	2,6-Dinitrotoluene	0.12	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.12 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	N-Nitrosodi-n-propylamine	0.12	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.12 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	Hexachloroethane	0.47	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.47 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	4-Chlorophenyl phenyl ether	0.093	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.093 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	Endrin	0.0091	ug/L	8081B_8082A	UJ	GC Semi VOA	REG	0.8 - 0.8	0.0091 UJ	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	Methoxychlor	0.012	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.012 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	4,4-DDD	0.0061	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.0061 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	4,4-DDE	0.0072	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.0072 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	Endrin aldehyde	0.015	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.015 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	Aluminum	0.05	mg/L	6020A	U	Metals	REG	0.8 - 0.8	0.05 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	Iron	0.044	mg/L	6020A	U	Metals	REG	0.8 - 0.8	0.044 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	Lead	0.0015	mg/L	6020A	U	Metals	REG	0.8 - 0.8	0.0015 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	Magnesium	1100	mg/L	6020A		Metals	REG	0.8 - 0.8	1100	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	Manganese	0.13	mg/L	6020A		Metals	REG	0.8 - 0.8	0.13	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	Mercury	0.000091	mg/L	7470A	U	Metals	REG	0.8 - 0.8	0.000091 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	Nickel	0.002	mg/L	6020A	U	Metals	REG	0.8 - 0.8	0.002 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	Potassium	350	mg/L	6020A		Metals	REG	0.8 - 0.8	350	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	Silver	0.00036	mg/L	6020A	U	Metals	REG	0.8 - 0.8	0.00036 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	Sodium	8800	mg/L	6020A		Metals	REG	0.8 - 0.8	8800	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	Thallium	0.00025	mg/L	6020A	U	Metals	REG	0.8 - 0.8	0.00025 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	Antimony	0.004	mg/L	6020A	U	Metals	REG	0.8 - 0.8	0.004 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	Arsenic	0.0024	mg/L	6020A	J	Metals	REG	0.8 - 0.8	0.0024 J	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	Barium	0.029	mg/L	6020A		Metals	REG	0.8 - 0.8	0.029	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	Beryllium	0.0003	mg/L	6020A	U	Metals	REG	0.8 - 0.8	0.0003 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	Cadmium	0.00026	mg/L	6020A	U	Metals	REG	0.8 - 0.8	0.00026 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	Chromium	0.0025	mg/L	6020A	U	Metals	REG	0.8 - 0.8	0.0025 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	Cobalt	0.0012	mg/L	6020A		Metals	REG	0.8 - 0.8	0.0012	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	Copper	0.0011	mg/L	6020A	U	Metals	REG	0.8 - 0.8	0.0011 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	Vanadium	0.0042	mg/L	6020A	J	Metals	REG	0.8 - 0.8	0.0042 J	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	Zinc	0.014	mg/L	6020A	J	Metals	REG	0.8 - 0.8	0.014 J	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	Calcium	310	mg/L	6020A		Metals	REG	0.8 - 0.8	310	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	Heptachlor	0.0065	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.0065 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	Hexachlorocyclopentadiene	0.47	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.47 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	Selenium	0.0022	mg/L	6020A	U	Metals	REG	0.8 - 0.8	0.0022 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	Isophorone	0.093	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.093 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	Toxaphene, Technical	0.47	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.47 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	Acenaphthene	0.093	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.093 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	Diethyl phthalate	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.1 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	Di-n-butyl phthalate	0.36	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.36 U	873443.756	424825.7808	

Field_ID	Sampled_Date-Time	Sample_De	Sample_De	Matrix_Ty	Sample_Ty	OriginalChemName	Result	Result_Uni	Method_Name	QA_Flag	Method_Type	Result_Typ	Sample_Deptl	Result_Lable	x_coord	y_coord	Elevation
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	Phenanthrene	0.093	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.093 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	Butyl benzyl phthalate	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.11 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	N-Nitrosodiphenylamine	0.35	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.35 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	Fluorene	0.093	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.093 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	Carbazole	0.093	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.093 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	Hexachlorobutadiene	0.093	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.093 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	Pentachlorophenol	0.37	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.37 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	2,4,6-Trichlorophenol	0.16	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.16 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	2-Nitroaniline	0.15	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.15 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	2-Nitrophenol	0.093	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.093 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	Naphthalene	0.093	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.093 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	2-Methylnaphthalene	0.093	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.093 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	2-Chloronaphthalene	0.093	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.093 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	3,3-Dichlorobenzidine	1.9	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	1.9 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	1,1-Biphenyl	0.093	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.093 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	2-Methylphenol	0.69	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.69 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	2-Chlorophenol	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.11 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	2,4,5-Trichlorophenol	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.11 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	Endosulfan I	0.0039	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.0039 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	Acetophenone	0.093	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.093 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	Nitrobenzene	0.093	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.093 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	3-Nitroaniline	0.15	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.15 U	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	DDT+DDE+DDD	0.0224	µg/L	ESDAT Combined		ESDAT Combined Con	REG	0.8 - 0.8	0.0224	873443.756	424825.7808	
SW-DMFL-01	4/4/2012	0.8	0.8	SW	Normal	Toxaphene, TAUC, Parlar 11-69	0.47	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.47 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	4-Nitroaniline	0.52	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.52 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	4-Nitrophenol	0.52	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.52 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Ethylbenzene	0.11	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.11 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Styrene	0.11	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.11 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Benzaldehyde	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.1 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	cis-1,3-Dichloropropene	0.11	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.11 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	trans-1,3-Dichloropropene	0.21	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.21 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	4-Bromophenyl phenyl ether	0.13	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.13 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Heptachlor epoxide	0.0061	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.0061 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Endosulfan sulfate	0.0069	ug/L	8081B_8082A	UJ	GC Semi VOA	REG	0.8 - 0.8	0.0069 UJ	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Caprolactam	0.14	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.14 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	2,4-Dimethylphenol	0.72	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.72 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	1,4-Dichlorobenzene	0.28	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.28 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	4-Chloroaniline	0.38	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.38 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	1,2-Dibromoethane	0.25	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.25 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	1,2-Dichloroethane	0.1	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.1 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	4-Methyl-2-pentanone	1	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	1 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	2,2-oxybis[1-chloropropane]	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.1 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Methylcyclohexane	0.1	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.1 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Toluene	0.33	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.33 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Chlorobenzene	0.25	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.25 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Phenol	0.14	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.14 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Cyclohexane	0.25	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.25 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	PCB-1260	0.2	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.2 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	PCB-1254	0.26	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.26 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	PCB-1268	0.26	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.26 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	PCB-1221	0.28	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.28 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	PCB-1232	0.11	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.11 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Bis(2-chloroethyl)ether	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.1 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Bis(2-chloroethoxy)methane	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.1 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Bis(2-ethylhexyl) phthalate	0.67	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.67 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Di-n-octyl phthalate	0.18	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.18 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Hexachlorobenzene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.1 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Anthracene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.1 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	1,2,4-Trichlorobenzene	0.25	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.25 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	2,4-Dichlorophenol	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.1 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	2,4-Dinitrotoluene	0.13	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.13 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Dibromochloromethane	0.1	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.1 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	PCB-1248	0.37	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.37 U	873443.756	424825.7808	

Field_ID	Sampled_Date-Time	Sample_De	Sample_De	Matrix_Ty	Sample_Ty	OriginalChemName	Result	Result_Uni	Method_Name	QA_Flag	Method_Type	Result_Typ	Sample_Depth	Result_Lable	x_coord	y_coord	Elevation
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	PCB-1016	0.072	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.072 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Tetrachloroethene	0.15	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.15 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Pyrene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.1 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Dimethyl phthalate	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.1 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Dibenzofuran	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.1 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Xylenes, Total	0.2	ug/L	8260B	J	GC/MS VOA	REG	0.8 - 0.8	0.2 J	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	cis-1,2-Dichloroethene	0.15	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.15 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	trans-1,2-Dichloroethene	0.2	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.2 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	3 & 4 Methylphenol	0.69	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.69 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Methyl tert-butyl ether	0.2	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.2 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Atrazine	0.37	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.37 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Benzo[g,h,i]perylene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.1 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Indeno[1,2,3-cd]pyrene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.1 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Benzo[b]fluoranthene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.1 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Fluoranthene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.1 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Benzo[k]fluoranthene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.1 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Acenaphthylene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.1 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Chrysene	0.047	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.047 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Aldrin	0.0071	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.0071 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Aldrin + Dieldrin	0.0163	µg/L	ESDAT Combined		ESDAT Combined Corr	REG	0.8 - 0.8	0.0163	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	alpha-BHC	0.0058	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.0058 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	beta-BHC	0.0068	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.0068 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	delta-BHC	0.0049	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.0049 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Endosulfan II	0.0099	ug/L	8081B_8082A	UJ	GC Semi VOA	REG	0.8 - 0.8	0.0099 UJ	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	4,4-DDT	0.0098	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.0098 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Benzo[a]pyrene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.1 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	alpha-Chlordane	0.0061	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.0061 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	gamma-Chlordane	0.0052	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.0052 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	2,4-Dinitrophenol	1.2	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	1.2 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	4,6-Dinitro-2-methylphenol	0.14	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.14 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	PCB-1242	0.18	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.18 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Endrin ketone	0.0085	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.0085 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Dibenz(a,h)anthracene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.1 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	1,3-Dichlorobenzene	0.25	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.25 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Carbon tetrachloride	0.5	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.5 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Benzo[a]anthracene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.1 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Cyanide, Total	0.005	mg/L	9012A	U	General Chemistry	REG	0.8 - 0.8	0.005 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	gamma-BHC (Lindane)	0.006	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.006 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	2-Hexanone	1	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	1 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	4-Chloro-3-methylphenol	0.13	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.13 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Dieldrin	0.0092	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.0092 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	2,6-Dinitrotoluene	0.14	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.14 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	N-Nitrosodi-n-propylamine	0.14	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.14 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Acetone	5	ug/L	8260B	UJ	GC/MS VOA	REG	0.8 - 0.8	5 UJ	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Chloroform	0.14	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.14 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Hexachloroethane	0.52	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.52 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	4-Chlorophenyl phenyl ether	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.1 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Benzene	0.25	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.25 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	1,1,1-Trichloroethane	0.5	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.5 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Endrin	0.0098	ug/L	8081B_8082A	UJ	GC Semi VOA	REG	0.8 - 0.8	0.0098 UJ	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Methoxychlor	0.013	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.013 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	4,4-DDD	0.0066	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.0066 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	4,4-DDE	0.0078	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.0078 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Endrin aldehyde	0.016	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.016 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Aluminum	0.0029	mg/L	6020A		Metals	REG	0.8 - 0.8	0.0029	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Iron	1	mg/L	6020A		Metals	REG	0.8 - 0.8	1	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Lead	0.0015	mg/L	6020A	U	Metals	REG	0.8 - 0.8	0.0015 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Magnesium	1100	mg/L	6020A		Metals	REG	0.8 - 0.8	1100	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Manganese	0.15	mg/L	6020A		Metals	REG	0.8 - 0.8	0.15	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Mercury	0.000091	mg/L	7470A	U	Metals	REG	0.8 - 0.8	0.000091 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Nickel	0.0025	mg/L	6020A	J	Metals	REG	0.8 - 0.8	0.0025 J	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Potassium	340	mg/L	6020A		Metals	REG	0.8 - 0.8	340	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Silver	0.00036	mg/L	6020A	U	Metals	REG	0.8 - 0.8	0.00036 U	873443.756	424825.7808	

Field_ID	Sampled_Date-Time	Sample_De	Sample_De	Matrix_Ty	Sample_Ty	OriginalChemName	Result	Result_Uni	Method_Name	QA_Flag	Method_Type	Result_Typ	Sample_Depth	Result_Lable	x_coord	y_coord	Elevation
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Sodium	8700	mg/L	6020A		Metals	REG	0.8 - 0.8	8700	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Thallium	0.00025	mg/L	6020A	U	Metals	REG	0.8 - 0.8	0.00025 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Antimony	0.004	mg/L	6020A	U	Metals	REG	0.8 - 0.8	0.004 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Arsenic	0.0029	mg/L	6020A	J	Metals	REG	0.8 - 0.8	0.0029 J	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Barium	0.03	mg/L	6020A		Metals	REG	0.8 - 0.8	0.03	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Beryllium	0.00015	mg/L	6020A	U	Metals	REG	0.8 - 0.8	0.00015 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Cadmium	0.00026	mg/L	6020A	U	Metals	REG	0.8 - 0.8	0.00026 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Chromium	0.0026	mg/L	6020A	J	Metals	REG	0.8 - 0.8	0.0026 J	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Cobalt	0.0013	mg/L	6020A		Metals	REG	0.8 - 0.8	0.0013	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Copper	0.0011	mg/L	6020A	U	Metals	REG	0.8 - 0.8	0.0011 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Vanadium	0.0078	mg/L	6020A	J	Metals	REG	0.8 - 0.8	0.0078 J	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Zinc	0.019	mg/L	6020A	J	Metals	REG	0.8 - 0.8	0.019 J	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Calcium	310	mg/L	6020A		Metals	REG	0.8 - 0.8	310	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Bromomethane	0.8	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.8 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Chloromethane	0.33	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.33 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Chloroethane	1	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	1 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Vinyl chloride	0.18	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.18 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Methylene Chloride	1	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	1 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Carbon disulfide	0.6	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.6 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Bromoform	0.5	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.5 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Bromodichloromethane	0.25	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.25 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	1,1-Dichloroethane	0.25	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.25 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	1,1-Dichloroethene	0.11	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.11 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Trichlorofluoromethane	0.25	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.25 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Dichlorodifluoromethane	0.25	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.25 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	1,1,2-Trichloro-1,2,2-trifluoroethane	0.5	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.5 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Heptachlor	0.0071	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.0071 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Hexachlorocyclopentadiene	0.52	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.52 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Selenium	0.0022	mg/L	6020A	U	Metals	REG	0.8 - 0.8	0.0022 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Isophorone	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.1 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	1,2-Dichloropropane	0.13	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.13 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	2-Butanone	1	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	1 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	1,1,2-Trichloroethane	0.13	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.13 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Trichloroethene	0.13	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.13 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Methyl acetate	0.19	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.19 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	1,1,2,2-Tetrachloroethane	0.18	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.18 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Toxaphene, Technical	0.51	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.51 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Acenaphthene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.1 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Diethyl phthalate	0.12	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.12 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Di-n-butyl phthalate	0.41	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.41 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Phenanthrene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.1 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Butyl benzyl phthalate	0.13	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.13 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	N-Nitrosodiphenylamine	0.39	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.39 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Fluorene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.1 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Carbazole	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.1 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Hexachlorobutadiene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.1 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Pentachlorophenol	0.42	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.42 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	2,4,6-Trichlorophenol	0.18	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.18 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	2-Nitroaniline	0.17	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.17 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	2-Nitrophenol	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.1 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Naphthalene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.1 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	2-Methylnaphthalene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.1 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	2-Chloronaphthalene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.1 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	3,3-Dichlorobenzidine	2.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	2.1 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	1,1-Biphenyl	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.1 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	2-Methylphenol	0.78	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.78 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	1,2-Dichlorobenzene	0.21	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.21 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	2-Chlorophenol	0.13	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.13 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	2,4,5-Trichlorophenol	0.13	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.13 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Endosulfan I	0.0043	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.0043 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	1,2-Dibromo-3-Chloropropane	0.44	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.44 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Isopropylbenzene	0.1	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.1 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Acetophenone	1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	1 U	873443.756	424825.7808	

April 2012 and August 2012 OU1 RFI Surface Water Sample Analytical Data
Former Hercules Plant, Brunswick, Georgia
Geosyntec Consultants

Field_ID	Sampled_Date-Time	Sample_De	Sample_De	Matrix_Ty	Sample_Ty	OriginalChemName	Result	Result_Uni	Method_Name	QA_Flag	Method_Type	Result_Typ	Sample_Dept	Result_Lable	x_coord	y_coord	Elevation
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Nitrobenzene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.1 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	3-Nitroaniline	0.17	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.17 U	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	DDT+DDE+DDD	0.0242	µg/L	ESDAT Combined		ESDAT Combined Con	REG	0.8 - 0.8	0.0242	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Total Suspended Solids	37	mg/L	160.2		General Chemistry	REG	0.8 - 0.8	37	873443.756	424825.7808	
SW-DMFL-02	4/4/2012	0.8	0.8	SW	Normal	Toxaphene, TAUC, Parlar 11-69	0.51	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.51 U	873443.756	424825.7808	
SW-DMSH-05	4/4/2012	1.2	1.2	SW	Normal	Total Suspended Solids	48	mg/L	160.2		General Chemistry	REG	1.2 - 1.2	48	873443.756	424825.7808	
SW-DMSL-06	4/4/2012	0.44	0.44	SW	Normal	Total Suspended Solids	44	mg/L	160.2		General Chemistry	REG	0.44 - 0.44	44	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	4-Nitroaniline	0.48	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.48 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	4-Nitrophenol	0.48	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.48 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Ethylbenzene	0.11	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.11 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Styrene	0.11	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.11 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Benzaldehyde	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.096 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	cis-1,3-Dichloropropene	0.11	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.11 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	trans-1,3-Dichloropropene	0.21	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.21 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	4-Bromophenyl phenyl ether	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.11 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Heptachlor epoxide	0.0061	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.0061 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Endosulfan sulfate	0.0069	ug/L	8081B_8082A	UJ	GC Semi VOA	REG	0.8 - 0.8	0.0069 UJ	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Caprolactam	0.12	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.12 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	2,4-Dimethylphenol	0.66	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.66 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	1,4-Dichlorobenzene	0.28	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.28 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	4-Chloroaniline	0.34	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.34 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	1,2-Dibromoethane	0.25	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.25 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	1,2-Dichloroethane	0.1	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.1 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	4-Methyl-2-pentanone	1	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	1 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	2,2-oxybis[1-chloropropane]	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.096 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Methylcyclohexane	0.1	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.1 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Toluene	0.33	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.33 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Chlorobenzene	0.25	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.25 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Phenol	0.12	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.12 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Cyclohexane	0.25	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.25 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	PCB-1260	0.2	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.2 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	PCB-1254	0.26	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.26 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	PCB-1268	0.26	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.26 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	PCB-1221	0.28	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.28 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	PCB-1232	0.11	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.11 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Bis(2-chloroethyl)ether	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.096 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Bis(2-chloroethoxy)methane	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.096 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Bis(2-ethylhexyl) phthalate	0.61	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.61 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Di-n-octyl phthalate	0.16	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.16 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Hexachlorobenzene	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.096 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Anthracene	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.096 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	1,2,4-Trichlorobenzene	0.25	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.25 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	2,4-Dichlorophenol	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.096 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	2,4-Dinitrotoluene	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.11 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Dibromochloromethane	0.1	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.1 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	PCB-1248	0.37	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.37 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	PCB-1016	0.072	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.072 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Tetrachloroethene	0.15	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.15 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Pyrene	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.096 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Dimethyl phthalate	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.096 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Dibenzofuran	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.096 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Xylenes, Total	0.24	ug/L	8260B	J	GC/MS VOA	REG	0.8 - 0.8	0.24 J	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	cis-1,2-Dichloroethene	0.15	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.15 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	trans-1,2-Dichloroethene	0.2	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.2 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	3 & 4 Methylphenol	0.63	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.63 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Methyl tert-butyl ether	0.2	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.2 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Atrazine	0.33	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.33 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Benzo[g,h,i]perylene	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.096 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Indeno[1,2,3-cd]pyrene	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.096 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Benzo[b]fluoranthene	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.096 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Fluoranthene	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.096 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Benzo[k]fluoranthene	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.096 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Acenaphthylene	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.096 U	873443.756	424825.7808	

Field_ID	Sampled_Date-Time	Sample_De	Sample_De	Matrix_Ty	Sample_Ty	OriginalChemName	Result	Result_Uni	Method_Name	QA_Flag	Method_Type	Result_Typ	Sample_Depth	Result_Lable	x_coord	y_coord	Elevation
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Chrysene	0.043	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.043 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Aldrin	0.0071	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.0071 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Aldrin + Dieldrin	0.0163	µg/L	ESDAT Combined		ESDAT Combined Con	REG	0.8 - 0.8	0.0163	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	alpha-BHC	0.0058	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.0058 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	beta-BHC	0.0068	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.0068 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	delta-BHC	0.0049	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.0049 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Endosulfan II	0.0099	ug/L	8081B_8082A	UJ	GC Semi VOA	REG	0.8 - 0.8	0.0099 UJ	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	4,4-DDT	0.0098	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.0098 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Benzo[a]pyrene	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.096 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	alpha-Chlordane	0.0061	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.0061 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	gamma-Chlordane	0.0052	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.0052 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	2,4-Dinitrophenol	1.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	1.1 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	4,6-Dinitro-2-methylphenol	0.12	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.12 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	PCB-1242	0.18	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.18 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Endrin ketone	0.0085	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.0085 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Dibenz(a,h)anthracene	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.096 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	1,3-Dichlorobenzene	0.25	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.25 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Carbon tetrachloride	0.5	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.5 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Benzo[a]anthracene	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.096 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Cyanide, Total	0.005	mg/L	9012A	U	General Chemistry	REG	0.8 - 0.8	0.005 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	gamma-BHC (Lindane)	0.006	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.006 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	2-Hexanone	1	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	1 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	4-Chloro-3-methylphenol	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.11 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Dieldrin	0.0092	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.0092 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	2,6-Dinitrotoluene	0.12	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.12 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	N-Nitrosodi-n-propylamine	0.12	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.12 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Acetone	5.1	ug/L	8260B	J	GC/MS VOA	REG	0.8 - 0.8	5.1 J	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Chloroform	0.14	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.14 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Hexachloroethane	0.48	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.48 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	4-Chlorophenyl phenyl ether	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.096 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Benzene	0.25	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.25 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	1,1,1-Trichloroethane	0.5	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.5 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Endrin	0.0098	ug/L	8081B_8082A	UJ	GC Semi VOA	REG	0.8 - 0.8	0.0098 UJ	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Methoxychlor	0.013	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.013 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	4,4-DDD	0.0066	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.0066 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	4,4-DDE	0.0078	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.0078 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Endrin aldehyde	0.016	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.016 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Aluminum	1.7	mg/L	6020A		Metals	REG	0.8 - 0.8	1.7	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Iron	1.1	mg/L	6020A		Metals	REG	0.8 - 0.8	1.1	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Lead	0.0005	mg/L	6020A	U	Metals	REG	0.8 - 0.8	0.0005 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Magnesium	1100	mg/L	6020A		Metals	REG	0.8 - 0.8	1100	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Manganese	0.15	mg/L	6020A		Metals	REG	0.8 - 0.8	0.15	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Mercury	0.000091	mg/L	7470A	U	Metals	REG	0.8 - 0.8	0.000091 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Nickel	0.004	mg/L	6020A	UJ	Metals	REG	0.8 - 0.8	0.004 UJ	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Potassium	320	mg/L	6020A		Metals	REG	0.8 - 0.8	320	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Silver	0.0009	mg/L	6020A	U	Metals	REG	0.8 - 0.8	0.0009 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Sodium	8800	mg/L	6020A		Metals	REG	0.8 - 0.8	8800	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Thallium	0.00025	mg/L	6020A	U	Metals	REG	0.8 - 0.8	0.00025 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Antimony	0.01	mg/L	6020A	U	Metals	REG	0.8 - 0.8	0.01 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Arsenic	0.003	mg/L	6020A	J	Metals	REG	0.8 - 0.8	0.003 J	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Barium	0.03	mg/L	6020A		Metals	REG	0.8 - 0.8	0.03	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Beryllium	0.00075	mg/L	6020A	U	Metals	REG	0.8 - 0.8	0.00075 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Cadmium	0.00065	mg/L	6020A	U	Metals	REG	0.8 - 0.8	0.00065 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Chromium	0.005	mg/L	6020A	UJ	Metals	REG	0.8 - 0.8	0.005 UJ	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Cobalt	0.0013	mg/L	6020A		Metals	REG	0.8 - 0.8	0.0013	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Copper	0.0022	mg/L	6020A	U	Metals	REG	0.8 - 0.8	0.0022 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Vanadium	0.0073	mg/L	6020A	J	Metals	REG	0.8 - 0.8	0.0073 J	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Zinc	0.017	mg/L	6020A	UJ	Metals	REG	0.8 - 0.8	0.017 UJ	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Calcium	310	mg/L	6020A		Metals	REG	0.8 - 0.8	310	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Bromomethane	0.8	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.8 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Chloromethane	0.33	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.33 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Chloroethane	1	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	1 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Vinyl chloride	0.18	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.18 U	873443.756	424825.7808	

April 2012 and August 2012 OU1 RFI Surface Water Sample Analytical Data
Former Hercules Plant, Brunswick, Georgia
Geosyntec Consultants

Field_ID	Sampled_Date-Time	Sample_De	Sample_De	Matrix_Ty	Sample_Ty	OriginalChemName	Result	Result_Uni	Method_Name	QA_Flag	Method_Type	Result_Typ	Sample_Deptl	Result_Lable	x_coord	y_coord	Elevation
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Methylene Chloride	1	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	1 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Carbon disulfide	0.6	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.6 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Bromoform	0.5	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.5 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Bromodichloromethane	0.25	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.25 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	1,1-Dichloroethane	0.25	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.25 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	1,1-Dichloroethene	0.11	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.11 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Trichlorofluoromethane	0.25	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.25 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Dichlorodifluoromethane	0.25	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.25 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	1,1,2-Trichloro-1,2,2-trifluoroethane	0.5	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.5 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Heptachlor	0.0071	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.0071 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Hexachlorocyclopentadiene	0.48	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.48 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Selenium	0.0022	mg/L	6020A	U	Metals	REG	0.8 - 0.8	0.0022 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Isophorone	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.096 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	1,2-Dichloropropane	0.13	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.13 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	2-Butanone	1	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	1 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	1,1,2-Trichloroethane	0.13	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.13 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Trichloroethene	0.13	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.13 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Methyl acetate	0.19	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.19 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	1,1,2,2-Tetrachloroethane	0.18	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.18 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Toxaphene, Technical	0.51	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.51 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Acenaphthene	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.096 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Diethyl phthalate	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.11 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Di-n-butyl phthalate	0.37	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.37 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Phenanthrene	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.096 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Butyl benzyl phthalate	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.11 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	N-Nitrosodiphenylamine	0.35	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.35 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Fluorene	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.096 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Carbazole	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.096 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Hexachlorobutadiene	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.096 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Pentachlorophenol	0.38	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.38 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	2,4,6-Trichlorophenol	0.16	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.16 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	2-Nitroaniline	0.15	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.15 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	2-Nitrophenol	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.096 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Naphthalene	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.096 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	2-Methylnaphthalene	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.096 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	2-Chloronaphthalene	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.096 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	3,3-Dichlorobenzidine	1.9	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	1.9 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	1,1-Biphenyl	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.096 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	2-Methylphenol	0.71	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.71 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	1,2-Dichlorobenzene	0.21	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.21 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	2-Chlorophenol	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.11 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	2,4,5-Trichlorophenol	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.11 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Endosulfan I	0.0043	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.0043 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	1,2-Dibromo-3-Chloropropane	0.44	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.44 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Isopropylbenzene	0.1	ug/L	8260B	U	GC/MS VOA	REG	0.8 - 0.8	0.1 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Acetophenone	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.096 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Nitrobenzene	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.096 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	3-Nitroaniline	0.15	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	0.8 - 0.8	0.15 U	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	DDT+DDE+DDD	0.0242	µg/L	ESDAT Combined		ESDAT Combined Con	REG	0.8 - 0.8	0.0242	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Total Suspended Solids	41	mg/L	160.2		General Chemistry	REG	0.8 - 0.8	41	873443.756	424825.7808	
SW-Dup-01	4/4/2012	0.8	0.8	SW	Field_D	Toxaphene, TAUC, Parlar 11-69	0.51	ug/L	8081B_8082A	U	GC Semi VOA	REG	0.8 - 0.8	0.51 U	873443.756	424825.7808	
SW-DCEB-03	8/21/2012			SW	Normal	4-Nitroaniline	0.51	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.51 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012			SW	Normal	4-Nitrophenol	0.51	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.51 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012			SW	Normal	Benzaldehyde	0.4	ug/L	8270D_LL	J	GC/MS Semi VOA	REG	-	0.4 J	872642.297	424733.0503	
SW-DCEB-03	8/21/2012			SW	Normal	4-Bromophenyl phenyl ether	0.12	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.12 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012			SW	Normal	Heptachlor epoxide	0.0062	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.0062 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012			SW	Normal	Endosulfan sulfate	0.0071	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.0071 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012			SW	Normal	Caprolactam	24	ug/L	8270D_LL		GC/MS Semi VOA	REG	-	24	872642.297	424733.0503	
SW-DCEB-03	8/21/2012			SW	Normal	2,4-Dimethylphenol	0.7	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.7 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012			SW	Normal	4-Chloroaniline	0.36	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.36 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012			SW	Normal	2,2'-oxybis[1-chloropropane]	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.1 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012			SW	Normal	Phenol	0.13	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.13 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012			SW	Normal	PCB-1260	0.21	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.21 U	872642.297	424733.0503	

Field_ID	Sampled_Date-Time	Sample_De	Sample_De	Matrix_Ty	Sample_Ty	OriginalChemName	Result	Result_Uni	Method_Name	QA_Flag	Method_Type	Result_Typ	Sample_Dept	Result_Lable	x_coord	y_coord	Elevation
SW-DCEB-03	8/21/2012		SW	Normal	PCB-1254	0.27	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.27 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012		SW	Normal	PCB-1268	0.27	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.27 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012		SW	Normal	PCB-1221	0.29	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.29 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012		SW	Normal	PCB-1232	0.11	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.11 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012		SW	Normal	Bis(2-chloroethyl)ether	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.1 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012		SW	Normal	Bis(2-chloroethoxy)methane	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.1 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012		SW	Normal	Bis(2-ethylhexyl) phthalate	0.65	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.65 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012		SW	Normal	Di-n-octyl phthalate	0.17	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.17 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012		SW	Normal	Hexachlorobenzene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.1 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012		SW	Normal	Anthracene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.1 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012		SW	Normal	2,4-Dichlorophenol	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.1 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012		SW	Normal	2,4-Dinitrotoluene	0.12	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.12 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012		SW	Normal	PCB-1248	0.37	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.37 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012		SW	Normal	PCB-1016	0.074	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.074 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012		SW	Normal	Pyrene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.1 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012		SW	Normal	Dimethyl phthalate	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.1 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012		SW	Normal	Dibenzofuran	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.1 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012		SW	Normal	3 & 4 Methylphenol	0.67	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.67 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012		SW	Normal	Atrazine	0.35	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.35 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012		SW	Normal	Benzo[g,h,i]perylene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.1 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012		SW	Normal	Indeno[1,2,3-cd]pyrene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.1 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012		SW	Normal	Benzo[b]fluoranthene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.1 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012		SW	Normal	Fluoranthene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.1 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012		SW	Normal	Benzo[k]fluoranthene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.1 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012		SW	Normal	Acenaphthylene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.1 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012		SW	Normal	Chrysene	0.046	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.046 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012		SW	Normal	Aldrin	0.0073	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.0073 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012		SW	Normal	Aldrin + Dieldrin	0.0168	µg/L	ESDAT Combined		ESDAT Combined Con	REG	-	0.0168	872642.297	424733.0503	
SW-DCEB-03	8/21/2012		SW	Normal	alpha-BHC	0.0059	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.0059 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012		SW	Normal	beta-BHC	0.007	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.007 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012		SW	Normal	delta-BHC	0.005	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.005 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012		SW	Normal	Endosulfan II	0.01	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.01 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012		SW	Normal	4,4'-DDT	0.01	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.01 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012		SW	Normal	Benzo[a]pyrene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.1 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012		SW	Normal	alpha-Chlordane	0.0062	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.0062 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012		SW	Normal	gamma-Chlordane	0.0053	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.0053 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012		SW	Normal	2,4-Dinitrophenol	1.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	1.1 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012		SW	Normal	4,6-Dinitro-2-methylphenol	0.13	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.13 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012		SW	Normal	PCB-1242	0.19	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.19 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012		SW	Normal	Endrin ketone	0.0087	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.0087 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012		SW	Normal	Dibenz(a,h)anthracene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.1 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012		SW	Normal	Benzo[a]anthracene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.1 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012		SW	Normal	gamma-BHC (Lindane)	0.0061	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.0061 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012		SW	Normal	4-Chloro-3-methylphenol	0.12	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.12 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012		SW	Normal	Dieldrin	0.0095	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.0095 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012		SW	Normal	2,6-Dinitrotoluene	0.13	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.13 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012		SW	Normal	N-Nitrosodi-n-propylamine	0.13	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.13 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012		SW	Normal	Hexachloroethane	0.51	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.51 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012		SW	Normal	4-Chlorophenyl phenyl ether	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.1 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012		SW	Normal	Endrin	0.01	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.01 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012		SW	Normal	Methoxychlor	0.014	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.014 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012		SW	Normal	4,4'-DDD	0.0068	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.0068 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012		SW	Normal	4,4'-DDE	0.008	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.008 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012		SW	Normal	Endrin aldehyde	0.017	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.017 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012		SW	Normal	Heptachlor	0.0073	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.0073 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012		SW	Normal	Hexachlorocyclopentadiene	0.51	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.51 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012		SW	Normal	Isophorone	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.1 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012		SW	Normal	Toxaphene, Technical	0.52	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.52 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012		SW	Normal	Acenaphthene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.1 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012		SW	Normal	Diethyl phthalate	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.11 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012		SW	Normal	Di-n-butyl phthalate	0.39	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.39 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012		SW	Normal	Phenanthrene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.1 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012		SW	Normal	Butyl benzyl phthalate	0.12	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.12 U	872642.297	424733.0503	

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Field_ID	Sampled_Date-Time	Sample_De	Sample_De	Matrix_Ty	Sample_Ty	OriginalChemName	Result	Result_Uni	Method_Name	QA_Flag	Method_Type	Result_Typ	Sample_Depth	Result_Lable	x_coord	y_coord	Elevation
SW-DCEB-03	8/21/2012			SW	Normal	N-Nitrosodiphenylamine	0.37	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.37 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012			SW	Normal	Fluorene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.1 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012			SW	Normal	Carbazole	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.1 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012			SW	Normal	Hexachlorobutadiene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.1 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012			SW	Normal	Pentachlorophenol	0.4	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.4 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012			SW	Normal	2,4,6-Trichlorophenol	0.17	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.17 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012			SW	Normal	2-Nitroaniline	0.16	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.16 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012			SW	Normal	2-Nitrophenol	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.1 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012			SW	Normal	Naphthalene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.1 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012			SW	Normal	2-Methylnaphthalene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.1 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012			SW	Normal	2-Chloronaphthalene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.1 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012			SW	Normal	3,3'-Dichlorobenzidine	2	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	2 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012			SW	Normal	1,1'-Biphenyl	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.1 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012			SW	Normal	2-Methylphenol	0.75	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.75 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012			SW	Normal	2-Chlorophenol	0.12	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.12 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012			SW	Normal	2,4,5-Trichlorophenol	0.12	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.12 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012			SW	Normal	Endosulfan I	0.0044	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.0044 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012			SW	Normal	Acetophenone	0.11	ug/L	8270D_LL	J	GC/MS Semi VOA	REG	-	0.11 J	872642.297	424733.0503	
SW-DCEB-03	8/21/2012			SW	Normal	Nitrobenzene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.1 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012			SW	Normal	3-Nitroaniline	0.16	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.16 U	872642.297	424733.0503	
SW-DCEB-03	8/21/2012			SW	Normal	DDT+DDE+DDD	0.0248	µg/L	ESDAT Combined		ESDAT Combined Con	REG	-	0.0248	872642.297	424733.0503	
SW-DCEB-03	8/21/2012			SW	Normal	Toxaphene, TAUC, Parlar 11-69	0.52	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.52 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	4-Nitroaniline	0.48	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.48 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	4-Nitrophenol	0.48	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.48 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Ethylbenzene	0.4	ug/L	8260B	J	GC/MS VOA	REG	-	0.4 J	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Styrene	0.11	ug/L	8260B	U	GC/MS VOA	REG	-	0.11 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Benzaldehyde	0.43	ug/L	8270D_LL	J	GC/MS Semi VOA	REG	-	0.43 J	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	cis-1,3-Dichloropropene	0.11	ug/L	8260B	U	GC/MS VOA	REG	-	0.11 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	trans-1,3-Dichloropropene	0.21	ug/L	8260B	U	GC/MS VOA	REG	-	0.21 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	4-Bromophenyl phenyl ether	0.12	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.12 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Heptachlor epoxide	0.0056	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.0056 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Endosulfan sulfate	0.0064	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.0064 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Caprolactam	0.13	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.13 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	2,4-Dimethylphenol	0.66	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.66 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	1,4-Dichlorobenzene	0.28	ug/L	8260B	U	GC/MS VOA	REG	-	0.28 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	4-Chloroaniline	0.35	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.35 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	1,2-Dibromoethane	0.25	ug/L	8260B	U	GC/MS VOA	REG	-	0.25 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	1,2-Dichloroethane	0.1	ug/L	8260B	U	GC/MS VOA	REG	-	0.1 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	4-Methyl-2-pentanone	1	ug/L	8260B	U	GC/MS VOA	REG	-	1 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	2,2'-oxybis[1-chloropropane]	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.096 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Methylcyclohexane	0.1	ug/L	8260B	U	GC/MS VOA	REG	-	0.1 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Toluene	0.33	ug/L	8260B	U	GC/MS VOA	REG	-	0.33 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Chlorobenzene	0.25	ug/L	8260B	U	GC/MS VOA	REG	-	0.25 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Phenol	0.13	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.13 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Cyclohexane	0.25	ug/L	8260B	U	GC/MS VOA	REG	-	0.25 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	PCB-1260	0.19	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.19 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	PCB-1254	0.24	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.24 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	PCB-1268	0.24	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.24 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	PCB-1221	0.26	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.26 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	PCB-1232	0.1	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.1 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Bis(2-chloroethyl)ether	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.096 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Bis(2-chloroethoxy)methane	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.096 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Bis(2-ethylhexyl) phthalate	0.62	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.62 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Di-n-octyl phthalate	0.16	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.16 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Hexachlorobenzene	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.096 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Anthracene	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.096 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	1,2,4-Trichlorobenzene	0.25	ug/L	8260B	U	GC/MS VOA	REG	-	0.25 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	2,4-Dichlorophenol	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.096 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	2,4-Dinitrotoluene	0.12	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.12 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Dibromochloromethane	0.1	ug/L	8260B	U	GC/MS VOA	REG	-	0.1 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	PCB-1248	0.34	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.34 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	PCB-1016	0.067	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.067 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Tetrachloroethene	0.2	ug/L	8260B	J	GC/MS VOA	REG	-	0.2 J	872642.297	424733.0503	

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Field_ID	Sampled_Date-Time	Sample_De	Sample_De	Matrix_Ty	Sample_Ty	OriginalChemName	Result	Result_Uni	Method_Name	QA_Flag	Method_Type	Result_Typ	Sample_Depth	Result_Lable	x_coord	y_coord	Elevation
SW-DCEB-04	8/21/2012			SW	Normal	Pyrene	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.096 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Dimethyl phthalate	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.096 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Dibenzofuran	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.096 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Xylenes, Total	2.5	ug/L	8260B		GC/MS VOA	REG	-	2.5	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	cis-1,2-Dichloroethene	0.15	ug/L	8260B	U	GC/MS VOA	REG	-	0.15 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	trans-1,2-Dichloroethene	0.2	ug/L	8260B	U	GC/MS VOA	REG	-	0.2 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	3 & 4 Methylphenol	0.64	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.64 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Methyl tert-butyl ether	0.2	ug/L	8260B	U	GC/MS VOA	REG	-	0.2 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Atrazine	0.34	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.34 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Benzo[g,h,i]perylene	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.096 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Indeno[1,2,3-cd]pyrene	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.096 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Benzo[b]fluoranthene	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.096 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Fluoranthene	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.096 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Benzo[k]fluoranthene	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.096 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Acenaphthylene	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.096 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Chrysene	0.043	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.043 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Aldrin	0.0066	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.0066 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Aldrin + Dieldrin	0.0151	µg/L	ESDAT Combined		ESDAT Combined Con	REG	-	0.0151	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	alpha-BHC	0.0053	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.0053 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	beta-BHC	0.0063	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.0063 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	delta-BHC	0.0045	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.0045 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Endosulfan II	0.0092	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.0092 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	4,4'-DDT	0.0091	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.0091 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Benzo[a]pyrene	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.096 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	alpha-Chlordane	0.0056	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.0056 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	gamma-Chlordane	0.0048	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.0048 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	2,4-Dinitrophenol	1.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	1.1 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	4,6-Dinitro-2-methylphenol	0.13	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.13 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	PCB-1242	0.17	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.17 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Endrin ketone	0.0079	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.0079 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Dibenz(a,h)anthracene	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.096 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	1,3-Dichlorobenzene	0.25	ug/L	8260B	U	GC/MS VOA	REG	-	0.25 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Carbon tetrachloride	0.66	ug/L	8260B	J	GC/MS VOA	REG	-	0.66 J	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Benzo[a]anthracene	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.096 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Cyanide, Total	0.005	mg/L	9012A	U	General Chemistry	REG	-	0.005 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	gamma-BHC (Lindane)	0.0055	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.0055 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	2-Hexanone	1	ug/L	8260B	U	GC/MS VOA	REG	-	1 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	4-Chloro-3-methylphenol	0.12	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.12 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Dieldrin	0.0085	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.0085 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	2,6-Dinitrotoluene	0.13	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.13 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	N-Nitrosodi-n-propylamine	0.13	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.13 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Acetone	5	ug/L	8260B	U	GC/MS VOA	REG	-	5 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Chloroform	0.39	ug/L	8260B	J	GC/MS VOA	REG	-	0.39 J	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Hexachloroethane	0.48	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.48 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	4-Chlorophenyl phenyl ether	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.096 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Benzene	0.25	ug/L	8260B	U	GC/MS VOA	REG	-	0.25 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	1,1,1-Trichloroethane	0.5	ug/L	8260B	U	GC/MS VOA	REG	-	0.5 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Endrin	0.0091	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.0091 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Methoxychlor	0.012	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.012 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	4,4'-DDD	0.0061	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.0061 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	4,4'-DDE	0.0072	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.0072 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Endrin aldehyde	0.015	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.015 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Aluminum	1.4	mg/L	6020A		Metals	REG	-	1.4	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Iron	0.94	mg/L	6020A		Metals	REG	-	0.94	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Lead	0.001	mg/L	6020A	J	Metals	REG	-	0.001 J	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Magnesium	1100	mg/L	6020A		Metals	REG	-	1100	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Manganese	0.21	mg/L	6020A		Metals	REG	-	0.21	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Mercury	0.000091	mg/L	7470A	U	Metals	REG	-	0.000091 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Nickel	0.002	mg/L	6020A	U	Metals	REG	-	0.002 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Potassium	390	mg/L	6020A		Metals	REG	-	390	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Silver	0.00036	mg/L	6020A	U	Metals	REG	-	0.00036 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Sodium	9300	mg/L	6020A		Metals	REG	-	9300	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Thallium	0.0005	mg/L	6020A	U	Metals	REG	-	0.0005 U	872642.297	424733.0503	

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Field_ID	Sampled_Date-Time	Sample_De	Sample_De	Matrix_Ty	Sample_Ty	OriginalChemName	Result	Result_Uni	Method_Name	QA_Flag	Method_Type	Result_Typ	Sample_Depth	Result_Lable	x_coord	y_coord	Elevation
SW-DCEB-04	8/21/2012			SW	Normal	Antimony	0.004	mg/L	6020A	U	Metals	REG	-	0.004 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Arsenic	0.0057	mg/L	6020A		Metals	REG	-	0.0057	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Barium	0.057	mg/L	6020A		Metals	REG	-	0.057	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Beryllium	0.0006	mg/L	6020A	U	Metals	REG	-	0.0006 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Cadmium	0.00026	mg/L	6020A	U	Metals	REG	-	0.00026 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Chromium	0.0025	mg/L	6020A	U	Metals	REG	-	0.0025 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Cobalt	0.0011	mg/L	6020A		Metals	REG	-	0.0011	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Copper	0.0015	mg/L	6020A	J	Metals	REG	-	0.0015 J	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Vanadium	0.0074	mg/L	6020A	J	Metals	REG	-	0.0074 J	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Zinc	0.025	mg/L	6020A	J	Metals	REG	-	0.025 J	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Calcium	390	mg/L	6020A		Metals	REG	-	390	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Bromomethane	0.8	ug/L	8260B	U	GC/MS VOA	REG	-	0.8 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Chloromethane	0.33	ug/L	8260B	U	GC/MS VOA	REG	-	0.33 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Chloroethane	1	ug/L	8260B	U	GC/MS VOA	REG	-	1 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Vinyl chloride	0.18	ug/L	8260B	U	GC/MS VOA	REG	-	0.18 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Methylene Chloride	1	ug/L	8260B	U	GC/MS VOA	REG	-	1 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Carbon disulfide	0.6	ug/L	8260B	U	GC/MS VOA	REG	-	0.6 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Bromoform	0.5	ug/L	8260B	U	GC/MS VOA	REG	-	0.5 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Bromodichloromethane	0.25	ug/L	8260B	U	GC/MS VOA	REG	-	0.25 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	1,1-Dichloroethane	0.25	ug/L	8260B	U	GC/MS VOA	REG	-	0.25 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	1,1-Dichloroethene	0.11	ug/L	8260B	U	GC/MS VOA	REG	-	0.11 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Trichlorofluoromethane	0.25	ug/L	8260B	U	GC/MS VOA	REG	-	0.25 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Dichlorodifluoromethane	0.25	ug/L	8260B	U	GC/MS VOA	REG	-	0.25 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	1,1,2-Trichloro-1,2,2-trifluoroethane	0.5	ug/L	8260B	U	GC/MS VOA	REG	-	0.5 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Heptachlor	0.0066	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.0066 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Hexachlorocyclopentadiene	0.48	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.48 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Selenium	0.0022	mg/L	6020A	U	Metals	REG	-	0.0022 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Isophorone	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.096 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	1,2-Dichloropropane	0.13	ug/L	8260B	U	GC/MS VOA	REG	-	0.13 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	2-Butanone	1	ug/L	8260B	U	GC/MS VOA	REG	-	1 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	1,1,2-Trichloroethane	0.13	ug/L	8260B	U	GC/MS VOA	REG	-	0.13 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Trichloroethene	0.13	ug/L	8260B	U	GC/MS VOA	REG	-	0.13 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Methyl acetate	0.19	ug/L	8260B	U	GC/MS VOA	REG	-	0.19 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	1,1,2,2-Tetrachloroethane	0.18	ug/L	8260B	U	GC/MS VOA	REG	-	0.18 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Toxaphene, Technical	0.47	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.47 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Acenaphthene	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.096 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Diethyl phthalate	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.11 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Di-n-butyl phthalate	0.38	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.38 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Phenanthrene	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.096 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Butyl benzyl phthalate	0.12	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.12 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	N-Nitrosodiphenylamine	0.36	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.36 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Fluorene	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.096 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Carbazole	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.096 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Hexachlorobutadiene	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.096 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Pentachlorophenol	0.38	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.38 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	2,4,6-Trichlorophenol	0.16	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.16 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	2-Nitroaniline	0.15	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.15 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	2-Nitrophenol	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.096 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Naphthalene	0.3	ug/L	8270D_LL		GC/MS Semi VOA	REG	-	0.3	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	2-Methylnaphthalene	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.096 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	2-Chloronaphthalene	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.096 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	3,3'-Dichlorobenzidine	1.9	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	1.9 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	1,1'-Biphenyl	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.096 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	2-Methylphenol	0.71	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.71 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	1,2-Dichlorobenzene	0.21	ug/L	8260B	U	GC/MS VOA	REG	-	0.21 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	2-Chlorophenol	0.12	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.12 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	2,4,5-Trichlorophenol	0.12	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.12 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Endosulfan I	0.0039	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.0039 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	1,2-Dibromo-3-Chloropropane	0.44	ug/L	8260B	U	GC/MS VOA	REG	-	0.44 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Isopropylbenzene	0.16	ug/L	8260B	J	GC/MS VOA	REG	-	0.16 J	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Acetophenone	0.11	ug/L	8270D_LL	J	GC/MS Semi VOA	REG	-	0.11 J	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	Nitrobenzene	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.096 U	872642.297	424733.0503	
SW-DCEB-04	8/21/2012			SW	Normal	3-Nitroaniline	0.15	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.15 U	872642.297	424733.0503	

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Field_ID	Sampled_Date-Time	Sample_De	Sample_De	Matrix_Ty	Sample_Ty	OriginalChemName	Result	Result_Uni	Method_Name	QA_Flag	Method_Type	Result_Typ	Sample_Dept	Result_Lable	x_coord	y_coord	Elevation
SW-DCEB-04	8/21/2012		SW	Normal	DDT+DDE+DDD	0.0224	µg/L	ESDAT Combined		ESDAT Combined Con	REG	-		0.0224	872642.297	424733.0503	
SW-DCEB-04	8/21/2012		SW	Normal	Total Suspended Solids	43	mg/L	160.2		General Chemistry	REG	-		43	872642.297	424733.0503	
SW-DCEB-04	8/21/2012		SW	Normal	Toxaphene, TAUC, Parlar 11-69	0.47	ug/L	8081B_8082A	U	GC Semi VOA	REG	-		0.47 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal	4-Nitroaniline	0.46	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-		0.46 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal	4-Nitrophenol	0.46	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-		0.46 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal	Benzaldehyde	0.092	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-		0.092 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal	4-Bromophenyl phenyl ether	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-		0.11 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal	Heptachlor epoxide	0.0055	ug/L	8081B_8082A	U	GC Semi VOA	REG	-		0.0055 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal	Endosulfan sulfate	0.0063	ug/L	8081B_8082A	U	GC Semi VOA	REG	-		0.0063 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal	Caprolactam	0.21	ug/L	8270D_LL	J	GC/MS Semi VOA	REG	-		0.21 J	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal	2,4-Dimethylphenol	0.64	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-		0.64 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal	4-Chloroaniline	0.33	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-		0.33 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal	2,2'-oxybis[1-chloropropane]	0.092	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-		0.092 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal	Phenol	0.12	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-		0.12 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal	PCB-1260	0.18	ug/L	8081B_8082A	U	GC Semi VOA	REG	-		0.18 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal	PCB-1254	0.24	ug/L	8081B_8082A	U	GC Semi VOA	REG	-		0.24 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal	PCB-1268	0.24	ug/L	8081B_8082A	U	GC Semi VOA	REG	-		0.24 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal	PCB-1221	0.26	ug/L	8081B_8082A	U	GC Semi VOA	REG	-		0.26 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal	PCB-1232	0.1	ug/L	8081B_8082A	U	GC Semi VOA	REG	-		0.1 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal	Bis(2-chloroethyl)ether	0.092	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-		0.092 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal	Bis(2-chloroethoxy)methane	0.092	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-		0.092 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal	Bis(2-ethylhexyl) phthalate	0.59	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-		0.59 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal	Di-n-octyl phthalate	0.16	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-		0.16 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal	Hexachlorobenzene	0.092	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-		0.092 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal	Anthracene	0.092	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-		0.092 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal	2,4-Dichlorophenol	0.092	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-		0.092 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal	2,4-Dinitrotoluene	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-		0.11 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal	PCB-1248	0.33	ug/L	8081B_8082A	U	GC Semi VOA	REG	-		0.33 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal	PCB-1016	0.066	ug/L	8081B_8082A	U	GC Semi VOA	REG	-		0.066 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal	Pyrene	0.092	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-		0.092 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal	Dimethyl phthalate	0.092	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-		0.092 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal	Dibenzofuran	0.092	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-		0.092 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal	3 & 4 Methylphenol	0.61	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-		0.61 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal	Atrazine	0.32	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-		0.32 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal	Benzo[g,h,i]perylene	0.092	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-		0.092 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal	Indeno[1,2,3-cd]pyrene	0.092	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-		0.092 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal	Benzo[b]fluoranthene	0.092	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-		0.092 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal	Fluoranthene	0.092	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-		0.092 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal	Benzo[k]fluoranthene	0.092	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-		0.092 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal	Acenaphthylene	0.092	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-		0.092 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal	Chrysene	0.042	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-		0.042 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal	Aldrin	0.0065	ug/L	8081B_8082A	U	GC Semi VOA	REG	-		0.0065 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal	Aldrin + Dieldrin	0.0149	µg/L	ESDAT Combined		ESDAT Combined Con	REG	-		0.0149	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal	alpha-BHC	0.0053	ug/L	8081B_8082A	U	GC Semi VOA	REG	-		0.0053 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal	beta-BHC	0.0062	ug/L	8081B_8082A	U	GC Semi VOA	REG	-		0.0062 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal	delta-BHC	0.0044	ug/L	8081B_8082A	U	GC Semi VOA	REG	-		0.0044 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal	Endosulfan II	0.0091	ug/L	8081B_8082A	U	GC Semi VOA	REG	-		0.0091 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal	4,4'-DDT	0.009	ug/L	8081B_8082A	U	GC Semi VOA	REG	-		0.009 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal	Benzo[a]pyrene	0.092	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-		0.092 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal	alpha-Chlordane	0.0055	ug/L	8081B_8082A	U	GC Semi VOA	REG	-		0.0055 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal	gamma-Chlordane	0.0047	ug/L	8081B_8082A	U	GC Semi VOA	REG	-		0.0047 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal	2,4-Dinitrophenol	1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-		1 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal	4,6-Dinitro-2-methylphenol	0.12	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-		0.12 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal	PCB-1242	0.17	ug/L	8081B_8082A	U	GC Semi VOA	REG	-		0.17 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal	Endrin ketone	0.0078	ug/L	8081B_8082A	U	GC Semi VOA	REG	-		0.0078 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal	Dibenz(a,h)anthracene	0.092	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-		0.092 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal	Benzo[a]anthracene	0.092	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-		0.092 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal	Cyanide, Total	0.013	mg/L	9012A		General Chemistry	REG	-		0.013	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal	gamma-BHC (Lindane)	0.0055	ug/L	8081B_8082A	U	GC Semi VOA	REG	-		0.0055 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal	4-Chloro-3-methylphenol	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-		0.11 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal	Dieldrin	0.0084	ug/L	8081B_8082A	U	GC Semi VOA	REG	-		0.0084 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal	2,6-Dinitrotoluene	0.12	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-		0.12 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal	N-Nitrosodi-n-propylamine	0.12	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-		0.12 U	872642.297	424733.0503	

April 2012 and August 2012 OU1 RFI Surface Water Sample Analytical Data
Former Hercules Plant, Brunswick, Georgia
Geosyntec Consultants

Field_ID	Sampled_Date-Time	Sample_De	Sample_De	Matrix_Ty	Sample_Ty	OriginalChemName	Result	Result_Uni	Method_Name	QA_Flag	Method_Type	Result_Typ	Sample_Depth	Result_Lable	x_coord	y_coord	Elevation
SW-DCFL-03	8/21/2012		SW	Normal		Hexachloroethane	0.46	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.46 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal		4-Chlorophenyl phenyl ether	0.092	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.092 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal		Endrin	0.009	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.009 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal		Methoxychlor	0.012	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.012 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal		4,4'-DDD	0.006	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.006 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal		4,4'-DDE	0.0071	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.0071 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal		Endrin aldehyde	0.015	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.015 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal		Aluminum	0.05	mg/L	6020A	U	Metals	REG	-	0.05 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal		Iron	0.044	mg/L	6020A	U	Metals	REG	-	0.044 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal		Lead	0.0005	mg/L	6020A	U	Metals	REG	-	0.0005 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal		Magnesium	1200	mg/L	6020A		Metals	REG	-	1200	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal		Manganese	0.091	mg/L	6020A		Metals	REG	-	0.091	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal		Mercury	0.000091	mg/L	7470A	U	Metals	REG	-	0.000091 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal		Nickel	0.002	mg/L	6020A	U	Metals	REG	-	0.002 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal		Potassium	350	mg/L	6020A		Metals	REG	-	350	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal		Silver	0.00036	mg/L	6020A	U	Metals	REG	-	0.00036 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal		Sodium	9700	mg/L	6020A		Metals	REG	-	9700	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal		Thallium	0.00025	mg/L	6020A	U	Metals	REG	-	0.00025 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal		Antimony	0.004	mg/L	6020A	U	Metals	REG	-	0.004 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal		Arsenic	0.0026	mg/L	6020A		Metals	REG	-	0.0026	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal		Barium	0.023	mg/L	6020A		Metals	REG	-	0.023	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal		Beryllium	0.00015	mg/L	6020A	U	Metals	REG	-	0.00015 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal		Cadmium	0.00026	mg/L	6020A	U	Metals	REG	-	0.00026 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal		Chromium	0.0025	mg/L	6020A	U	Metals	REG	-	0.0025 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal		Cobalt	0.00081	mg/L	6020A		Metals	REG	-	0.00081	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal		Copper	0.0011	mg/L	6020A	U	Metals	REG	-	0.0011 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal		Vanadium	0.0048	mg/L	6020A	J	Metals	REG	-	0.0048 J	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal		Zinc	0.015	mg/L	6020A	J	Metals	REG	-	0.015 J	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal		Calcium	350	mg/L	6020A		Metals	REG	-	350	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal		Heptachlor	0.0065	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.0065 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal		Hexachlorocyclopentadiene	0.46	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.46 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal		Selenium	0.0011	mg/L	6020A	J	Metals	REG	-	0.0011 J	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal		Isophorone	0.092	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.092 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal		Toxaphene, Technical	0.46	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.46 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal		Acenaphthene	0.092	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.092 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal		Diethyl phthalate	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.1 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal		Di-n-butyl phthalate	0.36	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.36 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal		Phenanthrene	0.092	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.092 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal		Butyl benzyl phthalate	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.11 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal		N-Nitrosodiphenylamine	0.34	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.34 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal		Fluorene	0.092	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.092 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal		Carbazole	0.092	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.092 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal		Hexachlorobutadiene	0.092	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.092 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal		Pentachlorophenol	0.37	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.37 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal		2,4,6-Trichlorophenol	0.16	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.16 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal		2-Nitroaniline	0.15	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.15 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal		2-Nitrophenol	0.092	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.092 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal		Naphthalene	0.092	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.092 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal		2-Methylnaphthalene	0.092	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.092 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal		2-Chloronaphthalene	0.092	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.092 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal		3,3'-Dichlorobenzidine	1.8	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	1.8 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal		1,1'-Biphenyl	0.092	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.092 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal		2-Methylphenol	0.68	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.68 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal		2-Chlorophenol	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.11 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal		2,4,5-Trichlorophenol	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.11 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal		Endosulfan I	0.0039	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.0039 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal		Acetophenone	0.092	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.092 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal		Nitrobenzene	0.092	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.092 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal		3-Nitroaniline	0.15	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.15 U	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal		DDT+DDE+DDD	0.0221	µg/L	ESDAT Combined		ESDAT Combined Com	REG	-	0.0221	872642.297	424733.0503	
SW-DCFL-03	8/21/2012		SW	Normal		Toxaphene, TAUC, Parlar 11-69	0.46	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.46 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012		SW	Normal		4-Nitroaniline	0.48	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.48 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012		SW	Normal		4-Nitrophenol	0.48	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.48 U	872642.297	424733.0503	

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Field_ID	Sampled_Date-Time	Sample_De	Sample_De	Matrix_Ty	Sample_Ty	OriginalChemName	Result	Result_Uni	Method_Name	QA_Flag	Method_Type	Result_Typ	Sample_Depth	Result_Lable	x_coord	y_coord	Elevation
SW-DCFL-04	8/21/2012			SW	Normal	Benzaldehyde	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.096 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	4-Bromophenyl phenyl ether	0.12	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.12 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	Heptachlor epoxide	0.0063	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.0063 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	Endosulfan sulfate	0.0071	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.0071 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	Caprolactam	0.15	ug/L	8270D_LL	J	GC/MS Semi VOA	REG	-	0.15 J	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	2,4-Dimethylphenol	0.67	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.67 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	4-Chloroaniline	0.35	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.35 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	2,2'-oxybis[1-chloropropane]	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.096 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	Phenol	0.13	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.13 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	PCB-1260	0.21	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.21 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	PCB-1254	0.27	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.27 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	PCB-1268	0.27	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.27 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	PCB-1221	0.29	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.29 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	PCB-1232	0.11	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.11 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	Bis(2-chloroethyl)ether	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.096 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	Bis(2-chloroethoxy)methane	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.096 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	Bis(2-ethylhexyl) phthalate	0.62	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.62 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	Di-n-octyl phthalate	0.16	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.16 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	Hexachlorobenzene	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.096 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	Anthracene	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.096 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	2,4-Dichlorophenol	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.096 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	2,4-Dinitrotoluene	0.12	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.12 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	PCB-1248	0.38	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.38 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	PCB-1016	0.074	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.074 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	Pyrene	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.096 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	Dimethyl phthalate	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.096 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	Dibenzofuran	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.096 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	3 & 4 Methylphenol	0.64	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.64 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	Atrazine	0.34	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.34 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	Benzo[g,h,i]perylene	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.096 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	Indeno[1,2,3-cd]pyrene	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.096 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	Benzo[b]fluoranthene	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.096 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	Fluoranthene	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.096 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	Benzo[k]fluoranthene	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.096 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	Acenaphthylene	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.096 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	Chrysene	0.043	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.043 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	Aldrin	0.0073	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.0073 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	Aldrin + Dieldrin	0.0168	µg/L	ESDAT Combined		ESDAT Combined Con	REG	-	0.0168	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	alpha-BHC	0.0059	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.0059 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	beta-BHC	0.007	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.007 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	delta-BHC	0.005	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.005 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	Endosulfan II	0.01	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.01 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	4,4'-DDT	0.01	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.01 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	Benzo[a]pyrene	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.096 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	alpha-Chlordane	0.0063	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.0063 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	gamma-Chlordane	0.0053	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.0053 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	2,4-Dinitrophenol	1.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	1.1 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	4,6-Dinitro-2-methylphenol	0.13	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.13 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	PCB-1242	0.19	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.19 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	Endrin ketone	0.0088	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.0088 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	Dibenz(a,h)anthracene	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.096 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	Benzo[a]anthracene	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.096 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	Cyanide, Total	0.0065	mg/L	9012A	J	General Chemistry	REG	-	0.0065 J	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	gamma-BHC (Lindane)	0.0062	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.0062 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	4-Chloro-3-methylphenol	0.12	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.12 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	Dieldrin	0.0095	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.0095 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	2,6-Dinitrotoluene	0.13	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.13 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	N-Nitrosodi-n-propylamine	0.13	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.13 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	Hexachloroethane	0.48	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.48 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	4-Chlorophenyl phenyl ether	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.096 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	Endrin	0.01	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.01 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	Methoxychlor	0.014	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.014 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	4,4'-DDD	0.0068	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.0068 U	872642.297	424733.0503	

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Field_ID	Sampled_Date-Time	Sample_De	Sample_De	Matrix_Ty	Sample_Ty	OriginalChemName	Result	Result_Uni	Method_Name	QA_Flag	Method_Type	Result_Typ	Sample_Depth	Result_Lable	x_coord	y_coord	Elevation
SW-DCFL-04	8/21/2012			SW	Normal	4,4'-DDE	0.008	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.008 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	Endrin aldehyde	0.017	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.017 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	Aluminum	1.2	mg/L	6020A		Metals	REG	-	1.2	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	Iron	0.85	mg/L	6020A		Metals	REG	-	0.85	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	Lead	0.00078	mg/L	6020A	J	Metals	REG	-	0.00078 J	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	Magnesium	1000	mg/L	6020A		Metals	REG	-	1000	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	Manganese	0.12	mg/L	6020A		Metals	REG	-	0.12	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	Mercury	0.000091	mg/L	7470A	U	Metals	REG	-	0.000091 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	Nickel	0.002	mg/L	6020A	U	Metals	REG	-	0.002 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	Potassium	340	mg/L	6020A		Metals	REG	-	340	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	Silver	0.00072	mg/L	6020A	U	Metals	REG	-	0.00072 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	Sodium	9000	mg/L	6020A		Metals	REG	-	9000	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	Thallium	0.00025	mg/L	6020A	U	Metals	REG	-	0.00025 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	Antimony	0.008	mg/L	6020A	U	Metals	REG	-	0.008 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	Arsenic	0.0034	mg/L	6020A		Metals	REG	-	0.0034	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	Barium	0.028	mg/L	6020A		Metals	REG	-	0.028	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	Beryllium	0.0006	mg/L	6020A	U	Metals	REG	-	0.0006 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	Cadmium	0.00052	mg/L	6020A	U	Metals	REG	-	0.00052 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	Chromium	0.0025	mg/L	6020A	U	Metals	REG	-	0.0025 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	Cobalt	0.0011	mg/L	6020A		Metals	REG	-	0.0011	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	Copper	0.0011	mg/L	6020A	U	Metals	REG	-	0.0011 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	Vanadium	0.0074	mg/L	6020A	J	Metals	REG	-	0.0074 J	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	Zinc	0.017	mg/L	6020A	J	Metals	REG	-	0.017 J	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	Calcium	340	mg/L	6020A		Metals	REG	-	340	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	Heptachlor	0.0073	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.0073 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	Hexachlorocyclopentadiene	0.48	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.48 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	Selenium	0.0022	mg/L	6020A	U	Metals	REG	-	0.0022 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	Isophorone	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.096 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	Toxaphene, Technical	0.52	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.52 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	Acenaphthene	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.096 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	Diethyl phthalate	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.11 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	Di-n-butyl phthalate	0.38	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.38 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	Phenanthrene	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.096 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	Butyl benzyl phthalate	0.12	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.12 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	N-Nitrosodiphenylamine	0.36	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.36 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	Fluorene	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.096 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	Carbazole	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.096 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	Hexachlorobutadiene	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.096 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	Pentachlorophenol	0.39	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.39 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	2,4,6-Trichlorophenol	0.16	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.16 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	2-Nitroaniline	0.15	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.15 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	2-Nitrophenol	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.096 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	Naphthalene	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.096 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	2-Methylnaphthalene	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.096 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	2-Chloronaphthalene	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.096 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	3,3'-Dichlorobenzidine	1.9	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	1.9 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	1,1'-Biphenyl	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.096 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	2-Methylphenol	0.71	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.71 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	2-Chlorophenol	0.12	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.12 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	2,4,5-Trichlorophenol	0.12	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.12 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	Endosulfan I	0.0044	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.0044 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	Acetophenone	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.096 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	Nitrobenzene	0.096	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.096 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	3-Nitroaniline	0.15	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.15 U	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	DDT+DDE+DDD	0.0248	µg/L	ESDAT Combined		ESDAT Combined Con	REG	-	0.0248	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	Total Suspended Solids	31	mg/L	160.2		General Chemistry	REG	-	31	872642.297	424733.0503	
SW-DCFL-04	8/21/2012			SW	Normal	Toxaphene, TAUC, Parlar 11-69	0.52	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.52 U	872642.297	424733.0503	
SW-DMEB-03	8/21/2012			SW	Normal	4-Nitroaniline	0.51	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.51 U	873443.756	424825.7808	
SW-DMEB-03	8/21/2012			SW	Normal	4-Nitrophenol	0.51	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.51 U	873443.756	424825.7808	
SW-DMEB-03	8/21/2012			SW	Normal	Benzaldehyde	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.1 U	873443.756	424825.7808	
SW-DMEB-03	8/21/2012			SW	Normal	4-Bromophenyl phenyl ether	0.12	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.12 U	873443.756	424825.7808	
SW-DMEB-03	8/21/2012			SW	Normal	Heptachlor epoxide	0.0065	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.0065 U	873443.756	424825.7808	
SW-DMEB-03	8/21/2012			SW	Normal	Endosulfan sulfate	0.0074	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.0074 U	873443.756	424825.7808	

Field_ID	Sampled_Date-Time	Sample_De	Sample_De	Matrix_Ty	Sample_Ty	OriginalChemName	Result	Result_Uni	Method_Name	QA_Flag	Method_Type	Result_Typ	Sample_Depth	Result_Lable	x_coord	y_coord	Elevation
SW-DMEB-03	8/21/2012		SW	Normal	Caprolactam	0.2	ug/L	8270D_LL	J	GC/MS Semi VOA	REG	-	0.2 J	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	2,4-Dimethylphenol	0.71	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.71 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	4-Chloroaniline	0.37	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.37 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	2,2'-oxybis[1-chloropropane]	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.1 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	Phenol	0.13	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.13 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	PCB-1260	0.22	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.22 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	PCB-1254	0.28	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.28 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	PCB-1268	0.28	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.28 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	PCB-1221	0.3	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.3 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	PCB-1232	0.12	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.12 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	Bis(2-chloroethyl)ether	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.1 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	Bis(2-chloroethoxy)methane	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.1 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	Bis(2-ethylhexyl) phthalate	0.65	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.65 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	Di-n-octyl phthalate	0.17	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.17 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	Hexachlorobenzene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.1 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	Anthracene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.1 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	2,4-Dichlorophenol	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.1 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	2,4-Dinitrotoluene	0.12	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.12 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	PCB-1248	0.39	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.39 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	PCB-1016	0.077	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.077 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	Pyrene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.1 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	Dimethyl phthalate	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.1 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	Dibenzofuran	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.1 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	3 & 4 Methylphenol	0.67	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.67 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	Atrazine	0.36	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.36 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	Benzo[g,h,i]perylene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.1 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	Indeno[1,2,3-cd]pyrene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.1 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	Benzo[b]fluoranthene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.1 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	Fluoranthene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.1 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	Benzo[k]fluoranthene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.1 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	Acenaphthylene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.1 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	Chrysene	0.046	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.046 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	Aldrin	0.0076	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.0076 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	Aldrin + Dieldrin	0.0175	µg/L	ESDAT Combined		ESDAT Combined Com	REG	-	0.0175	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	alpha-BHC	0.0062	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.0062 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	beta-BHC	0.0073	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.0073 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	delta-BHC	0.0052	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.0052 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	Endosulfan II	0.011	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.011 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	4,4'-DDT	0.011	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.011 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	Benzo[a]pyrene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.1 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	alpha-Chlordane	0.0065	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.0065 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	gamma-Chlordane	0.0056	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.0056 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	2,4-Dinitrophenol	1.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	1.1 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	4,6-Dinitro-2-methylphenol	0.13	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.13 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	PCB-1242	0.2	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.2 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	Endrin ketone	0.0091	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.0091 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	Dibenz(a,h)anthracene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.1 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	Benzo[a]anthracene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.1 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	Cyanide, Total	0.0094	mg/L	9012A	J	General Chemistry	REG	-	0.0094 J	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	gamma-BHC (Lindane)	0.0064	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.0064 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	4-Chloro-3-methylphenol	0.12	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.12 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	Dieldrin	0.0099	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.0099 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	2,6-Dinitrotoluene	0.13	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.13 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	N-Nitrosodi-n-propylamine	0.13	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.13 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	Hexachloroethane	0.51	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.51 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	4-Chlorophenyl phenyl ether	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.1 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	Endrin	0.011	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.011 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	Methoxychlor	0.014	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.014 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	4,4'-DDD	0.0071	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.0071 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	4,4'-DDE	0.0084	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.0084 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	Endrin aldehyde	0.017	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.017 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	Aluminum	0.05	mg/L	6020A	U	Metals	REG	-	0.05 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	Iron	0.044	mg/L	6020A	U	Metals	REG	-	0.044 U	873443.756	424825.7808		

April 2012 and August 2012 OU1 RFI Surface Water Sample Analytical Data
Former Hercules Plant, Brunswick, Georgia
Geosyntec Consultants

Field_ID	Sampled_Date-Time	Sample_De	Sample_De	Matrix_Ty	Sample_Ty	OriginalChemName	Result	Result_Uni	Method_Name	QA_Flag	Method_Type	Result_Typ	Sample_Depth	Result_Lable	x_coord	y_coord	Elevation
SW-DMEB-03	8/21/2012		SW	Normal	Lead	0.0005	mg/L	6020A	U	Metals	REG	-	0.0005 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	Magnesium	1200	mg/L	6020A		Metals	REG	-	1200	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	Manganese	0.0091	mg/L	6020A		Metals	REG	-	0.0091	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	Mercury	0.000091	mg/L	7470A	U	Metals	REG	-	0.000091 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	Nickel	0.002	mg/L	6020A	U	Metals	REG	-	0.002 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	Potassium	390	mg/L	6020A		Metals	REG	-	390	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	Silver	0.00036	mg/L	6020A	U	Metals	REG	-	0.00036 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	Sodium	10000	mg/L	6020A		Metals	REG	-	10000	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	Thallium	0.00025	mg/L	6020A	U	Metals	REG	-	0.00025 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	Antimony	0.004	mg/L	6020A	U	Metals	REG	-	0.004 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	Arsenic	0.0027	mg/L	6020A		Metals	REG	-	0.0027	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	Barium	0.016	mg/L	6020A		Metals	REG	-	0.016	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	Beryllium	0.0006	mg/L	6020A	U	Metals	REG	-	0.0006 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	Cadmium	0.00026	mg/L	6020A	U	Metals	REG	-	0.00026 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	Chromium	0.0025	mg/L	6020A	U	Metals	REG	-	0.0025 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	Cobalt	0.00075	mg/L	6020A		Metals	REG	-	0.00075	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	Copper	0.0011	mg/L	6020A	U	Metals	REG	-	0.0011 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	Vanadium	0.0044	mg/L	6020A	J	Metals	REG	-	0.0044 J	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	Zinc	0.015	mg/L	6020A	J	Metals	REG	-	0.015 J	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	Calcium	390	mg/L	6020A		Metals	REG	-	390	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	Heptachlor	0.0076	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.0076 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	Hexachlorocyclopentadiene	0.51	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.51 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	Selenium	0.0044	mg/L	6020A	U	Metals	REG	-	0.0044 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	Isophorone	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.1 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	Toxaphene, Technical	0.54	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.54 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	Acenaphthene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.1 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	Diethyl phthalate	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.11 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	Di-n-butyl phthalate	0.4	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.4 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	Phenanthrene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.1 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	Butyl benzyl phthalate	0.12	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.12 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	N-Nitrosodiphenylamine	0.38	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.38 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	Fluorene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.1 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	Carbazole	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.1 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	Hexachlorobutadiene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.1 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	Pentachlorophenol	0.41	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.41 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	2,4,6-Trichlorophenol	0.17	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.17 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	2-Nitroaniline	0.16	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.16 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	2-Nitrophenol	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.1 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	Naphthalene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.1 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	2-Methylnaphthalene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.1 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	2-Chloronaphthalene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.1 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	3,3'-Dichlorobenzidine	2	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	2 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	1,1'-Biphenyl	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.1 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	2-Methylphenol	0.76	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.76 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	2-Chlorophenol	0.12	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.12 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	2,4,5-Trichlorophenol	0.12	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.12 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	Endosulfan I	0.0046	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.0046 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	Acetophenone	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.1 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	Nitrobenzene	0.1	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.1 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	3-Nitroaniline	0.16	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.16 U	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	DDT+DDE+DDD	0.0265	µg/L	ESDAT Combined		ESDAT Combined Con	REG	-	0.0265	873443.756	424825.7808		
SW-DMEB-03	8/21/2012		SW	Normal	Toxaphene, TAUC, Parlar 11-69	0.54	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.54 U	873443.756	424825.7808		
SW-DMEB-04	8/21/2012		SW	Normal	4-Nitroaniline	0.56	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.56 U	873443.756	424825.7808		
SW-DMEB-04	8/21/2012		SW	Normal	4-Nitrophenol	0.56	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.56 U	873443.756	424825.7808		
SW-DMEB-04	8/21/2012		SW	Normal	Benzaldehyde	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.11 U	873443.756	424825.7808		
SW-DMEB-04	8/21/2012		SW	Normal	4-Bromophenyl phenyl ether	0.13	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.13 U	873443.756	424825.7808		
SW-DMEB-04	8/21/2012		SW	Normal	Heptachlor epoxide	0.006	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.006 U	873443.756	424825.7808		
SW-DMEB-04	8/21/2012		SW	Normal	Endosulfan sulfate	0.0068	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.0068 U	873443.756	424825.7808		
SW-DMEB-04	8/21/2012		SW	Normal	Caprolactam	0.19	ug/L	8270D_LL	J	GC/MS Semi VOA	REG	-	0.19 J	873443.756	424825.7808		
SW-DMEB-04	8/21/2012		SW	Normal	2,4-Dimethylphenol	0.77	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.77 U	873443.756	424825.7808		
SW-DMEB-04	8/21/2012		SW	Normal	4-Chloroaniline	0.4	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.4 U	873443.756	424825.7808		
SW-DMEB-04	8/21/2012		SW	Normal	2,2'-oxybis[1-chloropropane]	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.11 U	873443.756	424825.7808		
SW-DMEB-04	8/21/2012		SW	Normal	Phenol	0.14	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.14 U	873443.756	424825.7808		

Field_ID	Sampled_Date-Time	Sample_De	Sample_De	Matrix_Ty	Sample_Ty	OriginalChemName	Result	Result_Uni	Method_Name	QA_Flag	Method_Type	Result_Typ	Sample_Dept	Result_Lable	x_coord	y_coord	Elevation
SW-DMEB-04	8/21/2012		SW	Normal	PCB-1260	0.2	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.2 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012		SW	Normal	PCB-1254	0.26	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.26 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012		SW	Normal	PCB-1268	0.26	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.26 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012		SW	Normal	PCB-1221	0.28	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.28 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012		SW	Normal	PCB-1232	0.11	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.11 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012		SW	Normal	Bis(2-chloroethyl)ether	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.11 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012		SW	Normal	Bis(2-chloroethoxy)methane	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.11 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012		SW	Normal	Bis(2-ethylhexyl) phthalate	0.71	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.71 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012		SW	Normal	Di-n-octyl phthalate	0.19	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.19 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012		SW	Normal	Hexachlorobenzene	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.11 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012		SW	Normal	Anthracene	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.11 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012		SW	Normal	2,4-Dichlorophenol	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.11 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012		SW	Normal	2,4-Dinitrotoluene	0.13	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.13 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012		SW	Normal	PCB-1248	0.36	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.36 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012		SW	Normal	PCB-1016	0.071	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.071 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012		SW	Normal	Pyrene	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.11 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012		SW	Normal	Dimethyl phthalate	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.11 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012		SW	Normal	Dibenzofuran	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.11 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012		SW	Normal	3 & 4 Methylphenol	0.73	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.73 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012		SW	Normal	Atrazine	0.39	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.39 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012		SW	Normal	Benzo[g,h,i]perylene	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.11 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012		SW	Normal	Indeno[1,2,3-cd]pyrene	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.11 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012		SW	Normal	Benzo[b]fluoranthene	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.11 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012		SW	Normal	Fluoranthene	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.11 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012		SW	Normal	Benzo[k]fluoranthene	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.11 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012		SW	Normal	Acenaphthylene	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.11 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012		SW	Normal	Chrysene	0.05	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.05 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012		SW	Normal	Aldrin	0.007	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.007 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012		SW	Normal	Aldrin + Dieldrin	0.0161	µg/L	ESDAT Combined		ESDAT Combined Con	REG	-	0.0161	873443.756	424825.7808	
SW-DMEB-04	8/21/2012		SW	Normal	alpha-BHC	0.0057	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.0057 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012		SW	Normal	beta-BHC	0.0067	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.0067 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012		SW	Normal	delta-BHC	0.0048	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.0048 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012		SW	Normal	Endosulfan II	0.0098	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.0098 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012		SW	Normal	4,4'-DDT	0.0097	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.0097 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012		SW	Normal	Benzo[a]pyrene	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.11 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012		SW	Normal	alpha-Chlordane	0.006	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.006 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012		SW	Normal	gamma-Chlordane	0.0051	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.0051 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012		SW	Normal	2,4-Dinitrophenol	1.2	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	1.2 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012		SW	Normal	4,6-Dinitro-2-methylphenol	0.14	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.14 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012		SW	Normal	PCB-1242	0.18	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.18 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012		SW	Normal	Endrin ketone	0.0084	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.0084 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012		SW	Normal	Dibenz(a,h)anthracene	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.11 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012		SW	Normal	Benzo[a]anthracene	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.11 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012		SW	Normal	Cyanide, Total	0.008	mg/L	9012A	J	General Chemistry	REG	-	0.008 J	873443.756	424825.7808	
SW-DMEB-04	8/21/2012		SW	Normal	gamma-BHC (Lindane)	0.0059	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.0059 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012		SW	Normal	4-Chloro-3-methylphenol	0.13	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.13 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012		SW	Normal	Dieldrin	0.0091	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.0091 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012		SW	Normal	2,6-Dinitrotoluene	0.14	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.14 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012		SW	Normal	N-Nitrosodi-n-propylamine	0.14	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.14 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012		SW	Normal	Hexachloroethane	0.56	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.56 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012		SW	Normal	4-Chlorophenyl phenyl ether	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.11 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012		SW	Normal	Endrin	0.0097	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.0097 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012		SW	Normal	Methoxychlor	0.013	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.013 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012		SW	Normal	4,4'-DDD	0.0065	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.0065 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012		SW	Normal	4,4'-DDE	0.0077	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.0077 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012		SW	Normal	Endrin aldehyde	0.016	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.016 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012		SW	Normal	Aluminum	1.4	mg/L	6020A		Metals	REG	-	1.4	873443.756	424825.7808	
SW-DMEB-04	8/21/2012		SW	Normal	Iron	0.96	mg/L	6020A		Metals	REG	-	0.96	873443.756	424825.7808	
SW-DMEB-04	8/21/2012		SW	Normal	Lead	0.001	mg/L	6020A	U	Metals	REG	-	0.001 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012		SW	Normal	Magnesium	1100	mg/L	6020A		Metals	REG	-	1100	873443.756	424825.7808	
SW-DMEB-04	8/21/2012		SW	Normal	Manganese	0.034	mg/L	6020A		Metals	REG	-	0.034	873443.756	424825.7808	
SW-DMEB-04	8/21/2012		SW	Normal	Mercury	0.00012	mg/L	7470A	J	Metals	REG	-	0.00012 J	873443.756	424825.7808	
SW-DMEB-04	8/21/2012		SW	Normal	Nickel	0.004	mg/L	6020A	U	Metals	REG	-	0.004 U	873443.756	424825.7808	

Field_ID	Sampled_Date-Time	Sample_De	Sample_De	Matrix_Ty	Sample_Ty	OriginalChemName	Result	Result_Uni	Method_Name	QA_Flag	Method_Type	Result_Typ	Sample_Depth	Result_Lable	x_coord	y_coord	Elevation
SW-DMEB-04	8/21/2012			SW	Normal	Potassium	360	mg/L	6020A		Metals	REG	-	360	873443.756	424825.7808	
SW-DMEB-04	8/21/2012			SW	Normal	Silver	0.00072	mg/L	6020A	U	Metals	REG	-	0.00072 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012			SW	Normal	Sodium	9300	mg/L	6020A		Metals	REG	-	9300	873443.756	424825.7808	
SW-DMEB-04	8/21/2012			SW	Normal	Thallium	0.0005	mg/L	6020A	U	Metals	REG	-	0.0005 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012			SW	Normal	Antimony	0.008	mg/L	6020A	U	Metals	REG	-	0.008 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012			SW	Normal	Arsenic	0.0031	mg/L	6020A	J	Metals	REG	-	0.0031 J	873443.756	424825.7808	
SW-DMEB-04	8/21/2012			SW	Normal	Barium	0.018	mg/L	6020A	J	Metals	REG	-	0.018 J	873443.756	424825.7808	
SW-DMEB-04	8/21/2012			SW	Normal	Beryllium	0.0006	mg/L	6020A	U	Metals	REG	-	0.0006 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012			SW	Normal	Cadmium	0.00052	mg/L	6020A	U	Metals	REG	-	0.00052 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012			SW	Normal	Chromium	0.005	mg/L	6020A	U	Metals	REG	-	0.005 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012			SW	Normal	Cobalt	0.00092	mg/L	6020A	J	Metals	REG	-	0.00092 J	873443.756	424825.7808	
SW-DMEB-04	8/21/2012			SW	Normal	Copper	0.0022	mg/L	6020A	U	Metals	REG	-	0.0022 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012			SW	Normal	Vanadium	0.013	mg/L	6020A	U	Metals	REG	-	0.013 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012			SW	Normal	Zinc	0.034	mg/L	6020A	U	Metals	REG	-	0.034 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012			SW	Normal	Calcium	370	mg/L	6020A		Metals	REG	-	370	873443.756	424825.7808	
SW-DMEB-04	8/21/2012			SW	Normal	Heptachlor	0.007	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.007 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012			SW	Normal	Hexachlorocyclopentadiene	0.56	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.56 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012			SW	Normal	Selenium	0.0044	mg/L	6020A	U	Metals	REG	-	0.0044 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012			SW	Normal	Isophorone	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.11 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012			SW	Normal	Toxaphene, Technical	0.5	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.5 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012			SW	Normal	Acenaphthene	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.11 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012			SW	Normal	Diethyl phthalate	0.12	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.12 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012			SW	Normal	Di-n-butyl phthalate	0.43	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.43 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012			SW	Normal	Phenanthrene	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.11 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012			SW	Normal	Butyl benzyl phthalate	0.13	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.13 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012			SW	Normal	N-Nitrosodiphenylamine	0.41	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.41 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012			SW	Normal	Fluorene	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.11 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012			SW	Normal	Carbazole	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.11 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012			SW	Normal	Hexachlorobutadiene	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.11 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012			SW	Normal	Pentachlorophenol	0.44	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.44 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012			SW	Normal	2,4,6-Trichlorophenol	0.19	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.19 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012			SW	Normal	2-Nitroaniline	0.18	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.18 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012			SW	Normal	2-Nitrophenol	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.11 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012			SW	Normal	Naphthalene	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.11 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012			SW	Normal	2-Methylnaphthalene	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.11 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012			SW	Normal	2-Chloronaphthalene	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.11 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012			SW	Normal	3,3'-Dichlorobenzidine	2.2	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	2.2 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012			SW	Normal	1,1'-Biphenyl	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.11 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012			SW	Normal	2-Methylphenol	0.82	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.82 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012			SW	Normal	2-Chlorophenol	0.13	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.13 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012			SW	Normal	2,4,5-Trichlorophenol	0.13	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.13 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012			SW	Normal	Endosulfan I	0.0042	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.0042 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012			SW	Normal	Acetophenone	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.11 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012			SW	Normal	Nitrobenzene	0.11	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.11 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012			SW	Normal	3-Nitroaniline	0.18	ug/L	8270D_LL	U	GC/MS Semi VOA	REG	-	0.18 U	873443.756	424825.7808	
SW-DMEB-04	8/21/2012			SW	Normal	DDT+DDE+DDD	0.0239	µg/L	ESDAT Combined		ESDAT Combined Con	REG	-	0.0239	873443.756	424825.7808	
SW-DMEB-04	8/21/2012			SW	Normal	Total Suspended Solids	43	mg/L	160.2		General Chemistry	REG	-	43	873443.756	424825.7808	
SW-DMEB-04	8/21/2012			SW	Normal	Toxaphene, TAUC, Parlar 11-69	0.5	ug/L	8081B_8082A	U	GC Semi VOA	REG	-	0.5 U	873443.756	424825.7808	