


Voluntary Investigation and Remediation Plan Application Form and Checklist

VRP APPLICANT INFORMATION					
COMPANY NAME	NL Industries, Inc.				
CONTACT PERSON/TITLE	Kevin Lombardozzi, Director Environmental Management				
ADDRESS	Three Lincoln Center, 5430 LBJ Freeway, Suite 1700, Dallas, TX 75240-2697				
PHONE	972-448-1480	FAX		E-MAIL	klombardozzi@valhi.net
GEORGIA CERTIFIED PROFESSIONAL GEOLOGIST OR PROFESSIONAL ENGINEER OVERSEEING CLEANUP					
NAME	Giselle M. Beaulieu		GA PE/PG NUMBER	PG 1847	
COMPANY	WSP USA Inc.				
ADDRESS	1740 Massachusetts Avenue, Boxborough, MA 01719				
PHONE	617-210-1667	FAX		E-MAIL	gigi.beaulieu@wsp.com
APPLICANT'S CERTIFICATION					
<p>In order to be considered a qualifying property for the VRP:</p> <p>(1) The property must have a release of regulated substances into the environment;</p> <p>(2) The property shall not be:</p> <p style="margin-left: 20px;">(A) Listed on the federal National Priorities List pursuant to the federal Comprehensive Environmental Response, Compensation, and Liability Act, 42 U.S.C. Section 9601.</p> <p style="margin-left: 20px;">(B) Currently undergoing response activities required by an order of the regional administrator of the federal Environmental Protection Agency; or</p> <p style="margin-left: 20px;">(C) A facility required to have a permit under Code Section 12-8-66.</p> <p>(3) Qualifying the property under this part would not violate the terms and conditions under which the division operates and administers remedial programs by delegation or similar authorization from the United States Environmental Protection Agency.</p> <p>(4) Any lien filed under subsection (e) of Code Section 12-8-96 or subsection (b) of Code Section 12-13-12 against the property shall be satisfied or settled and released by the director pursuant to Code Section 12-8-94 or Code Section 12-13-6.</p> <p>In order to be considered a participant under the VRP:</p> <p style="margin-left: 20px;">(1) The participant must be the property owner of the voluntary remediation property or have express permission to enter another's property to perform corrective action.</p> <p style="margin-left: 20px;">(2) The participant must not be in violation of any order, judgment, statute, rule, or regulation subject to the enforcement authority of the director.</p> <p>I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system 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 is, to the best of my knowledge and belief, 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.</p> <p>I also certify that this property is eligible for the Voluntary Remediation Program (VRP) as defined in Code Section 12-8-105 and I am eligible as a participant as defined in Code Section 12-8-106.</p>					
APPLICANT'S SIGNATURE					
APPLICANT'S NAME/TITLE (PRINT)	Kevin Lombardozzi, Director Environmental Management			DATE	05/24/2018

QUALIFYING PROPERTY INFORMATION (For additional qualifying properties, please refer to the last page of application form)			
HAZARDOUS SITE INVENTORY INFORMATION (if applicable)			
HSI Number	10732	Date HSI Site listed	3/5/2002
HSI Facility Name	Former National Smelting & Refining Site	NAICS CODE	Not applicable – site is vacant
PROPERTY INFORMATION			
TAX PARCEL ID	17-0148-LL0081	PROPERTY SIZE (ACRES)	2.02
PROPERTY ADDRESS	400 Bishop St NW		
CITY	Atlanta	COUNTY	Fulton
STATE	GA	ZIPCODE	30318
LATITUDE (decimal format)	33.7928	LONGITUDE (decimal format)	84.4019
PROPERTY OWNER INFORMATION			
PROPERTY OWNER(S)	Fabric Developers, LLC	PHONE #	Jerrold Miller, 404-275-3980
MAILING ADDRESS	403 W. Ponce de Leon, Suite 104		
CITY	Decatur	STATE/ZIPCODE	GA 30030
ITEM #	DESCRIPTION OF REQUIREMENT	Location in VRP (i.e. pg., Table #, Figure #, etc.)	For EPD Comment Only (Leave Blank)
1.	\$5,000 APPLICATION FEE IN THE FORM OF A CHECK PAYABLE TO THE GEORGIA DEPARTMENT OF NATURAL RESOURCES. (PLEASE LIST CHECK DATE AND CHECK NUMBER IN COLUMN TITLED "LOCATION IN VRP." PLEASE DO NOT INCLUDE A SCANNED COPY OF CHECK IN ELECTRONIC COPY OF APPLICATION.)	Attached to cover letter	
2.	WARRANTY DEED(S) FOR QUALIFYING PROPERTY.	Appendix B of VR Plan	
3.	TAX PLAT OR OTHER FIGURE INCLUDING QUALIFYING PROPERTY BOUNDARIES, ABUTTING PROPERTIES, AND TAX PARCEL IDENTIFICATION NUMBER(S).	Appendix A of VR Plan	
4.	ONE (1) PAPER COPY AND TWO (2) COMPACT DISC (CD) COPIES OF THE VOLUNTARY REMEDIATION PLAN IN A SEARCHABLE PORTABLE DOCUMENT FORMAT (PDF).	Attached	
5.	The VRP participant's initial plan and application must include, using all reasonably available current information to the extent known at the time of application, a graphic three-dimensional preliminary conceptual site model (CSM) including a preliminary remediation plan with a table of delineation standards, brief supporting text, charts, and figures (no more than 10 pages, total) that illustrates the site's surface and subsurface setting, the known or suspected source(s) of contamination, how contamination might move within the environment, the potential human health and ecological receptors, and the complete or incomplete exposure pathways that may exist at the site; the preliminary CSM must be updated as the investigation and remediation progresses and an up-to-date CSM must be included in each semi-annual status report submitted to the director by the participant; a PROJECTED	CSM – Section 6 and Appendix D Milestone Schedule – Section 5	

	<p>annual status report to the director describing implementation of the plan during the preceding period. A Gantt chart format is preferred for the milestone schedule.</p> <p>The following four (4) generic milestones are required in all initial plans with the results reported in the participant's next applicable semi-annual reports to the director. The director may extend the time for or waive these or other milestones in the participant's plan where the director determines, based on a showing by the participant, that a longer time period is reasonably necessary:</p>		
5.a.	Within the first 12 months after enrollment, the participant must complete horizontal delineation of the release and associated constituents of concern on property where access is available at the time of enrollment;	Completed	
5.b.	Within the first 24 months after enrollment, the participant must complete horizontal delineation of the release and associated constituents of concern extending onto property for which access was not available at the time of enrollment;	Not applicable	
5.c.	Within 30 months after enrollment, the participant must update the site CSM to include vertical delineation, finalize the remediation plan and provide a preliminary cost estimate for implementation of remediation and associated continuing actions; and	Not applicable	
5.d.	Within 60 months after enrollment, the participant must submit the compliance status report required under the VRP, including the requisite certifications.	The CSR is provided with the VRP Application	
	<p>SIGNED AND SEALED PE/PG CERTIFICATION AND SUPPORTING DOCUMENTATION:</p> <p>"I certify under penalty of law that this report and all attachments were prepared by me or under my direct supervision in accordance with the Voluntary Remediation Program Act (O.C.G.A. Section 12-8-101, <u>et seq.</u>). I am a professional engineer/professional geologist who is registered with the Georgia State Board of Registration for Professional Engineers and Land Surveyors/Georgia State Board of Registration for Professional Geologists and I have the necessary experience and am in charge of the investigation and remediation of this release of regulated substances.</p> <p>Furthermore, to document my direct oversight of the Voluntary Remediation Plan development, implementation of corrective action, and long term monitoring, I have attached a monthly summary of hours invoiced and description of services provided by me to the Voluntary Remediation Program participant since the previous submittal to the Georgia Environmental Protection Division.</p> <p>The information submitted is, to the best of my knowledge and belief, 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."</p> <p><u>Giselle M Beaulieu, PG 1847</u> Printed Name and GA PE/PG Number</p> <p><u>Giselle M Beaulieu</u> Signature and Stamp</p> <p><u>5/25/2018</u> Date</p>		

ADDITIONAL QUALIFYING PROPERTIES (COPY THIS PAGE AS NEEDED)

PROPERTY INFORMATION			
TAX PARCEL ID	17-0148-LL0073	PROPERTY SIZE (ACRES)	1.12
PROPERTY ADDRESS	430 Bishop St NW		
CITY	Atlanta	COUNTY	Fulton
STATE	GA	ZIPCODE	30318
LATITUDE (decimal format)	33.7928	LONGITUDE (decimal format)	84.4019
PROPERTY OWNER INFORMATION			
PROPERTY OWNER(S)	Fabric Developers, LLC	PHONE #	Jerrold Miller, 404-275-3980
MAILING ADDRESS	403 W. Ponce de Leon, Suite 104		
CITY	Decatur	STATE/ZIPCODE	GA 30030

PROPERTY INFORMATION			
TAX PARCEL ID	17-0148-LL0099	PROPERTY SIZE (ACRES)	0.72
PROPERTY ADDRESS	Mecaslin St NW		
CITY	Atlanta	COUNTY	Fulton
STATE	GA	ZIPCODE	30318
LATITUDE (decimal format)	33.7928	LONGITUDE (decimal format)	84.4019
PROPERTY OWNER INFORMATION			
PROPERTY OWNER(S)	Norfolk Southern Corporation	PHONE #	Steven Aufdenkampe, 404-582-5185
MAILING ADDRESS	1200 Peachtree St NE – Box 13		
CITY	Atlanta	STATE/ZIPCODE	GA 30309

PROPERTY INFORMATION			
TAX PARCEL ID		PROPERTY SIZE (ACRES)	
PROPERTY ADDRESS			
CITY		COUNTY	
STATE		ZIPCODE	
LATITUDE (decimal format)		LONGITUDE (decimal format)	
PROPERTY OWNER INFORMATION			
PROPERTY OWNER(S)		PHONE #	
MAILING ADDRESS			
CITY		STATE/ZIPCODE	



**VOLUNTARY
REMEDIATION PLAN -
GROUNDWATER
FORMER NATIONAL
SMELTING & REFINING
SITE – ATLANTA, GEORGIA**

NL INDUSTRIES, INC.

PROJECT NO.: 3401065
DATE: AUGUST 1, 2018

WSP
4TH FLOOR
75 ARLINGTON STREET
BOSTON, MA 02116
TEL.: 617-210-1667

WSP.COM



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1 INTRODUCTION

This Voluntary Remediation plan has been prepared for groundwater at the former National Smelting & Refining site at 400-430 Bishop Street NW in Atlanta, Fulton County, Georgia, (the “Main Site”) for entry into the Georgia Voluntary Remediation Program (VRP). Figure 1 shows the Site location.

The purpose of the plan is to provide current information as required by the VRP application with regard to:

- the Site surface and subsurface setting
- known or suspected sources of contamination
- contaminant movement in the environment
- potential human health and ecological receptors
- exposure pathways
- schedule for remediation

The former National Smelting & Refining site operated as a secondary lead smelting facility under several owners from 1914 until 1984. These included United Lead from 1914 to 1926, Georgia Lead from 1926 to 1937, National Lead/NL Industries, Inc. (NL) from 1937 to 1981, and National Smelting & Refining Co. from 1981 to 1984. In 1981, NL sold the property to National Smelting & Refining Co., which continued operating until 1984, when it filed for bankruptcy. Among materials processed at the Site, lead-acid batteries and lead-bearing scrap were accepted for recycling. The lead was separated from the battery casings and refined for reuse. The Site has been inactive since 1984.

The Main Site consists of a 3.14-acre parcel at 400-430 Bishop Street NW, and a 0.72-acre parcel (no address) on the southeastern portion of the Main Site owned by Norfolk Southern Railway Corporation (NSRC; along the railroad tracks). Atlanta Forge and Foundry (AFF) purchased the 3.14-acre parcel in 1989 from the Trustee in Bankruptcy for National Smelting. 400 Bishop, LLC (400 Bishop) bought this property from AFF in January 2018, and is planning to enter the Main Site property into the Brownfield program. The new owners are negotiating with NSRC to acquire the NSRC portion of the Main Site. The State of Georgia, Department of Natural Resources Environmental Protection Division (EPD) conditionally approved the Prospective Purchaser Corrective Action Plan, submitted by Fabric Developers, LLC (Fabric), parent company to 400 Bishop, in November 2017. Soil impacts will be addressed under the Brownfield program.

2 TAX PLAT AND WARRANTY DEEDS

The qualifying properties are 400 Bishop Street NW (Tax parcel 17-0148-LL0081) and 430 Bishop Street NW (Tax parcel 17-0148-LL0073), both currently owned by 400 Bishop LLC and totaling 3.14 acres, and a 0.72-acre parcel on the southeastern and southern portion of the property (no address, Tax parcel 17-0148-LL0099), currently owned by NSRC. These parcels comprise the “Main Site”, for a total of 3.86 acres. The NSRC property extends to the east across Mecaslin Street, known as the “East Swale”, and also extends to the west between the tracks and 450 Bishop Street, known as the “West Swale” (see Figure 2). Although they have not been subdivided, the East Swale and West Swale are not being entered into the VRP because groundwater concentrations on these properties are not above Type 1 standards (used for delineation purposes). A tax plat showing the qualifying properties and adjoining properties is provided in Appendix A.

Copies of the warranty deed for the 400-430 Bishop Street NW properties are provided in Appendix B. The deed for the NSRC property will be provided under separate cover.

3 CONCEPTUAL SITE MODEL

3.1 CHEMICALS OF CONCERN

Investigations at the Site identified concentrations of metals, polycyclic aromatic hydrocarbons (PAHs), and polychlorinated biphenyls (PCBs) in soil above notification concentrations. In June 2000, NSRC submitted a Release Notification Form to the EPD for antimony, arsenic, barium, cadmium, lead, manganese, selenium, thallium, zinc, and benzo(a)pyrene in soil. In August 2000, AFF submitted a notification for arsenic, cadmium, chromium, copper, cobalt, lead, mercury, nickel, silver, thallium, and Aroclor 1254 in soil. Subsequent investigations identified elevated concentrations of metals, aromatic volatile organic compounds (VOCs), and naphthalene in groundwater at the Main Site. A release to groundwater that exceeded a reportable quantity did not occur at the Site.

A total of 522 soil samples collected from all properties comprising the Site were analyzed for metals at Georgia-accredited laboratories, with a subset of 31 samples analyzed for VOCs, PAHs, and/or PCBs. The soil sample depth ranged from 0 to 20 feet below the ground surface (bgs). Table 1 shows the chemicals of concern detected in soil and the Type 1/Type 3 Risk Reduction Standards (RRS), which are included for delineation purposes.

Groundwater samples from 19 monitoring wells were analyzed for metals, with a subset of groundwater samples from 10 monitoring wells analyzed for VOCs and PAHs. Table 2 presents the chemicals of concern detected in groundwater and the Type 1/Type 3 RRS, which are included for delineation purposes.

3.2 HYDROGEOLOGY

The topography of the Main Site slopes from the northwest to the southeast, from an elevation of 916 feet above mean sea level (AMSL) at the northwest corner to 902 feet AMSL at the southeast corner at Mecaslin Street.

There are no surface water bodies on the Main Site. The closest surface water bodies are a storm water detention pond approximately 600 feet southwest (crossgradient), and a reservoir located approximately 2,100 feet west (upgradient).

The Site is located in the Southern Piedmont geologic province. The geology consists of high-grade metamorphic rocks (schists and gneisses) with some post-metamorphic igneous rocks (granite and diabase). These rocks have faults, joints, folds, and other micro- and macro-scale features. Weathered rock with preserved micro- and macro-scale features (saprolite) overlies the bedrock. The saprolite is comprised of clay, clayey to sandy silt, and silty sand to sand, with a thickness of 30 to 40 feet. The bedrock surface slopes to the south: bedrock was encountered at 884.24 feet AMSL on the Main Site (MW-7D) and 868.08 feet AMSL south of the railroad tracks (MW-13D).

Figure 2 presents the Site layout and shows the locations of the monitoring wells, which were installed between 2003 and 2009. The boring logs and monitoring well completion diagrams are provided as Appendix C. Table 3 presents the groundwater elevation data. Groundwater is encountered on the Main Site at approximately 10 feet bgs. Groundwater flows to the southeast at a gradient of 0.03 feet per foot (Figure 3). The gradient is steeper underlying the railroad. Potentiometric surface elevations of groundwater in MW-1, MW-7, and MW-7D indicate a downward gradient, and MW-13, MW-13D, and MW-13DD indicate a slight upward component to groundwater flow.

Borings at the site indicate that fill overlies the saprolite. The fill consists of fine- to coarse-grained sand and gravel, clayey to sandy silt, and fragments of coal, slag, concrete, brick, plastic, and lead. The fill varies in thickness, with the greatest thickness (15 feet) present on the southwest corner of the Main Site. Cross sections illustrating the geology of the Main Site are provided in Appendix D.

3.3 CONTAMINANT SOURCES

Operations on the Main Site consisted of a secondary lead smelting facility. Manifests and other information reviewed indicate that the facility accepted lead dross, sludge, scrap oxide, grindings, scrap solder, remelted cable, mixed lead, battery

plates, scrap lead, scrap chemical lead, babbitt, foundry-type metal and corroding grade lead that was refined for reuse. The facility ceased operations in 1984. Former aboveground storage tanks consisted of a propane storage tank located on the southwest corner of the property, a tank located along the north property boundary, and a large-capacity vertical steel tank (possibly for firefighting water) located on the southeastern corner. These tanks were removed in October 2003. Three underground tanks were removed in December 2003: Tank 1 was 11,000-gallon capacity and was located in a concrete vault along the north property boundary adjacent to Bishop Street. Tank 2 (1,000-gallon) and Tank 3 (350-gallon) formerly contained gasoline and were located south of the “Old Building” on the southwest portion of the property. The gasoline tanks were in poor condition when removed (Removal Action Report, WSP 2004). In July 2009, 0.12 foot of light non-aqueous phase liquid (LNAPL) was measured in MW-6, located 20 feet south of the former gasoline tanks. LNAPL was not observed in MW-6 in May 2018.

3.4 CONTAMINANT DISTRIBUTION IN GROUNDWATER

Groundwater samples were collected from the monitoring wells in January 2003, February 2004, June 2005, May 2006, June 2006, July 2006, May 2009, July 2009, August 2009, and May 2018. The January 2003 samples were submitted to Severn Trent Laboratories, Inc., in Knoxville, Tennessee. Groundwater samples collected from 2004 onward were analyzed by Analytical Environmental Services, Inc. (AES) in Atlanta, Georgia.

The groundwater analytical results are summarized in Table 4 and Appendix E provides copies of the laboratory reports. Concentrations exceeding the RRS (used for delineation purposes) are highlighted in the table. As of May 2018, chemicals of concern detected above the RRS (used for delineation purposes) are:

- Lead at MW-1, MW-7, and MW-8
- Cadmium at MW-2, MW-7D, and MW-14
- Ethylbenzene, toluene, and naphthalene at MW-6

Figures 4 through 10 show the concentrations of benzene, ethylbenzene, toluene, xylene, naphthalene, cadmium, and lead, respectively, in groundwater as of May 2018. Chemicals of concern were below detectable concentrations in the groundwater samples from the monitoring wells located along the northern property boundary, MW-10 across Mecaslin Street, MW-12 on the 450 Bishop Street property adjacent to the west, the monitoring wells located south of the railroad tracks (other than cadmium slightly above the detection limit in the sample from MW-14), and the deep monitoring wells.

3.5 CONTAMINANT FATE AND TRANSPORT

Operations in the former mill buildings and buried materials are the source of metals in soil and groundwater. The former underground gasoline tanks are the source of VOCs and PAHs in soil and groundwater, as well as lead, which was an additive in older gasolines. Contaminant concentrations will mitigate/attenuate over time through the effects of abiotic and biotic transformations (VOCs and some PAHs), as well as dilution and dispersion. The 2018 results show that aromatic VOC concentrations in groundwater in the former underground gasoline tanks area have decreased by almost half since 2009. The concentrations generally are stable or decreasing.

The groundwater flow direction is southeast; therefore, contaminants in groundwater are expected to move southeast. Other than a slight concentration of cadmium, the plumes currently do not extend beyond the Main Site southern property boundary, but if concentrations do move offsite, the offsite groundwater will be collected by the Atlantic Station hydraulic containment system before it could discharge to surface water.

3.6 POTENTIAL HUMAN AND ECOLOGICAL RECEPTORS

The Main Site is located in a light industrial area. It is bordered on the west and north by light industrial or commercial facilities, to the east by residential apartments, and to the south by a major railroad, then residential/commercial properties. The Main Site has been vacant since 1984 and all buildings have been removed, although the concrete foundations remain. Unpaved portions of the property were capped with GCL and fill in 2004, and the cap is inspected and maintained. The only

receptors under current conditions would be maintenance workers, possible utility workers along Bishop Street, and trespassers. Foreseeable future onsite activities include construction activity or utility repairs, and commercial building use. There are no surface water bodies on the Main Site or downgradient of the Main Site; therefore, there are no ecological receptors.

3.7 POTENTIAL EXPOSURE PATHWAYS

3.7.1 DIRECT CONTACT AND INGESTION – HUMAN AND ECOLOGICAL

Most of the property is covered with concrete paving, asphalt paving, or concrete foundations, and is enclosed by chain-link fencing (Figure 2). Unpaved portions of the property were capped with GCL and fill in 2004, and the cap is inspected and maintained. The cap is a barrier to direct contact and prevents infiltration of precipitation which would result in additional leaching of contaminants from soil to groundwater. Direct contact with affected groundwater is incomplete because the groundwater is at least 10 feet bgs (Table 3), too deep for incidental contact by a receptor.

Groundwater is below the depth of typical utility work. In any case, concentrations in groundwater in the monitoring wells installed along Bishop Street meet RRS values (used for delineation purposes); therefore, there is minimal risk to utility workers.

There are no surface water bodies on the Main Site or downgradient; therefore, there is no potential for affected groundwater to be intercepted by a water body and ingested. Any contaminated water migrating from the Main Site would be captured by the Atlantic Station hydraulic containment system before it would discharge to surface water.

The Main Site and surrounding area are served by a municipal water supply system operated by the city of Atlanta. The source of the water is upgradient or crossgradient of the Main Site. A review of available databases indicates there are no water supply wells within 1 mile downgradient of the Main Site. Therefore, human exposure to contaminants in groundwater at the Main Site by ingestion or direct contact is an incomplete exposure pathway. It is planned that a Uniform Environmental Covenant (UEC) will be placed on the Main Site property to prohibit extraction of onsite groundwater for potable or irrigation use.

3.7.2 VAPOR INTRUSION – HUMAN HEALTH

Inhalation of vapors could occur from VOC-affected groundwater; however, there are currently no buildings onsite. It is expected the developer will address the VOC-affected soil, the source of the VOC-affected groundwater, through risk assessment or by installation of a cap, before construction of any building in the former gasoline tanks area.

Any VOC-contaminated water migrating from the Main Site would not affect the residential buildings on the Atlantic Station property because vapor mitigation measures have been implemented for these buildings.

4 REMEDIATION PLAN

The Site was listed on the Hazardous Sites Index for a release to soil that exceeded a reportable quantity. A release to groundwater that exceeded a reportable quantity did not occur at the Site. LNAPL is no longer present in any monitoring well, and there are no downgradient receptors. Consequently, Section 12-8-107.(g)2 of the Georgia Voluntary Remediation Act does not require remediation of groundwater. The extent of chemicals of concern in groundwater has been delineated horizontally and vertically. Therefore, no further action to investigate or remediate groundwater will be conducted under the VRP. The monitoring wells will be properly abandoned and a UEC prohibiting groundwater withdrawal will be implemented for the Main Site.

5 PROJECTED MILESTONE SCHEDULE

A Compliance Status Report for Groundwater, documenting the investigation of groundwater at the Site, is submitted with this VRP application. No further investigation or remediation of groundwater is planned at the Site. Further activities associated with the Site will be abandonment of the monitoring wells by a Georgia-licensed driller, and implementation of a UEC restricting the use or extraction of groundwater beneath the Property for drinking water or other potable uses pursuant to the Georgia Uniform Environmental Covenants Act, O.C.G.A. § 44-16-1 et seq. A draft UEC will be submitted for EPD review.

FIGURES



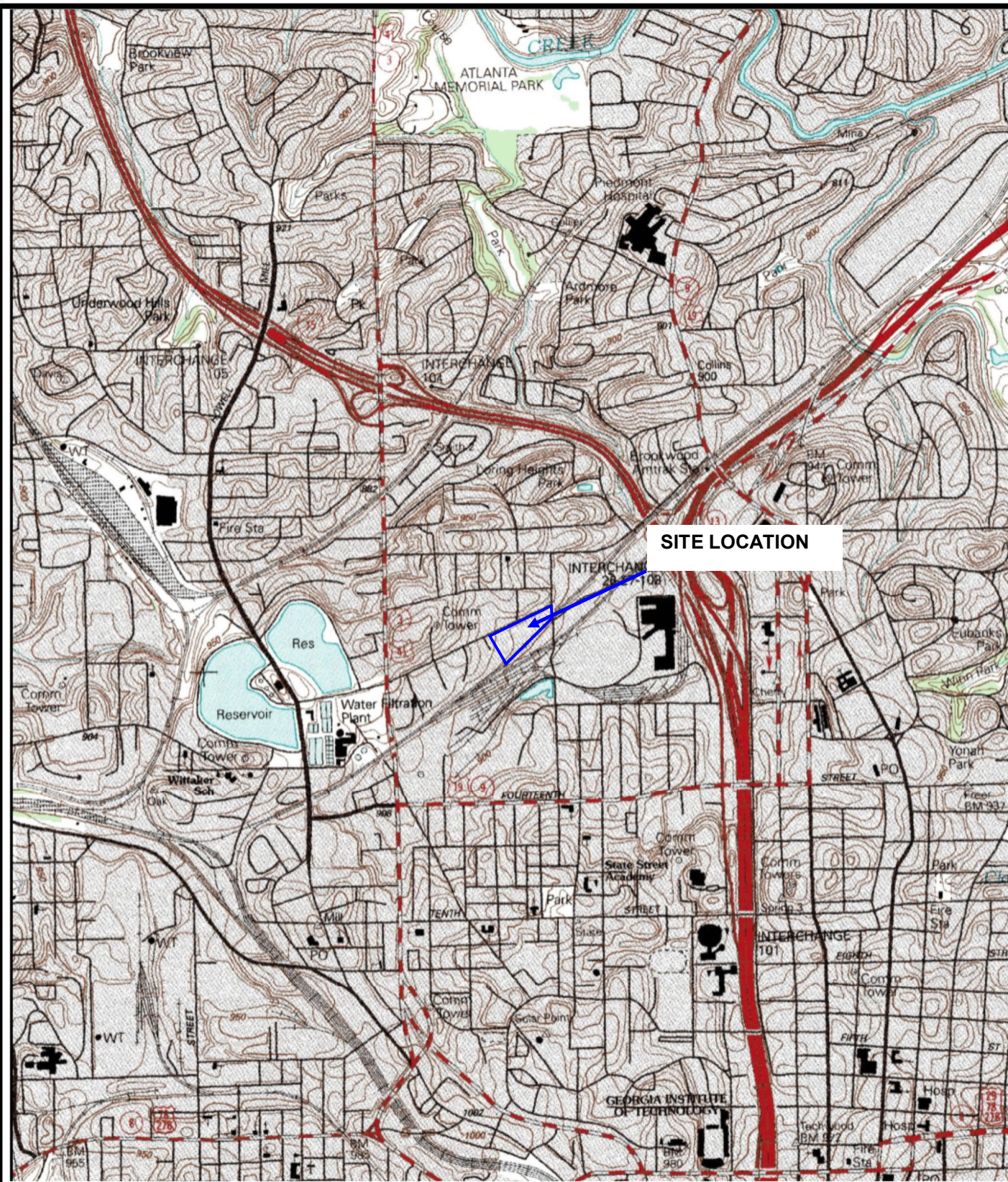
DWG Name:

Checked: DCP 5/18/18

Approved: IMRE 5/18/18

Drawn By: DCP 5/18/18

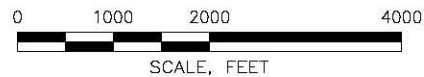
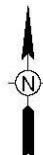
A



REFERENCE:
7.5 MINUTE SERIES TOPOGRAPHIC QUADRANGLE
NORTHWEST ATLANTA, GEORGIA 1995
SCALE 1:24,000



QUADRANGLE LOCATION



SCALE, FEET



WSP USA Inc.
75 ARLINGTON STREET
4TH FLOOR
BOSTON, MA 02116
TEL: +1 617.426.7330

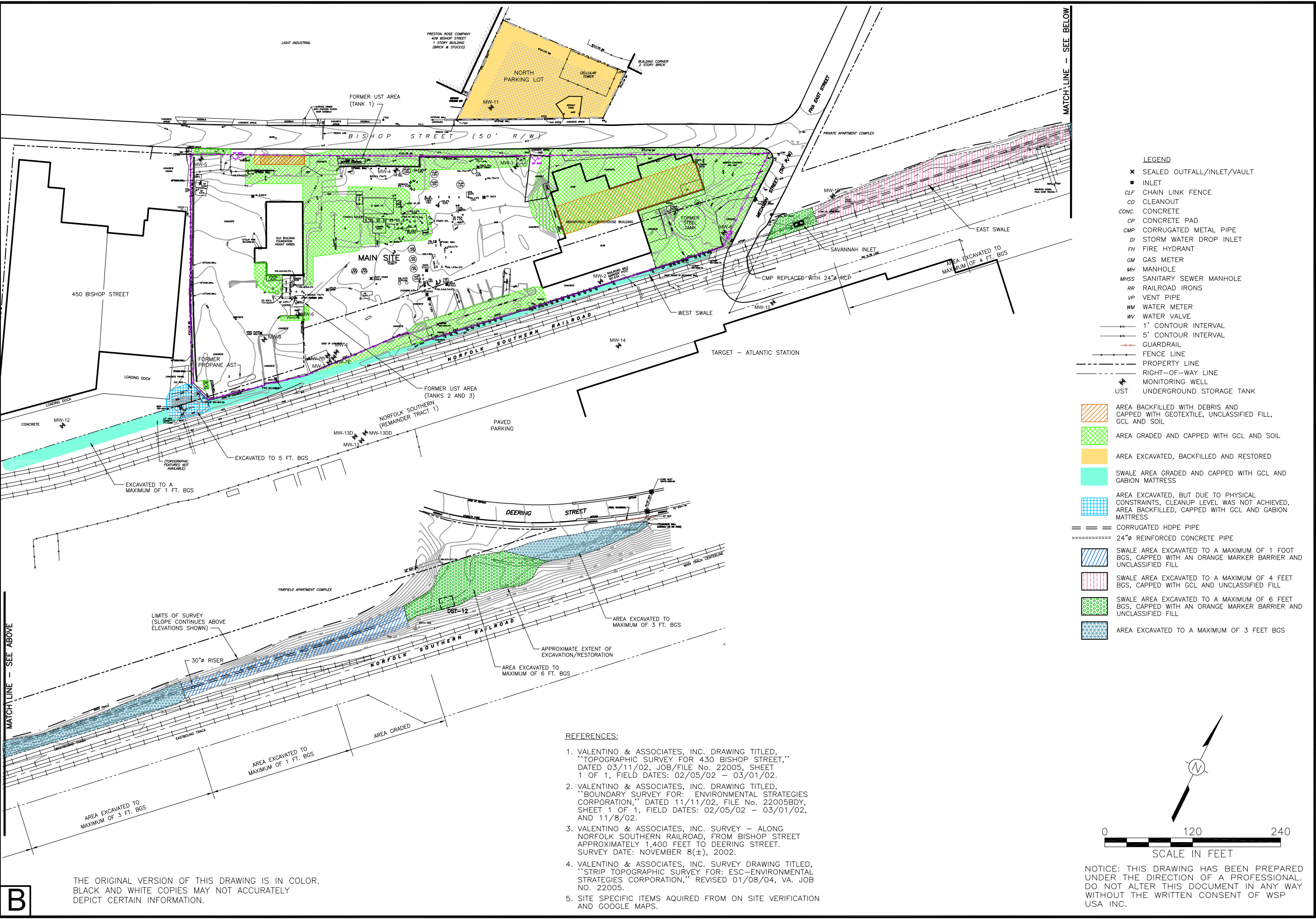
FIGURE 1

SITE LOCATION

FORMER NATIONAL SMELTING & REFINING
ATLANTA, GEORGIA

PREPARED FOR
NL INDUSTRIES
DALLAS, TEXAS

R:\ACAD\CADD\CLIENT\NL Industries\314V1065\CAD\314V1065-003.dwg 5/22/2018 5:35 PM Use01012



REFERENCES:

1. VALENTINO & ASSOCIATES, INC. DRAWING TITLED, "TOPOGRAPHIC SURVEY FOR 430 BISHOP STREET," DATED 03/11/02, JOB/FILE No. 22005, SHEET 1 OF 1, FIELD DATES: 02/05/02 - 03/01/02.
2. VALENTINO & ASSOCIATES, INC. DRAWING TITLED, "BOUNDARY SURVEY FOR: ENVIRONMENTAL STRATEGIES CORPORATION," DATED 11/11/02, FILE No. 22005BDY, SHEET 1 OF 1, FIELD DATES: 02/05/02 - 03/01/02, AND 11/8/02.
3. VALENTINO & ASSOCIATES, INC. SURVEY - ALONG NORFOLK SOUTHERN RAILROAD, FROM BISHOP STREET APPROXIMATELY 1,400 FEET TO DEERING STREET. SURVEY DATE: NOVEMBER 8(±), 2002.
4. VALENTINO & ASSOCIATES, INC. SURVEY DRAWING TITLED, "STRIP TOPOGRAPHIC SURVEY FOR: ESC-ENVIRONMENTAL STRATEGIES CORPORATION," REVISED 01/08/04, VA. JOB NO. 22005.
5. SITE SPECIFIC ITEMS ACQUIRED FROM ON SITE VERIFICATION AND GOOGLE MAPS.

THE ORIGINAL VERSION OF THIS DRAWING IS IN COLOR. BLACK AND WHITE COPIES MAY NOT ACCURATELY DEPICT CERTAIN INFORMATION.

Drawn By: EGC

Checked:

Approved: *GM* 5/22/2018

DWG Name: 314V1065-003

FORMER NATIONAL SMELTING & REFINING SITE

ATLANTA, GEORGIA

PREPARED FOR NL INDUSTRIES

Figure 2

SITE LAYOUT

WSP USA Inc.

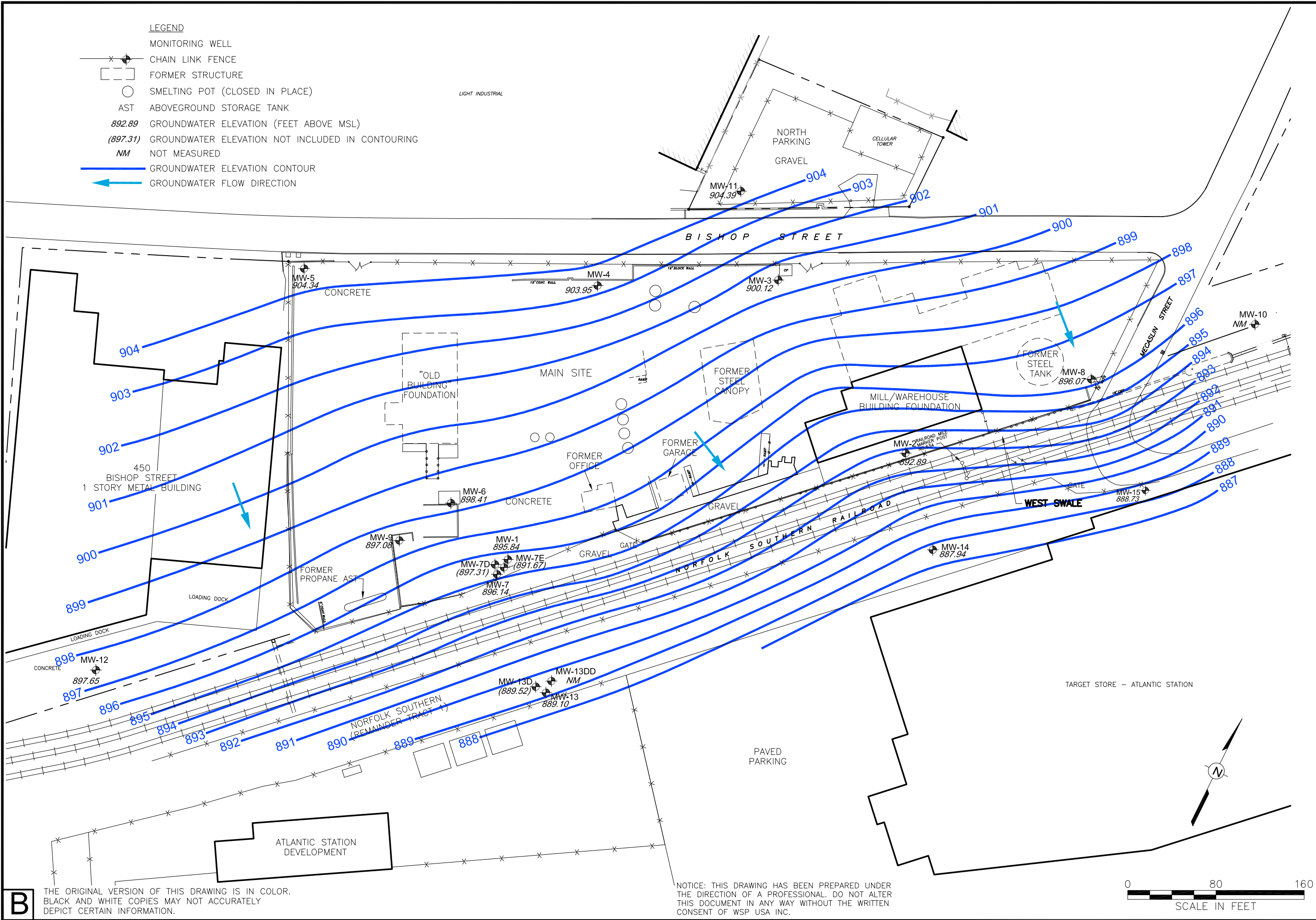
75 ARLINGTON STREET


4th FLOOR

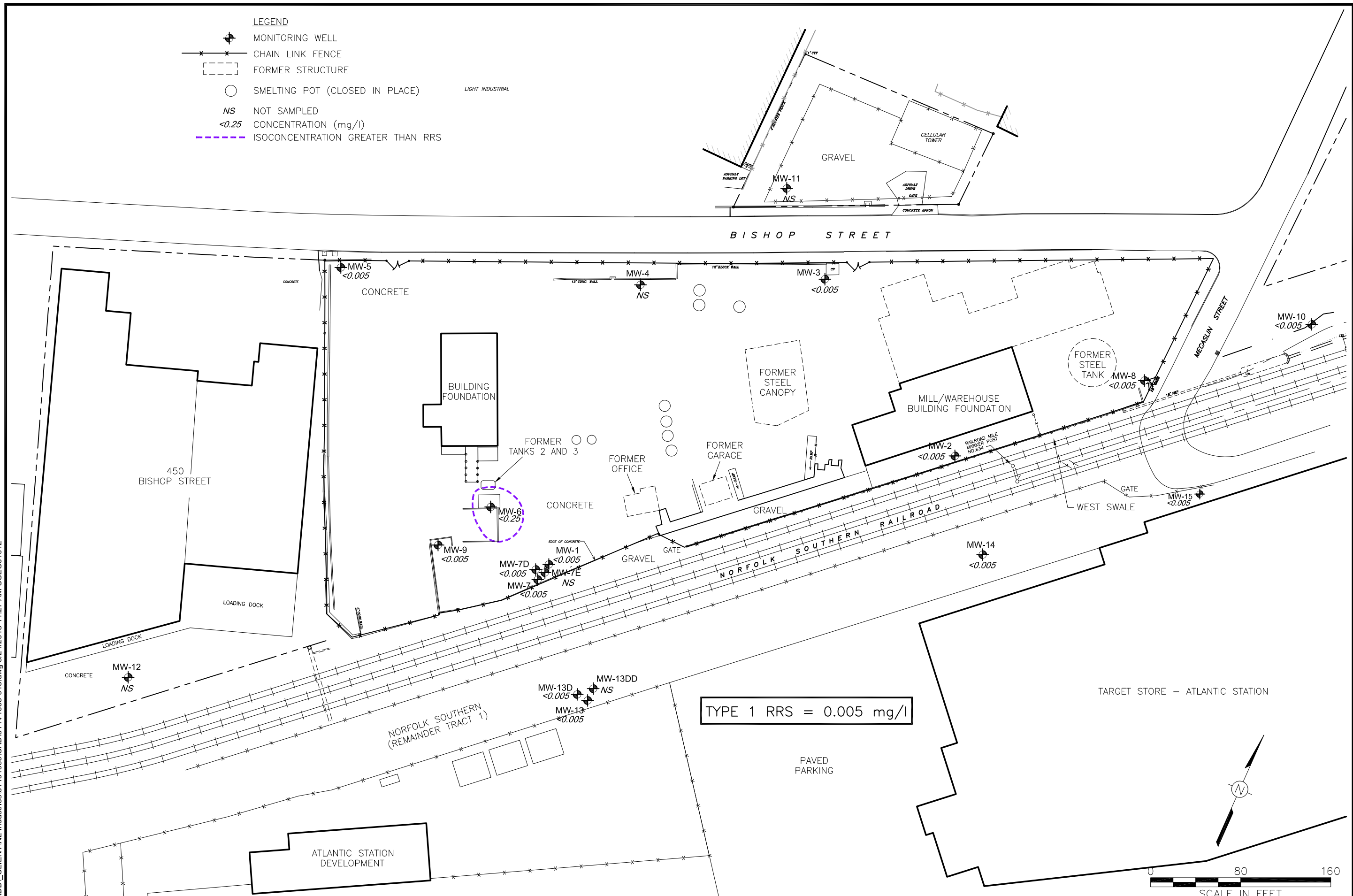
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	ATLANTA, GEORGIA	
Checked:	PREPARED FOR	
Approved: GMB 5/22/2018	NL INDUSTRIES	
DWG Name: 314V1065-004	Figure 3	
GROUNDWATER ELEVATION MAP		
MAY 2018		
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DWG Name: 314V1065-013

FORMER NATIONAL SMELTING & REFINING SITE
ATLANTA, GEORGIA

BENZENE CONCENTRATIONS
IN GROUNDWATER

Figure 4

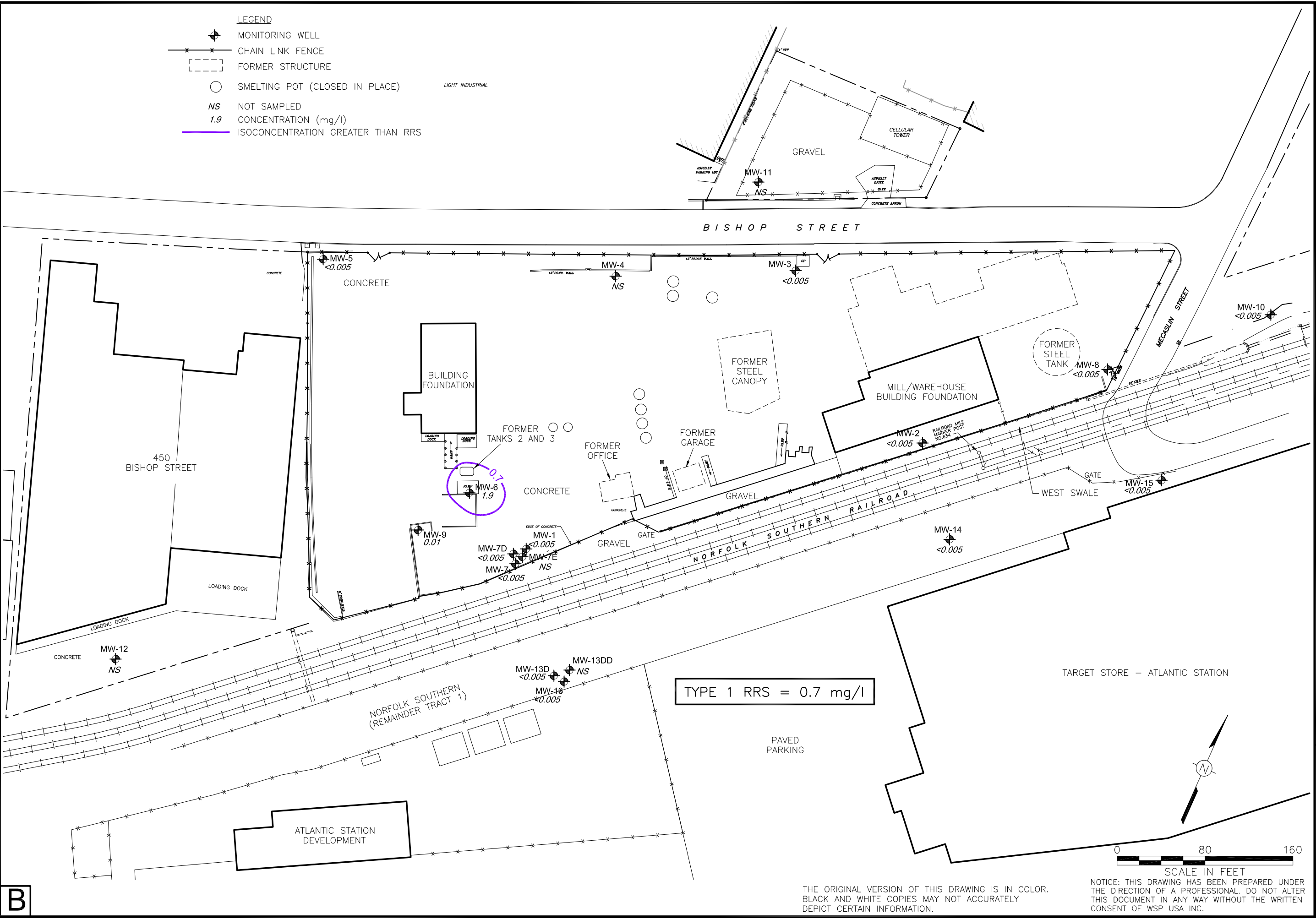
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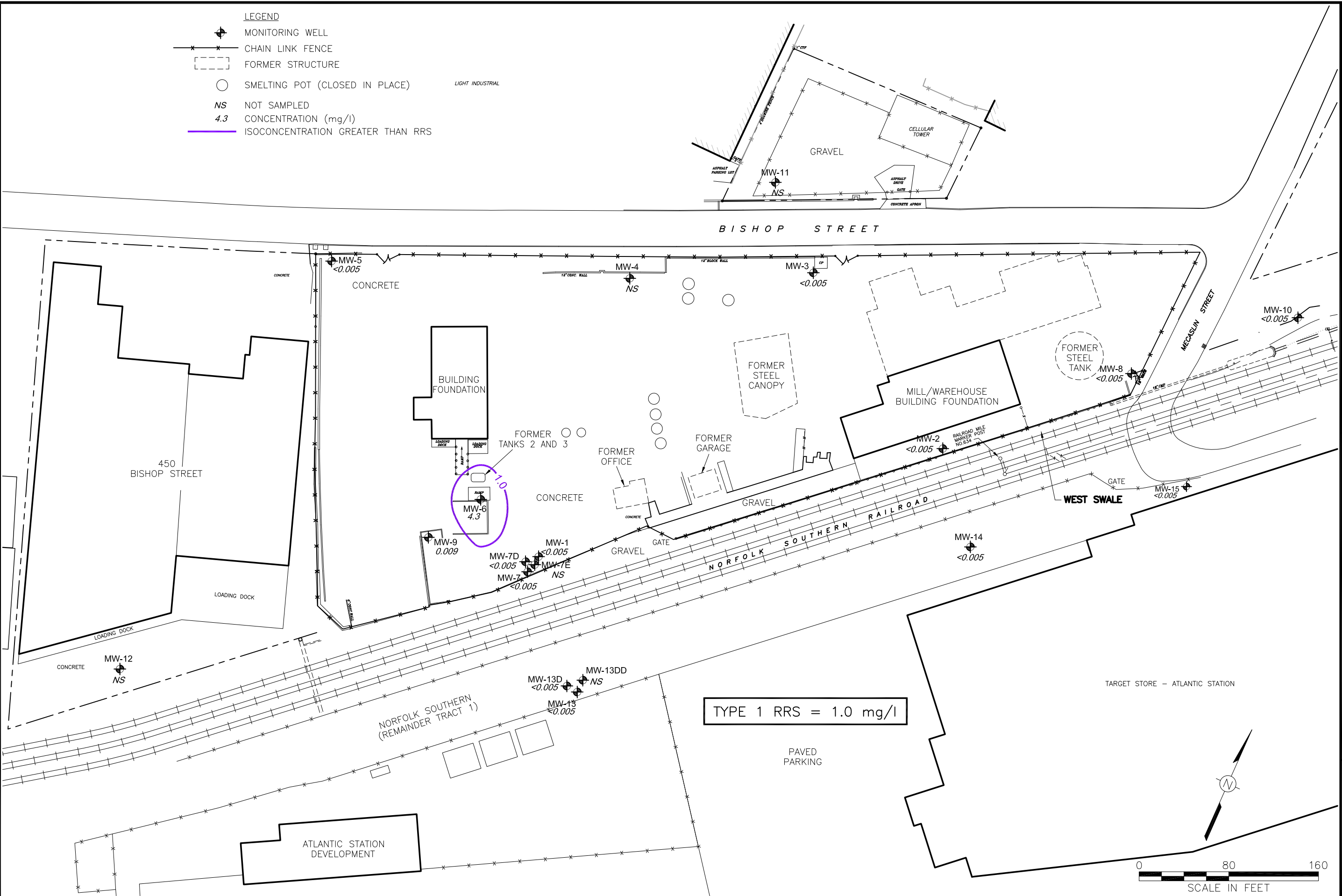
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Drawn By: EGC	FORMER NATIONAL SMELTING & REFINING SITE ATLANTA, GEORGIA PREPARED FOR NL INDUSTRIES	Figure 5 ETHYLBENZENE CONCENTRATIONS IN GROUNDWATER
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B

- LEGEND
- MONITORING WELL
 - CHAIN LINK FENCE
 - FORMER STRUCTURE
 - SMELTING POT (CLOSED IN PLACE)
 - NS NOT SAMPLED
 - 4.3 CONCENTRATION (mg/l)
 - ISOCONCENTRATION GREATER THAN RRS
- LIGHT INDUSTRIAL



FORMER NATIONAL SMELTING & REFINING SITE

ATLANTA, GEORGIA
PREPARED FOR
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Figure 6
TOLUENE CONCENTRATIONS
IN GROUNDWATER

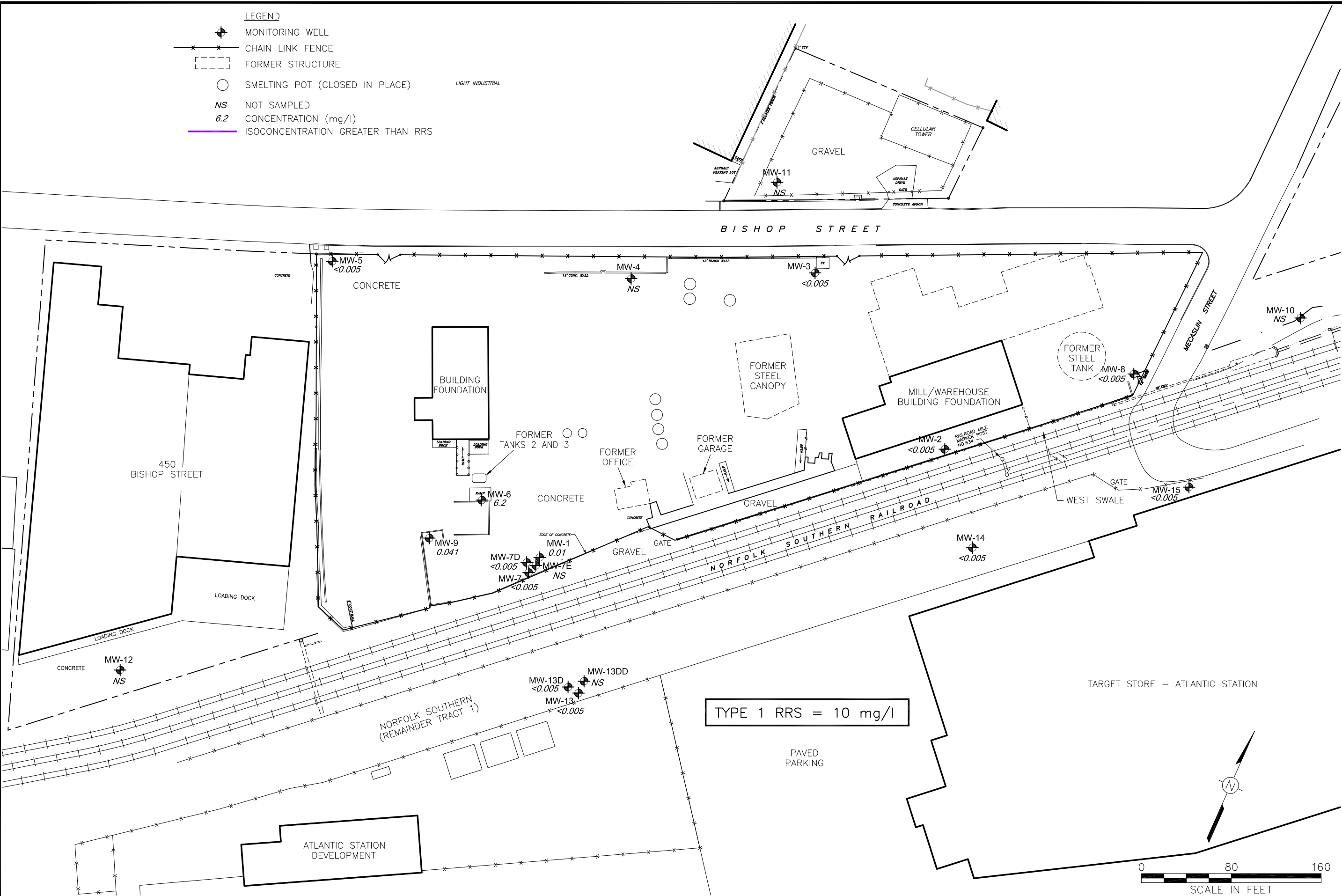
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Figure 7

XYLENE CONCENTRATIONS IN GROUNDWATER

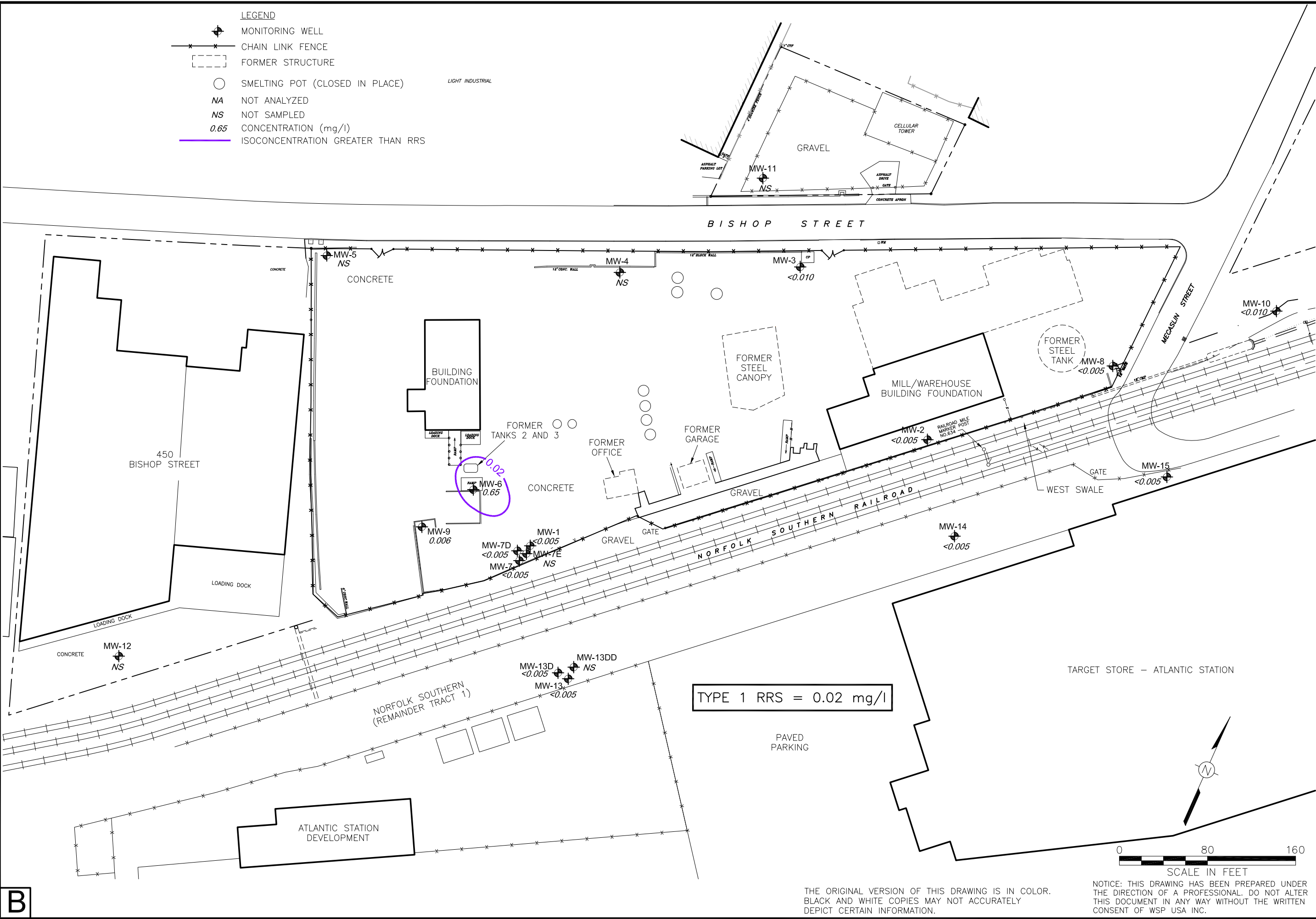
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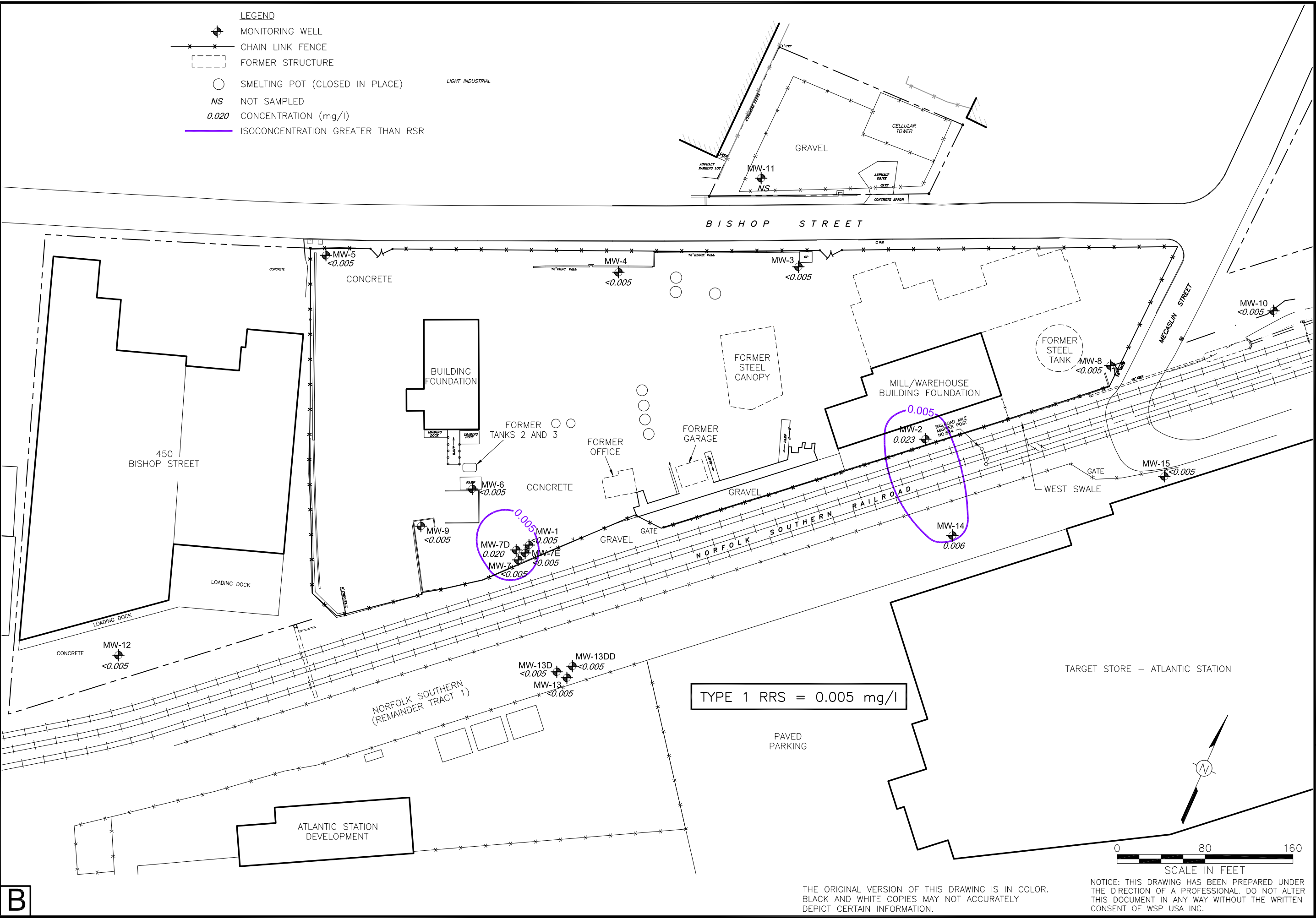
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Figure 8	
NAPHTHALENE CONCENTRATIONS IN GROUNDWATER	
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DWG Name: 314V1065-018		

Figure 9

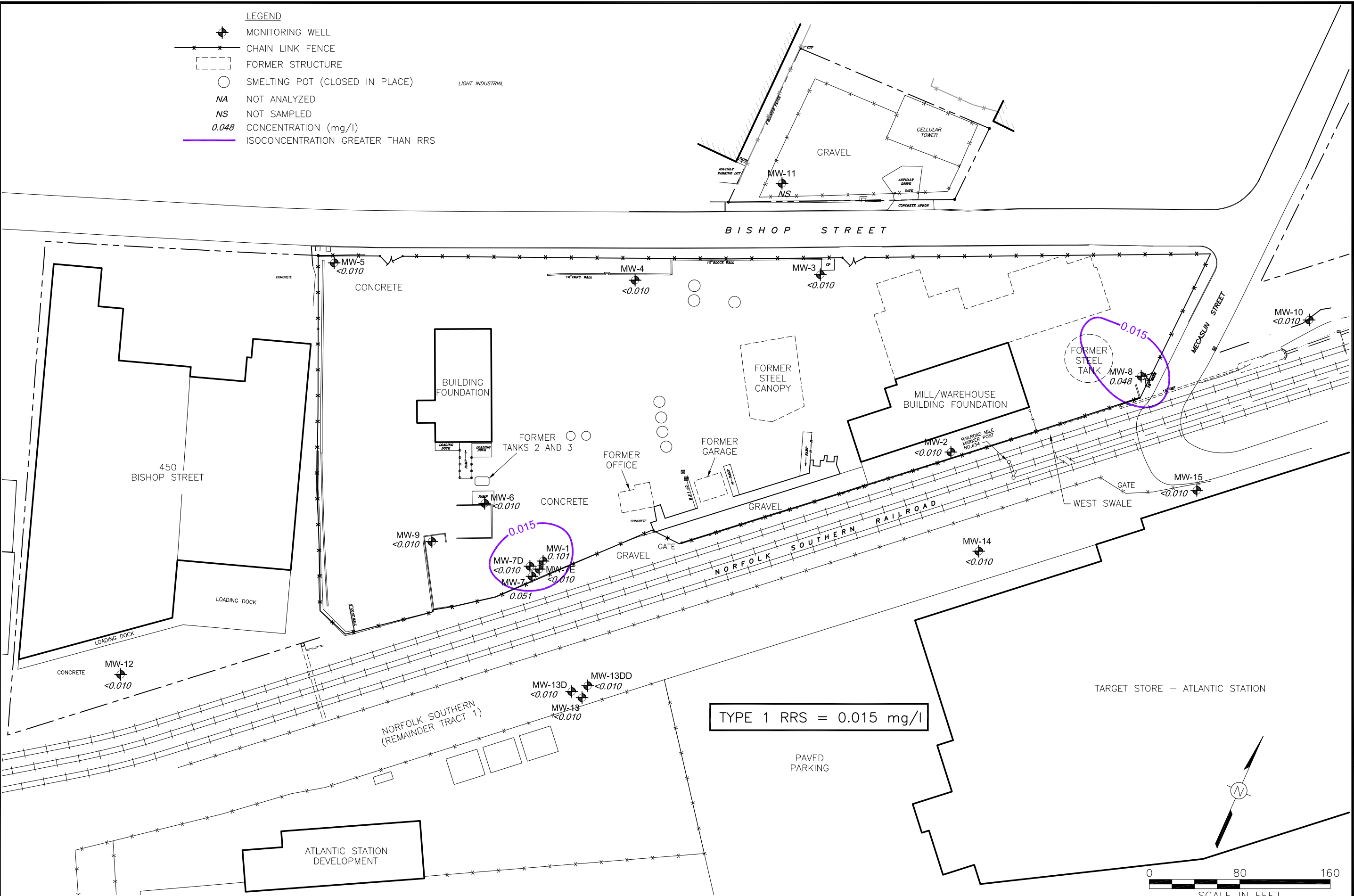
CADMIUM CONCENTRATIONS IN GROUNDWATER

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B

- LEGEND
- MONITORING WELL
 - CHAIN LINK FENCE
 - FORMER STRUCTURE
 - SMELTING POT (CLOSED IN PLACE)
 - NA NOT ANALYZED
 - NS NOT SAMPLED
 - 0.048 CONCENTRATION (mg/l)
 - ISOCONCENTRATION GREATER THAN RRS
- LIGHT INDUSTRIAL



Drawn By: EGC	FORMER NATIONAL SMELTING & REFINING SITE ATLANTA, GEORGIA PREPARED FOR NL INDUSTRIES	Figure 10 LEAD CONCENTRATIONS IN GROUNDWATER
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Approved: GMB 5/24/2018		
DWG Name: 314V1065-019	WSP USA Inc. 75 ARLINGTON STREET 4th FLOOR BOSTON, MA 02116 TEL: +1 617 426 7330	

TABLES



Table 1
Regulated Chemicals of Concern in Soil
Former National Smelting & Refining Site
Atlanta, Georgia

Antimony (Chemical Abstracts Service Registry Number [CASRN]) 7440-36-0)
Arsenic (CASRN 7440-38-2)
Barium (CASRN 7440-39-3)
Cadmium (CASRN 7440-43-9)
Chromium (CASRN 16065-83-1)
Copper (CASRN 7440-50-8)
Lead (CASRN 7439-92-1)
Mercury (CASRN 7439-97-6)
Nickel (CASRN 7440-02-0)
Selenium (CASRN 7782-49-2)
Silver (CASRN 7440-22-4)
Thallium (CASRN 7440-28-0)
Zinc (CASRN 7440-66-6)

Benzene (CASRN 71-43-2)
Ethylbenzene (CASRN 100-41-4)
Toluene (CASRN 108-88-3)
Xylenes (CASRN 1330-20-7)

Benzo(a)pyrene (CASRN 50-32-8)
Naphthalene (CASRN 91-20-3)

Aroclor 1254 (CASRN 11097-69-1)

Table 2
Regulated Chemicals of Concern in Groundwater
Former National Smelting & Refining Site
Atlanta, Georgia

	<u>CASRN Number</u>	<u>Type 1 RRS (mg/l)</u>	<u>Maximum Concentration</u>	<u>Sample</u>
Cadmium	7440-43-9	0.005	0.023	MW-2
Copper	7440-50-8	1.3	0.042	MW-7D
Lead	7439-92-1	0.015	0.101	MW-1
Nickel	7440-02-0	0.1	0.024	MW-2
Zinc	7440-66-6	2	0.692	MW-2
Benzene	71-43-2	0.005	<0.25	MW-6
Ethylbenzene	100-41-4	0.7	1.9	MW-6
Toluene	108-88-3	1	4.3	MW-6
Xylenes	1330-20-7	10	6.2	MW-6
Naphthalene	91-20-3	0.02	0.65	MW-6

Table 3
Water Level Data
Former Nataional Smelting & Refining Site
Atlanta, Georgia (a)

Well	Screened Interval (bgs)	TOC Elevation	January 11, 2003		February 24, 2004		June 19, 2005	
			Depth to Water	Groundwater Elevation	Depth to Water	Groundwater Elevation	Depth to Water	Groundwater Elevation
MW-1	9.2-19.2	906.04	7.60	898.44	9.12	896.92	9.80	896.24
MW-2	15-25	906.14	12.00	894.14	12.17	893.97	12.62	893.52
MW-3	7-17	911.70	NI	--	12.32	899.38	12.15	899.55
MW-4	8-18	909.70	NI	--	NI	--	5.65	904.05
MW-5	12-22	915.69	NI	--	NI	--	11.90	903.79
MW-6	7-17	908.52	NI	--	NI	--	9.30	899.22
MW-7	28-33	905.62	NI	--	NI	--	9.14	896.48
MW-7D	50-60	905.99	NI	--	NI	--	NI	--
MW-8	5-15	905.75	NI	--	NI	--	10.42	895.33
MW-9	9-19	905.82	NI	--	NI	--	NI	--
MW-10	6-16	901.74	NI	--	NI	--	NI	--
MW-11	12-22	916.69	NI	--	NI	--	NI	--
MW-12	9-19	908.95	NI	--	NI	--	NI	--

Table 3 continued
Water Level Data
Former Nantaional Smelting & Refining Site
Atlanta, Georgia (a)

Well	May 24, 2006		June 22, 2006	
	Depth to Water	Groundwater Elevation	Depth to Water	Groundwater Elevation
MW-1	10.41	895.63	11.22	894.82
MW-2	13.42	892.72	14.20	891.94
MW-3	12.50	899.20	13.15	898.55
MW-4	5.88	903.82	6.40	903.30
MW-5	11.93	903.76	12.21	903.48
MW-6	10.58	897.94	11.41	897.11
MW-7	9.70	895.92	11.33	894.29
MW-7D	10.00	895.99	9.96	896.03
MW-8	10.84	894.91	11.72	894.03
MW-9	8.61	897.21	9.51	896.31
MW-10	9.85	891.89	10.95	890.79
MW-11	NI	--	12.95	903.74
MW-12	NI	--	13.55	895.40

Table 3 continued
Water Level Data
Former Natlional Smelting & Refining Site
Atlanta, Georgia (a)

Well	Screened Interval (bgs)	TOC Elevation	May 27, 2009		July 7, 2009		August 12, 2009	
			Depth to Water	Groundwater Elevation	Depth to Water	Groundwater Elevation	Depth to Water	Groundwater Elevation
MW-1	9.2-19.2	906.04	13.86	892.18	14.59	891.45	nm	--
MW-2	15-25	906.14	15.17	890.97	16.59	889.55	nm	--
MW-3	7-17	911.70	13.92	897.78	14.40	897.30	nm	--
MW-4	8-18	909.70	7.55	902.15	7.72	901.98	nm	--
MW-5	12-22	915.69	12.68	903.01	12.83	902.86	nm	--
MW-6	7-17	908.52	14.50	894.02	14.71	893.81	nm	--
MW-7	28-33	905.62	13.30	892.32	14.04	891.58	nm	--
MW-7D	50-60	905.99	13.27	892.72	13.81	892.18	nm	--
MW-7E	80-90	906.05	18.40	887.65	18.82	887.23	nm	--
MW-8	5-15	905.75	11.46	894.29	12.90	892.85	nm	--
MW-9	9-19	905.82	12.40	893.42	13.12	892.70	nm	--
MW-10	6-16	901.74	9.45	892.29	11.79	889.95	nm	--
MW-11	12-22	916.69	nm	--	14.46	902.23	nm	--
MW-12	9-19	908.95	nm	--	17.81	891.14	nm	--
MW-13	15-25	904.12	NI	--	19.39	884.73	nm	--
MW-13D	28-33	903.60	NI	--	NI	--	18.83	884.77
MW-13DD	40-50	903.67	NI	--	NI	--	19.02	884.65
MW-14	15-25	900.64	NI	--	15.03	885.61	nm	--
MW-15	10-20	897.35	NI	--	11.14	886.21	nm	--

Table 3 continued
Water Level Data
Former Nantaional Smelting & Refining Site
Atlanta, Georgia (a)

Well	Screened Interval (bgs)	TOC Elevation	March 16, 2018		May 14, 2018	
			Depth to Water	Groundwater Elevation	Depth to Water	Groundwater Elevation
MW-1	9.2-19.2	906.04	9.29	896.75	10.20	895.84
MW-2	15-25	906.14	12.03	894.11	13.25	892.89
MW-3	7-17	911.70	nm	--	11.58	900.12
MW-4	8-18	909.70	nm	--	5.75	903.95
MW-5	12-22	915.69	11.36	904.33	11.35	904.34
MW-6	7-17	908.52	9.35	899.17	10.11	898.41
MW-7	28-33	905.62	8.62	897.00	9.48	896.14
MW-7D	50-60	905.99	8.57	897.42	8.68	897.31
MW-7E	80-90	906.05	14.01	892.04	14.38	891.67
MW-8	5-15	905.75	6.52	899.23	9.68	896.07
MW-9	9-19	905.82	7.88	897.94	8.74	897.08
MW-10	6-16	901.74	nm	--	nm	--
MW-11	12-22	916.69	nm	--	12.30	904.39
MW-12	9-19	908.95	nm	--	11.30	897.65
MW-13	15-25	904.12	nm	--	15.02	889.10
MW-13D	28-33	903.60	nm	--	14.08	889.52
MW-13DD	40-50	903.67	nm	--	nm	--
MW-14	15-25	900.64	nm	--	12.70	887.94
MW-15	10-20	897.35	nm	--	8.62	888.73

a/ Elevations are measured in feet, relative to the National Geodetic Vertical datum of 1929.

Measured from top of casing (TOC). NI = not installed; bgs = below ground surface; nm = not measured.

Surveyed by Valentino & Associates, Inc. (2004-2006) and BSI Engineering Services, Inc. (2009).

Table 4

Groundwater Sampling Results (a)
Former National Smelting & Refining Site
Atlanta, Georgia

Date	MW-1 1/11/03	MW-1 2/24/04	MW-D (b) 2/24/04	MW-1 6/19/05	MW-1 5/24/06	MW-1 5/27/09	MW-1 5/12/18	MW-2 1/11/03	MW-2 2/24/04	MW-2 6/19/05	MW-2 5/24/06	MW-2 5/27/09	MW-2 5/11/18
Metals (mg/l)													
Antimony	<0.060	<0.020	<0.020	<0.020	NA	NA	NA	<0.060	<0.020	<0.020	NA	NA	NA
Arsenic	<0.010	<0.050	<0.050	<0.050	NA	NA	NA	<0.010	<0.050	<0.050	NA	NA	NA
Cadmium	0.009	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.016	0.019	0.023	0.018	0.033	0.023
Chromium	NA	<0.010	<0.010	NA	NA	NA	NA	NA	<0.010	NA	NA	NA	NA
Cobalt	NA	0.027	0.027	0.028	NA	NA	NA	NA	0.030	0.040	NA	NA	NA
Copper	NA	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	NA	0.013	0.022	0.012	0.015	0.011
Lead	0.045	0.166	0.156	0.107	0.023	0.023	0.101	0.029	<0.010	0.020	<0.010	<0.010	<0.010
Manganese	NA	4.88	4.85	NA	NA	NA	NA	NA	1.83	NA	NA	NA	NA
Mercury	NA	<0.0002	<0.0002	NA	NA	NA	NA	NA	<0.0002	NA	NA	NA	NA
Nickel	NA	<0.020	<0.020	NA	NA	NA	NA	NA	0.024	NA	NA	NA	NA
Selenium	NA	NA	NA	<0.020	NA	NA	NA	NA	NA	<0.020	NA	NA	NA
Silver	NA	<0.010	<0.010	<0.010	NA	NA	NA	NA	<0.010	<0.010	NA	NA	NA
Thallium	<0.010	<0.020	<0.020	<0.020	NA	NA	NA	<0.010	<0.020	<0.020	NA	NA	NA
Zinc	NA	0.025	0.024	0.026	<0.020	<0.020	0.031	NA	0.550	0.710	0.549	0.849	0.692
VOCs (mg/l)	NA							NA		NA			NA
Benzene		<0.005	<0.005	0.051	0.056	0.016	<0.005		<0.005		<0.005	<0.005	
Cyclohexane		<0.005	<0.005	NA	0.056	NA	NA		<0.005		<0.005	NA	
Ethylbenzene		<0.005	<0.005	0.029	0.061	<0.005	<0.005		<0.005		<0.005	<0.005	
Isopropylbenzene		<0.005	<0.005	NA	0.011	NA	NA		<0.005		<0.005	NA	
Methylcyclohexane		<0.005	<0.005	NA	0.025	NA	NA		<0.005		<0.005	NA	
Methyl tert butyl ether		NA	NA	NA	NA	<0.005	<0.005		NA		NA	<0.005	
Toluene		<0.005	<0.005	0.014	0.033	<0.005	<0.005		<0.005		<0.005	<0.005	
Xylenes		<0.005	<0.005	0.230	0.425	<0.005	0.010		<0.005		<0.005	<0.005	
PAHs (mg/l)	NA							NA		NA			NA
Naphthalene		<0.010	<0.010	0.031	0.040	<0.005	<0.005		<0.010		<0.010	<0.005	
1-Methylnaphthalene		<0.010	<0.010	<0.010	0.011	NA	NA		<0.010		NA	NA	
2-Methylnaphthalene		<0.010	<0.010	<0.010	0.011	NA	NA		<0.010		NA	NA	
Other PAHs		<0.010	<0.010	<0.010	<0.010	NA	NA		<0.010		NA	NA	

Table 4
Groundwater Sampling Results (a)
Former National Smelting & Refining Site
Atlanta, Georgia

Date	<u>MW-3</u> 2/24/04	<u>MW-3</u> 6/19/05	<u>MW-3</u> 5/23/06	<u>MW-3</u> 5/27/09	<u>MW-4</u> 6/19/05	<u>MW-4</u> 5/23/06	<u>MW-4</u> 5/27/09	<u>MW-5</u> 6/19/05	<u>MW-5</u> 5/23/06	<u>MW-5</u> 5/27/09
Metals (mg/l)										
Antimony	<0.020	<0.020	NA	NA	<0.020	NA	NA	<0.020	NA	NA
Arsenic	<0.050	<0.050	NA	NA	<0.050	NA	NA	<0.050	NA	NA
Cadmium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chromium	<0.010	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	<0.020	<0.020	NA	NA	<0.020	NA	NA	<0.020	NA	NA
Copper	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.029	<0.010	<0.010
Lead	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.065	<0.010	<0.010
Manganese	0.078	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	<0.0002	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	<0.020	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	<0.020	NA	NA	<0.020	NA	NA	<0.020	NA	NA
Silver	<0.010	<0.010	NA	NA	<0.010	NA	NA	<0.010	NA	NA
Thallium	<0.020	<0.020	NA	NA	<0.020	NA	NA	<0.020	NA	NA
Zinc	0.255	0.590	0.999	0.070	<0.020	<0.020	<0.020	0.038	<0.020	<0.020
VOCs (mg/l)		NA	NA	NA	NA	NA	NA			NA
Benzene	<0.005							<0.001	<0.005	
Cyclohexane	<0.005							NA	<0.005	
Ethylbenzene	<0.005							<0.001	<0.005	
Isopropylbenzene	<0.005							NA	<0.005	
Methylcyclohexane	<0.005							NA	<0.005	
Methyl tert butyl ether	NA							NA	NA	
Toluene	<0.005							<0.001	<0.005	
Xylenes	<0.005							<0.001	<0.005	
PAHs (mg/l)		NA	NA	NA	NA	NA	NA			
Naphthalene	<0.010							<0.010	<0.010	NA
1-Methylnaphthalene	<0.010							<0.010	<0.010	
2-Methylnaphthalene	<0.010							<0.010	<0.010	
Other PAHs	<0.010							<0.010	<0.010	

Table 4

Groundwater Sampling Results (a)
Former National Smelting & Refining Site
Atlanta, Georgia

Date	<u>MW-6</u> 6/19/05	<u>MW-D</u> (b) 6/19/05	<u>MW-6</u> 5/25/06	<u>MW-100</u> (b) 5/25/06	<u>MW-6</u> 5/28/09	<u>MW-6</u> 5/14/18	<u>MW-600</u> (b) 5/14/18	<u>MW-7</u> 6/19/05	<u>MW-7</u> 5/24/06	<u>MW-7</u> 5/27/09	<u>MW-7</u> 5/11/18	<u>MW-7D</u> 5/25/06	<u>MW-7D</u> 6/22/06	<u>MW-7D</u> 5/27/09	<u>MW-7D</u> 5/11/18
Metals (mg/l)															
Antimony	<0.020	<0.020	NA	NA	NA	NA		<0.020	NA	NA	NA	NA	NA	NA	NA
Arsenic	<0.050	<0.050	NA	NA	NA	NA		<0.050	NA	NA	NA	NA	NA	NA	NA
Cadmium	<0.005	<0.005	<0.005	<0.005	0.034	<0.005		0.008	0.009	<0.005	<0.005	0.062	0.069	0.030	0.020
Cobalt	<0.020	<0.010	NA	NA	NA	NA		0.091	NA	NA	NA	NA	NA	NA	NA
Copper	<0.010	<0.010	<0.010	<0.010	0.197	<0.010		0.065	0.054	0.010	0.010	0.136	0.139	0.067	0.042
Lead	<0.010	<0.010	<0.010	<0.010	0.094	<0.010		0.067	<0.010	<0.010	0.051	0.563	0.159	0.033	<0.010
Selenium	<0.020	<0.020	NA	NA	NA	NA		<0.020	NA	NA	NA	NA	NA	NA	NA
Silver	<0.010	<0.010	NA	NA	NA	NA		<0.010	NA	NA	NA	NA	NA	NA	NA
Thallium	<0.020	<0.020	NA	NA	NA	NA		<0.020	NA	NA	NA	NA	NA	NA	NA
Zinc	0.032	0.031	0.029	0.024	0.194	<0.020		0.154	0.157	0.025	<0.020	0.853	0.955	0.438	0.242
VOCs (mg/l)												NA	NA	NA	
Benzene	2.6	2.5	1.80	1.70	12	<0.25	<0.25	<0.001	<0.005	<0.005	<0.005				<0.005
Cyclohexane	NA	NA	0.150	0.150	NA	NA	NA	NA	<0.005	NA	NA				NA
Ethylbenzene	1.6	1.5	0.710	0.600	2.9	1.9	1.9	<0.001	<0.005	<0.005	<0.005				<0.005
Isopropylbenzene	NA	NA	0.030	0.032	NA	NA	NA	NA	<0.005	NA	NA				NA
Methylcyclohexane	NA	NA	0.079	0.077	NA	NA	NA	NA	<0.005	NA	NA				NA
Methyl tert butyl ether	NA	NA	NA	NA	0.024	<0.25	<0.25	NA	NA	<0.005	<0.005				<0.005
Toluene	4.8	4.6	2.40	2.00	13	4.3	4.2	<0.001	<0.005	<0.005	<0.005				<0.005
Xylenes	6.5	6.4	2.04	1.67	12	6.2	6.1	<0.001	<0.005	<0.005	<0.005				<0.005
PAHs (mg/l)												NA	NA	NA	
Naphthalene	0.280	0.320	0.130	0.140	0.88	0.46	0.65	<0.010	<0.010	<0.005	<0.005				<0.005
1-Methylnaphthalene	0.066	0.072	0.025	0.026	NA	NA	NA	<0.010	<0.010	NA	NA				NA
2-Methylnaphthalene	0.120	0.140	0.049	0.050	NA	NA	NA	<0.010	<0.010	NA	NA				NA
Other PAHs	<0.010	<0.010	<0.010	<0.010	NA	NA	NA	<0.010	<0.010	NA	NA				NA

Table 4
Groundwater Sampling Results (a)
Former National Smelting & Refining Site
Atlanta, Georgia

Date	<u>MW-7E</u> 7/21/06	<u>MW-7E</u> 5/27/09	<u>MW-7E</u> 5/11/18	<u>MW-8</u> 6/19/05	<u>MW-8</u> 5/24/06	<u>MW-8</u> 5/27/09	<u>MW-100 (b)</u> 5/27/09	<u>MW-8</u> 5/11/18	<u>MW-800 (b)</u> 5/11/18	<u>MW-9</u> 5/25/06	<u>MW-9</u> 5/27/09	<u>MW-9</u> 5/14/18	<u>MW-10</u> 5/24/06	<u>MW-11</u> 6/23/06
Metals (mg/l)														
Antimony	NA	NA	NA	<0.020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	NA	NA	NA	<0.050	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	<0.005	<0.005	<0.005	0.007	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA
Cobalt	NA	NA	NA	0.338	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	0.111	<0.010	<0.010	0.022	<0.010	0.099	0.097	<0.010	<0.010	0.014	<0.010	<0.010	<0.010	NA
Lead	0.0125	<0.010	<0.010	1.48	0.166	0.975	0.972	0.047	0.048	<0.010	<0.010	<0.010	<0.010	NA
Selenium	NA	NA	NA	<0.020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	<0.010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	NA	NA	NA	<0.020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	0.228	<0.020	<0.020	2.64	0.895	0.390	0.384	<0.020	<0.020	0.348	0.343	0.659	<0.020	<0.020
VOCs (mg/l)	NA	NA	NA	NA			NA	NA	NA		NA			NA
Benzene					<0.005	<0.005				<0.005		<0.005	<0.005	
Cyclohexane					<0.005	NA				<0.005		NA	<0.005	
Ethylbenzene					<0.005	<0.005				<0.005		0.01	<0.005	
Isopropylbenzene					<0.005	NA				<0.005		NA	<0.005	
Methylcyclohexane					<0.005	NA				<0.005		NA	<0.005	
Methyl tert butyl ether					NA	<0.005				NA		<0.005	NA	
Toluene					<0.005	<0.005				<0.005		0.009	<0.005	
Xylenes					<0.005	<0.005				<0.005		0.041	<0.005	
PAHs (mg/l)	NA	NA	NA	NA			NA	NA	NA		NA			NA
Naphthalene					<0.010	<0.005				<0.010		0.006	<0.010	
1-Methylnaphthalene					<0.010	NA				<0.010		NA	<0.010	
2-Methylnaphthalene					<0.010	NA				<0.010		NA	<0.010	
Other PAHs					<0.010	NA				<0.010		NA	<0.010	

Table 4
Groundwater Sampling Results (a)
Former National Smelting & Refining Site
Atlanta, Georgia

Date	<u>MW-12</u> 6/23/06	<u>MW-201</u> (b) 6/23/06	<u>MW-12</u> 5/12/18	<u>MW-13</u> 7/8/09	<u>MW-130</u> (b) 7/8/09	<u>MW-13</u> 5/14/18	<u>MW-13D</u> 8/12/09	<u>MW-13D</u> 5/14/18	<u>MW-13DD</u> 8/12/09	<u>MW-130DD</u> (b) 8/12/09	<u>MW-14</u> 7/7/09	<u>MW-14</u> 5/14/18	<u>MW-15</u> 7/8/09	<u>MW-15</u> 5/14/18
Metals (mg/l)														
Cadmium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.006	<0.005	<0.005
Copper	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Lead	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Zinc	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.051	0.098	<0.020	<0.020
VOCs (mg/l)	NA	NA	NA				NA		NA	NA		NA		NA
Benzene				<0.005	<0.005	<0.005		<0.005			<0.005		<0.005	
Ethylbenzene				<0.005	<0.005	<0.005		<0.005			<0.005		<0.005	
Methyl tert butyl ether				<0.005	<0.005	<0.005		<0.005			<0.005		<0.005	
Naphthalene				<0.005	<0.005	<0.005		<0.005			<0.005		<0.005	
Toluene				<0.005	<0.005	<0.005		<0.005			<0.005		<0.005	
Xylenes				<0.005	<0.005	<0.005		<0.005			<0.005		<0.005	

a/ NA = not analyzed; NR = not regulated. Shaded value exceeds the Type 1 RRS.

b/ Duplicate of preceding sample.

APPENDIX

A TAX PLAT

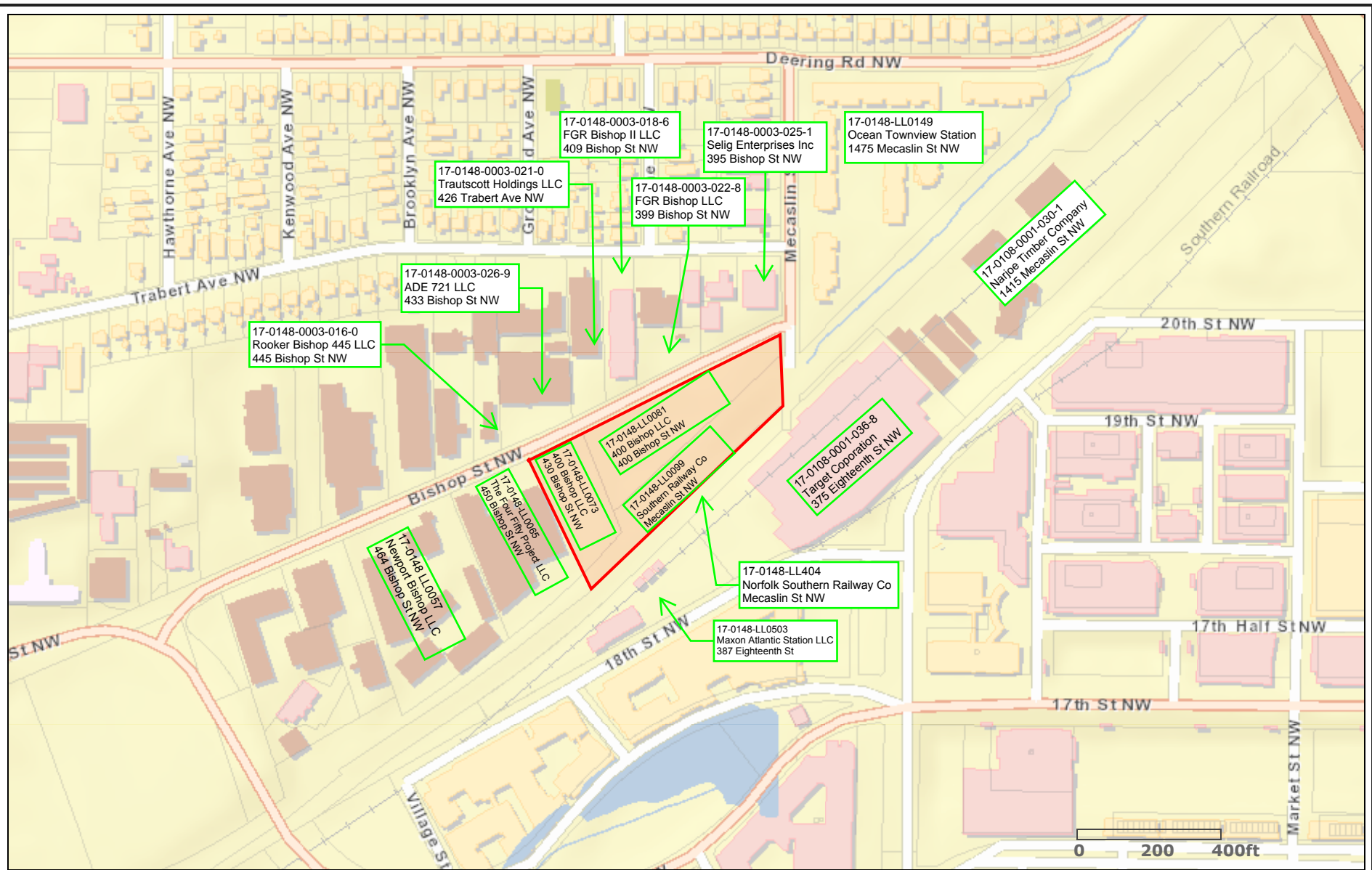


Figure A-1: Qualifying Properties & Abutting Properties
Fulton County, Georgia

Fulton County provides the data on this map for your personal use "as is". The data are not guaranteed to be accurate, correct, or complete. The feature locations depicted in these maps are approximate and are not necessarily accurate to surveying or engineering standards. Fulton County assumes no responsibility for losses resulting from the use these data, even if Fulton County is advised of the possibility of such losses.



APPENDIX

B

WARRANT DEEDS

After recording, return to:
Kyle J. Levstek, Esq.
Calloway Title and Escrow, LLC
4170 Ashford Dunwoody Road
5th Floor, Suite 525 2-35593
Atlanta, Georgia 30319-1442

STATE OF GEORGIA

COUNTY OF FULTON

LIMITED WARRANTY DEED

THIS INDENTURE, made as of the 18th day of January, 2018, between ATLANTA FORGE & FOUNDRY COMPANY, a Georgia corporation (hereinafter referred to as "GRANTOR"), and 400 BISHOP ST., LLC, a Georgia limited liability company, its successors and assigns (hereinafter referred to as "GRANTEE"), having an address at 403 W. Ponce de Leon, Suite 104, Decatur, Georgia 30030.

W I T N E S S E T H:

THAT GRANTOR, for and in consideration of the sum of Ten and No/100 Dollars (\$10.00) and other good and valuable consideration, in hand paid at and before the sealing and delivery of these presents, the receipt and sufficiency of which are hereby acknowledged, has granted, bargained, sold and conveyed, and by these presents does grant, bargain, sell and convey unto the said GRANTEE, that tract or parcel of land lying and being in Land Lot 148 of the 17th District of Fulton County, Georgia, and being more particularly described on Exhibit "A" attached hereto and by this reference incorporated herein (the "Land").

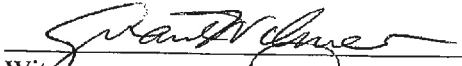
TO HAVE AND TO HOLD the Land, together with all and singular the rights, members and appurtenances thereof (collectively, the "Property"), to the same being, belonging, or in anywise appertaining, to the only proper use, benefit and behoof of the said GRANTEE forever in Fee Simple; subject to those easements, covenants, restrictions and other matters set forth on Exhibit "B" attached hereto and incorporated herein by this reference (hereinafter referred to as "Permitted Exceptions").

AND GRANTOR will forever warrant and forever defend the right and title to the Property unto GRANTEE, its heirs, successors, legal representatives and assigns, against the lawful claims of all persons claiming by, through or under GRANTOR (other than a claim arising out of the Permitted Exceptions), but not further or otherwise.

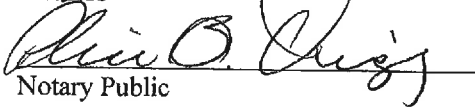
The conveyance hereunder is also subject to that certain Environmental Release and Indemnification Agreement, of even date herewith to be recorded on or about the date hereof in the Records of Fulton County, Georgia, between Grantor and Grantee, the terms and provisions of which are incorporated herein and made a part hereof by this reference.

IN WITNESS WHEREOF, GRANTOR has signed and sealed this Limited Warranty Deed, to be effective as of the day and year first above written.

Signed, sealed and delivered
in the presence of:



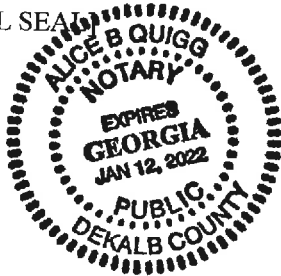
Witness



Notary Public

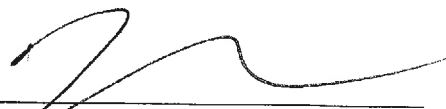
My Commission Expires: _____

[AFFIX NOTARIAL SEAL]



GRANTOR:

ATLANTA FORGE & FOUNDRY COMPANY,
a Georgia corporation

By: 

Name: Harry F. Jenkins
Title: President

(CORPORATE SEAL)



EXHIBIT A**to Limited Warranty Deed****THE LAND**

ALL THAT TRACT or parcel of land lying and being in Land Lot 148 of the 17th District of Fulton County, Georgia and being more particularly described as follows:

BEGINNING at the corner formed by the intersection of the south side of Bishop Street (having a 50-foot right of way) with the west side of Mecaslin Street (formerly East Street); running thence South 02 degrees 30 minutes 51 seconds East, along the west side of Mecaslin Street, a distance 50.7 feet to a point (said point being 100 feet northwest of the common center line of the main tracks of the Atlanta Belt Line of the Southern Railway Company); running thence South 45 degrees 00 minutes 56 seconds West, parallel to and 100 feet northwest of said common center line, 642.00 feet to a point; running thence South 27 degrees 36 minutes 41 seconds East, a distance 52.39 feet to a point; running thence South 45 degrees 00 minutes 56 seconds West a distance of 161.50 feet to a point; running thence North 27 degrees 45 minutes 04 seconds West a distance of 337.79 feet to a point on the south side of Bishop Street; running thence North 63 degrees 45 minutes 17 seconds East a distance of 155.00 feet along the south side of Bishop Street; thence continuing along the south side of Bishop Street, North 62 degrees 19 minutes 19 seconds East a distance of 208.59 feet to a point; thence continuing along the south side of Bishop Street, North 61 degrees 52 minutes 11 seconds East a distance of 340.81 feet to a point; thence continuing along the south side of Bishop Street, North 61 degrees 50 minutes 52 seconds East a distance of 84.84 feet to a point located on the west side of Mecaslin Street and the point of beginning; containing 3.074 acres as shown on plat of survey entitled "Survey for NL Industries, Inc." made by Chester M. Smith, Jr., Ga. R.L.S. No. 1445, dated November 8, 1979, revised June 15, 1981, and being the same property as conveyed to Grantor by that certain Trustee's Deed, dated October 11, 1989, from Steven L. Zimmerman, Trustee in Bankruptcy of the Estate of National Smelting and Refining Co., Inc., recorded at Deed Book 12878, Page 66, Fulton County, Georgia Records.

Tax ID Nos. 17-0148-LL-008-1, 17-0148-LL-007-3

EXHIBIT "B"
to Limited Warranty Deed

PERMITTED EXCEPTIONS

1. Ad valorem taxes and assessments which are not yet due and payable.
2. Matters of record.
3. Any liens or claims with respect to environmental matters.
4. Matters which would be disclosed by a current and accurate survey of the Property.

After recording, return to:
Kyle J. Levstek, Esq.
Calloway Title and Escrow, LLC
4170 Ashford Dunwoody Road
5th Floor, Suite 525 2-35593
Atlanta, Georgia 30319-1442

STATE OF GEORGIA

COUNTY OF FULTON

QUITCLAIM DEED

THIS INDENTURE, made as of the 18th day of January, 2018, between ATLANTA FORGE & FOUNDRY COMPANY, a Georgia corporation (hereinafter referred to as "GRANTOR"), and 400 BISHOP ST., LLC, a Georgia limited liability company, its successors and assigns (hereinafter referred to as "GRANTEE"), having an address at 403 W. Ponce de Leon, Suite 104, Decatur, Georgia 30030.

WITNESSETH:

GRANTOR, for and in consideration of the sum of Ten and No/100ths Dollars (\$10.00) and other valuable consideration given in hand paid at and before the sealing and delivery of these presents, the receipt whereof and sufficiency of which are hereby acknowledged, does hereby bargain, sell, remise, release and forever quitclaim unto Grantee all Grantor's right, title and interest in and to that tract or parcel of land lying and being in Fulton County, Georgia, and being more particularly described on Exhibit "A" attached hereto and by this reference made a part hereof, together with all easements, rights, members and appurtenances in any manner appertaining or belonging thereto (the "Property"), subject to those easements, covenants, restrictions and other matters set forth on Exhibit "B" attached hereto and incorporated herein by this reference (hereinafter referred to as "Permitted Exceptions").

TO HAVE AND TO HOLD said property unto Grantee in fee simple absolute forever so that neither Grantor nor any other person or persons claiming under Grantor shall at any time claim or demand any right, title or interest in said property or its appurtenances.

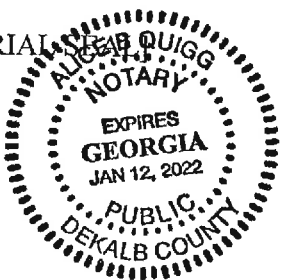
The conveyance hereunder is also subject to that certain Environmental Release and Indemnification Agreement, of even date herewith to be recorded on or about the date hereof in the Records of Fulton County, Georgia, between Grantor and Grantee, the terms and provisions of which are incorporated herein and made a part hereof by this reference.

IN WITNESS WHEREOF, Grantor has caused this instrument to be signed, sealed and delivered on its behalf by its duly authorized officers as of the day and year first above written.

Signed, sealed and delivered
in the presence of:

Grantor
Witness
Oliver B. Quigg
Notary Public

My Commission Expires: _____

[AFFIX NOTARIAL SEAL]


GRANTOR:

**ATLANTA FORGE & FOUNDRY
COMPANY**, a Georgia corporation

By: *[Signature]*
Name: Harry F. Jenkins
Title: President

(CORPORATE SEAL)



EXHIBIT "A"**LEGAL DESCRIPTION**

THE REAL PROPERTY in Land Lot 148, 17th District, City of Atlanta, Fulton County, Georgia, shown and delineated on ALTA/NSPS Title Survey entitled "ALTA/NSPS Title Survey" certified to 400 Bishop St., LLC, Atlanta Forge & Foundry Company, Sergey Khotimskiy and Chicago Title Insurance Company, prepared by Diversified Technical Group, L.L.C., bearing the seal and certification of J. Scott Smith, Georgia Registered Land Surveyor No. 3014, dated November 20, 2017, being designated as Project No. 17243, and being more particularly described as follows:

BEGINNING at a ½-inch rebar set at the intersection of the southerly right-of-way line of Bishop Street (50-foot right-of-way) with the westerly right-of-way line of Mecaslin Street (apparent 50-foot right-of-way);
 thence running along the westerly right-of-way line of Mecaslin Street South 01 degree 03 minutes 17 seconds East 56.30 feet to a ½-inch rebar set;
 thence leaving the westerly right-of-way line of Mecaslin Street and running South 46 degrees 28 minutes 30 seconds West 642.00 feet to a ½-inch rebar set;
 thence running South 26 degrees 09 minutes 07 seconds East 52.39 feet to a point on the northerly right-of-way line of the Southern Railway Company;
 thence running South 48 degrees 20 minutes 41 seconds West 149.59 feet to a ¾-inch rod found;
 thence running North 27 degrees 28 minutes 57 seconds West 338.78 feet to a ½-inch rebar set on the southerly right-of-way line of Bishop Street;
 thence running along the southerly right-of-way line of Bishop Street North 64 degrees 35 minutes 11 seconds East 154.38 feet to a point;
 thence continuing along the southerly right-of-way line of Bishop Street North 64 degrees 11 minutes 21 seconds East 208.59 feet to a point;
 thence continuing along the southerly right-of-way line of Bishop Street North 63 degrees 52 minutes 35 seconds East 340.81 feet to point;
 thence continuing along the southerly right-of-way line of Bishop Street North 64 degrees 00 minutes 44 seconds East 84.84 feet to a ½-inch rebar and the TRUE POINT OF BEGINNING.

Tax ID Nos. 17-0148-LL-008-1, 17-0148-LL-007-3

EXHIBIT "B"

PERMITTED EXCEPTIONS

1. Ad valorem taxes and assessments which are not yet due and payable.
2. Matters of record.
3. Any liens or claims with respect to environmental matters.
4. Matters which would be disclosed by a current and accurate survey of the Property.

00098732

Fulton County, Georgia
Real Estate
Paid 7.52
Date 10-20-89
Clerk
Deputy Clerk

TRUSTEE'S DEED

THIS INDENTURE, made this 11 day of October, 1989, between STEVEN L. ZIMMERMAN, TRUSTEE IN BANKRUPTCY OF THE ESTATE OF NATIONAL SMELTING AND REFINING CO., INC., hereinafter called "Grantor" and ATLANTA FORGE & FOUNDRY COMPANY, a Georgia corporation, hereinafter called "Grantee";

WITNESSETH, that the said Grantor, pursuant to Order dated June 2, 1989 and entered June 7, 1989, by Judge Roland J. Brumbaugh, United States Bankruptcy Court for the District of Colorado, Division;

NOW, THEREFORE, Grantor having complied with the notice requirements for sale as set forth in the Order, and hereby certifies as to same;

NOW, THEREFORE, the said Grantor, in consideration of the premises, the sum of Ten and No/100 Dollars (\$10.00) in hand paid at and before the sealing and delivering of these presents, the receipt of which is hereby acknowledged, has granted, bargained, sold and conveyed, and hereby does grant, bargain, sell and convey unto the said Grantees, all of his right, title and interest to the following described tract of land:

ALL THAT TRACT or parcel of land lying and being in Land Lot 148 of the 17th District of Fulton County, Georgia, and being more particularly described in Exhibit "A" attached hereto and incorporated herein by this reference.

TO HAVE AND TO HOLD the said described premises to Grantees, so that neither Grantor nor any person or persons claiming under under Grantor shall at any time, by any means or ways, have, claim or demand any right or title to said premises or appurtenances, or any rights thereof.

IN WITNESS WHEREOF, the said Steven L. Zimmerman, trustee in bankruptcy, has hereunto set his hand and seal the day and year first above written.

Michael G. Willard
Witness

By: Steven L. Zimmerman (SEAL)
Steven L. Zimmerman, as and only as
Trustee in Bankruptcy for the Estate
of National Smelting and Refining Co., Inc.

OK
HLSMC

STATE OF COLORADO

COUNTY OF Denver

October 11, 1989

Then personally appeared the above-named Steven L. Zimmerman, trustee in bankruptcy aforesaid and acknowledged the foregoing to be his free act and deed.

Signed, sealed and delivered
before me this 11 day of
October, 1989.

Notary Public
My commission expires: 11/15/92



BOOK 12878 PAGE 066

62731

GEORGIA Fulton County Clerk's Office Superior Court
Filed & Recorded Oct 30, 1989 at 11:33

Jeanita Hicks CLERK

11

03 12878
P. 66

EXHIBIT "A"

ALL THAT TRACT or parcel of land lying and being in Land Lot 148 of the 17th District of Fulton County, Georgia, and being more particularly described as follows:

BEGINNING at the corner formed by the intersection of the south side of Bishop Street (having a 30-foot right of way) with the west side of Macaulia Street (formerly East Street); running thence south 02 degrees 30 minutes 31 seconds east, along the west side of Macaulia Street, a distance of 50.7 feet to a point (said point being 100 feet northwest of the common center line of the main tracks of the Atlanta Belt Line of the Southern Railway Company); running thence south 43 degrees 00 minutes 36 seconds west, parallel to and 100 feet northwest of said common center line, 142 feet to a point; running thence south 27 degrees 36 minutes 41 seconds east, a distance of 32.39 feet to a point; running thence south 45 degrees 00 minutes 36 seconds west a distance of 161.50 feet to a point; running thence north 27 degrees 45 minutes 04 seconds west a distance of 337.79 feet to a point on the south side of Bishop Street; running thence north 63 degrees 45 minutes 17 seconds east a distance of 135.00 feet along the south side of Bishop Street; thence continuing along the south side of Bishop Street, north 62 degrees, 19 minutes 19 seconds east a distance of 204.59 feet to a point; thence continuing along the south side of Bishop Street north 61 degrees 32 minutes 11 seconds east a distance of 340.81 feet to a point; thence continuing along the south side of Bishop Street north 61 degrees 30 minutes 32 seconds east a distance of 24.84 feet to a point located on the west side on Macaulia Street and the point of beginning; containing 3.076 acres as shown on plat of survey entitled "Survey for Mt. Industries, Inc." made by Chester H. Smith, Jr., C.E., A.L.S., No. 1443, dated November 8, 1979, reviewed June 13, 1981.

APPENDIX

C BORING LOGS AND WELL CONSTRUCTION DETAILS

Boring Log: MW-1
Project: NS&R/Atlanta, GA

Project No.: 127541

Location: 180'E, 50'N of SW/c prop

Geologist: JFM

Completion Date: January 7, 2003

Surface Elevation (ft. MSL): 906.21

Total Depth (ft. bgs): 20

TOC Elevation (ft. MSL): 906.04

Borehole Diameter (in.) 8


ENVIRONMENTAL STRATEGIES CONSULTING LLC

Sample Data					SUBSURFACE PROFILE		Well Construction
Depth	Elevation	Blow Count	% Recovery	PID (ppm)	Symbol	Description	
0	0					Ground Surface	
1	-1					Concrete	
2		3-3- 4-7	5			Fill Brown, fine-grained SAND	
3	-3						
4			5			Reddish-brown, micaceous, SAND and Silty CLAY. Moist.	
5	-5						
6		12-5- 5-4	15				
7							
8		3-3- 3-3	80			Silty CLAY Reddish brown, mottled, micaceous, moist, soft	
9							
10		3-4- 9-7	0				
11	-11						
12		3-3- 7-7	90			Clayey SILT Reddish-brown to brown. Micaceous, soft. Moist	
13	-13						
14		2-4- 7-11	90			Clayey SILT Grades from brown to dark gray. Micaceous, laminated. Wet. Slight petroleum-like odor.	
15	-15						
16		4-7- 11-13	100			SILT Gray, micaceous. Laminated, with some medium SAND	
17	-17						
18		4-8- 14-16	90			SAPROLITE Brown and dark grey. Laminated, micaceous, silty with thin medium-grained SAND lenses. Wet.	
19							
20	-20	4-7- 15-15	90				
21						Boring Terminated	
22							
23							
24							
25							

Subcontractor: Richard Simmons Drilling

Method: 4.25" id HSA

Denny Harker

Boring Log: MW-2

Project: NS&R/Atlanta, GA

Project No.: 127541

Location: 150°W, 30°S SE/c prop

Geologist: JFM

Completion Date: January 10, 2003

Surface Elevation (ft. MSL): 906.28

Total Depth (ft. bgs): 25

TOC Elevation (ft. MSL): 906.14

Borehole Diameter (in.) 8



ENVIRONMENTAL STRATEGIES CONSULTING LLC

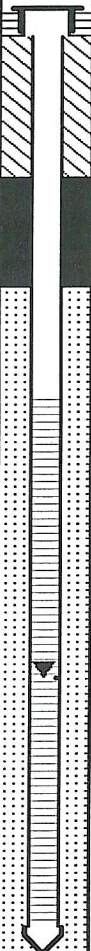







Sample Data					SUBSURFACE PROFILE		Well Construction
Depth	Elevation	Blow Count	% Recovery	PID (ppm)	Symbol	Description	
0	0					Ground Surface	
1	-1					Concrete	
2	-2		50			FILL	
3						Black, gravelly SAND, poorly sorted. Damp	
4			50			Sandy CLAY (FILL)	
5	-5					Reddish-brown, fine-grained SAND w/tan CLAY. Stiff. Damp.	
6			80			Sandy CLAY (FILL)	
7	-7					Grayish-brown and black. Micaceous, some organics. Stiff. Moist	
8			90			Clayey SILT	
9						Medium brown, some gravel and CLAY. Micaceous. Wet	
10			90			Black and brown, wet at 10.5 feet bgs	
11	-11						
12			50				
13							
14			80			Clayey SILT	
15						Red-brown, mottled, some micaceous fine SAND. Stiff. Damp	
16	-16.5		80				
17	-17.5					Grey mottling from 16.5 to 17.5 ft bgs	
18			95			Clayey SILT	
19	-19.5					Brownish-tan and white, mottled. Micaceous. Plastic, stiff. Moist	
20			90			Clayey SILT	
21						Brown with gold mica. Moist to wet	
22	-22		90				
23							
24			80			Clayey SILT	
25	-25					Brown with black and white laminations. Loose. Wet	

Subcontractor: Richard Simmons Drilling

Method: 4.25" id HSA

Denny Harker

Boring Log: MW-3**Project:** NS&R/Atlanta, GA**Project No.:** 127541**Location:** N prop line, Main Site**Geologist:** GMB**Completion Date:** 2/19 and 20/04**Surface Elevation (ft. MSL):** 911.98**Total Depth (ft. bgs):** 20**TOC Elevation (ft. MSL):** 911.70**Borehole Diameter (in.)** 8

Sample Data					SUBSURFACE PROFILE		Well Construction
Depth	Elevation	Blow Count	% Recovery	PID (ppm)	Symbol	Description	
0	0					Ground Surface	
-0.6	-0.6					FILL Red-brown CLAY. Moist.	
1						GCL	
2						Concrete	
3		50		0		Silty CLAY Yellow-brown to orange-brown. Micaceous. Dense. Moist. No odor or stains.	
4	-4						
5							
6							
7							
8		63		0		SAPROLITE Red-brown. Micaceous silty CLAY.	
9							
10							
11							
12	-12						
13		83		0		Dark gray silty v. fine SAND Light gray and white silty v. fine SAND Gray and brown silty v. fine SAND	
14							
15	-15					Wet at approx. 13 feet bgs	
16							
17	-17					Red-brown silty CLAY. Stiff. Wet.	
18		90		0		GNEISSIC. Thin folded beds of gray, white, and brown silty v. fine SAND. Dense. Damp.	
19							
20	-20						
21						Boring Terminated	
22							
23							
24							
25							

Subcontractor: Geo Lab

Method: Geoprobe/4.25" id HSA

Joe Grantham/Mike Short

Boring Log: MW-4

Completion Date: 6/15/05

Project: NS&R/Atlanta, GA

Surface Elevation (ft. MSL): 909.92

Project No.: 127541

Total Depth (ft. bgs): 18

Location: 100' E of MW-5

TOC Elevation (ft. MSL): 909.70

ENVIRONMENTAL STRATEGIES CONSULTING LLC

Geologist: GMB

Borehole Diameter (in.) 8



Sample Data				SUBSURFACE PROFILE		Well Construction
Depth	Sample Interval	% Recovery	PID (ppm)	Symbol	Description	
0					Ground Surface	
					Concrete	
1						
2						
3	1	50			<i>SAPROLITE (migmatitic gneiss)</i>	
4					Golden-brown. Micaceous silty very fine to fine SAND.	
5						
6						
7						
8	2	65				
9						
10						
11	3	100				
12						
13					Yellow-brown silty fine SAND w/mica. Laminated. Damp. Wet at 13 ft bgs.	
14						
15	4	100				
16						
17						
18						
19						
20						

Subcontractor: Geo Lab

Method: Geoprobe/4.25" id HSA

Driller/Operator: Joe Grantham

Boring Log: MW-5
Completion Date: 6/15/05

Project: NS&R/Atlanta, GA

Surface Elevation (ft. MSL): 915.80

Project No.: 127541

Total Depth (ft. bgs): 22

Location: NW/c Main Site

TOC Elevation (ft. MSL): 915.69

ENVIRONMENTAL STRATEGIES CONSULTING LLC
Geologist: GMB

Borehole Diameter (in.) 8


Sample Data				SUBSURFACE PROFILE		Well Construction
Depth	Sample Interval	% Recovery	PID (ppm)	Symbol	Description	
0					Ground Surface	
					Concrete	
1					FILL	
					0.3-5 ft bgs: Red-brown silty CLAY w/granules and mica. Moist.	
					5-12 ft bgs: Pink-brown clayey fine SAND. Moist.	
					12-13 ft bgs: Brown mottled w/gray CLAY. Damp.	
					13-19 ft bgs: Dark brown to brown becoming gray CLAY. Wet.	
2						
3	1	50				
4						
5						
6						
7						
8	2	85				
9						
10						
11						
12	3	100				
13						
14						
15						
16						
17	4	100				
18						
19						
20						

Subcontractor: Geo Lab

Method: Geoprobe/4.25" id HSA

Driller/Operator: Joe Grantham

Boring Log: MW-5

Completion Date: 6/15/05

Project: NS&R/Atlanta, GA

Surface Elevation (ft. MSL): 915.80

Project No.: 127541

Total Depth (ft. bgs): 22

Location: NW/c Main Site

TOC Elevation (ft. MSL): 915.69

ENVIRONMENTAL STRATEGIES CONSULTING LLC

Geologist: GMB

Borehole Diameter (in.) 8



Sample Data				SUBSURFACE PROFILE		Well Construction
Depth	Sample Interval	% Recovery	PID (ppm)	Symbol	Description	
21					SAPROLITE (migmatitic gneiss) Golden-brown. Micaceous silty very fine to fine SAND. Interbedded with gray and brown (speckled appearance) silty fine SAND. Laminated. Wet.	
22					Boring Terminated	
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						
34						
35						
36						
37						
38						
39						
40						
Subcontractor: Geo Lab				Method: Geoprobe/4.25" id HSA		
Driller/Operator: Joe Grantham						

Boring Log: MW-6

Completion Date: 6/15/05

Project: NS&R/Atlanta, GA

Surface Elevation (ft. MSL): 908.76

Project No.: 127541

Total Depth (ft. bgs): 18

Location: 15' S of fmr UST

TOC Elevation (ft. MSL): 908.52

ENVIRONMENTAL STRATEGIES CONSULTING LLC

Geologist: GMB

Borehole Diameter (in.) 8



Sample Data				SUBSURFACE PROFILE		Well Construction
Depth	Sample Interval	% Recovery	PID (ppm)	Symbol	Description	
0					Ground Surface	
1	1	80			FILL 0-1.5 ft bgs: Gravel and sand. 1.5-3 ft bgs: Gray or red-brown fine SAND and gravel 3-3.5 ft bgs: CONCRETE 3.5-5 ft bgs: Black SAND, pebbles, brick fragments, cinders, and lead slag. Dry.	
2						
3						
4						
5	2	85				
6						
7						
8						
9	3	100			SAPROLITE 5-8.5 ft bgs: Red-brown silty fine SAND w/mica. 8.5-15 ft bgs: Gray silty fine SAND w/mica. Wet at approx. 9.5 ft bgs. Strong petroleum odor, greasy feel.	
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

Subcontractor: Geo Lab

Method: Geoprobe/4.25" id HSA

Driller/Operator: Joe Grantham

Boring Log: MW-7

Project: NS&R/Atlanta, GA

Project No.: 127541

Location: 10' SW of MW-1

Geologist: GMB

Completion Date: 6/16/05

Surface Elevation (ft. MSL): 906.04

Total Depth (ft. bgs): 33

TOC Elevation (ft. MSL): 905.62

Borehole Diameter (in.) 8

ENVIRONMENTAL STRATEGIES CONSULTING LLC



Sample Data					SUBSURFACE PROFILE		Well Construction	
Depth	Elevation	Blow Count	% Recovery	PID (ppm)	Symbol	Description		
0	0					Ground Surface		
0						Concrete		
1						FILL Orange-brown, red-brown, and brown. Silty fine SAND w/pebbles. Micaceous. Dry.		
2			60					
3								
4								
5	-5							
6	-6					Black silty CLAY. Micaceous. Soft.		
7						SAPROLITE Orange-brown and gray. Laminated, micaceous, silty CLAY with thin lenses of fine- to medium-grained SAND. Wet at 9 ft bgs.		
8			100					
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								

Subcontractor: Geo Lab

Method: Geoprobe/4.25" id HSA

Joe Grantham

Boring Log: MW-7

Project: NS&R/Atlanta, GA

Project No.: 127541

Location: 10' SW of MW-1

Geologist: GMB

Completion Date: 6/16/05

Surface Elevation (ft. MSL): 906.04

Total Depth (ft. bgs): 33

TOC Elevation (ft. MSL): 905.62

Borehole Diameter (in.) 8

ENVIRONMENTAL STRATEGIES CONSULTING LLC



Sample Data					SUBSURFACE PROFILE		Well Construction
Depth	Elevation	Blow Count	% Recovery	PID (ppm)	Symbol	Description	
26	-26						
27							
28	-28						
29							
30							
31							
32							
33	-33						
33.5	-33.5						
34							
35							
36							
37							
38							
39							
40							
41							
42							
43							
44							
45							
46							
47							
48							
49							
50							

CLAY
Gray. Dense.

SAPROLITE
Dark grey. Laminated, micaceous, silty CLAY with thin medium-grained SAND lenses. Wet.

BEDROCK
Refusal on rock at 33.5 ft bgs.

Boring Terminated

Subcontractor: Geo Lab

Joe Grantham

Method: Geoprobe/4.25" id HSA

Boring Log: MW-7D

Project: NS&R/Atlanta, GA

Project No.: 127541

Location: 8' W of MW-7

Geologist: GMB

Completion Date: 5/25/2006

Surface Elevation (ft. MSL): 906.24

Total Depth (ft. bgs): 65

TOC Elevation (ft. MSL): 905.99

Borehole Diameter (in.) 12/6



ENVIRONMENTAL STRATEGIES CONSULTING LLC

Sample Data					SUBSURFACE PROFILE		Well Construction
Depth	Elevation	Blow Count	% Recovery	PID (ppm)	Symbol	Description	
0	0					Ground Surface	
						Concrete	
5	-5					FILL Orange-brown, red-brown, and brown. Silty fine SAND w/pebbles. Micaceous. Lead slag at approx. 5 feet bgs. Dry.	
10						SAPROLITE Orange-brown and gray. Laminated, micaceous, silty CLAY with thin lenses of fine- to medium-grained SAND.	
15							
20							
25						Mica SCHIST Drilled ahead with 6" air hammer.	
30							
35							
40							
45							
50							
55							
60							
65	-65						
70						Boring Terminated	

Subcontractor: Geo Lab

Joe Grantham

Method: 6.25" id HSA/6" air hammer

Boring Log: MW-7E**Project:** National Smelting and Refining**Surface Elevation (feet AMSL*):****Project No.:** 127526-4**TOC Elevation (feet AMSL*):****Location:** Atlanta, Georgia**Total Depth (feet):** 90**Completion Date:** July 20, 2006**Borehole Diameter (inches):** 2"

Sample Data					Subsurface Profile		Well Details
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description	
						Ground Surface	
						Concrete	
20						Sandy clay, dark brown, with slag, moist, poorly sorted, sand is medium-grained - fine- and medium-grained with no slag from 6 to 11 feet bgs - saturated at approximately 8.5 feet bgs	
						Clayey sand, dark brown, saturated, sand is medium-grained, poorly sorted, strong odor - sand content increasing with depth - refusal at 30 feet bgs	
40						Bedrock, quartz and mica - weathered area at 71 to 72 feet bgs - saturated at approximately 80 feet bgs	
60							
80							
100						Bottom of Boring at 90 feet Installed double cased, flush mounted monitoring well using Sch40 4" PVC outer casing set at 65 feet bgs, 2" PVC inner casing, and 0.010" slotted Sch40 PVC screen	

Geologist(s): Catharine London**Subcontractor:** Piedmont Environmental Drilling, Inc.**Driller/Operator:** Donnie Staton**Method:** Hollow Stem Auger and Air Rotary

*AMSL = Above mean sea level

Boring Log: MW-8

Completion Date: 6/16/05

Project: NS&R/Atlanta, GA

Surface Elevation (ft. MSL): 903.19

Project No.: 127541

Total Depth (ft. bgs): 18

Location: SE/c property

TOC Elevation (ft. MSL): 905.75

ENVIRONMENTAL STRATEGIES CONSULTING LLC

Geologist: GMB

Borehole Diameter (in.) 8



Sample Data				SUBSURFACE PROFILE		Well Construction
Depth	Sample Interval	% Recovery	PID (ppm)	Symbol	Description	
0					Ground Surface	
1						
2						
3	1	100				
4						
5						
6						
7	2	100				
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

FILL
0-0.5 ft bgs: Red-brown silty CLAY
0.5-1 ft bgs: Brown silty SAND
1-3 ft bgs: Black cinders, sand, and plastic fragments (possible battery cases)
3-5 ft bgs: Gray-brown and black sandy CLAY w/mica.
5-5.5 ft bgs: Brown silty SAND.
5.5-7 ft bgs: Yellow-brown silty CLAY. Dense.
7-8.5 ft bgs: Black and brown silty very fine SAND w/mica.
8.5-9 ft bgs: Brown silty CLAY
9-11 ft bgs: Yellow-brown silty fine SAND w/mica and brick fragments.

Wet at 7.5 ft bgs. Creosote odor.

SAPROLITE
Red-brown and gray silty fine SAND w/mica.

Boring Terminated

Subcontractor: Geo Lab

Method: Geoprobe/4.25" id HSA

Driller/Operator: Joe Grantham

Boring Log: MW-9

Project: NS&R/Atlanta, GA

Project No.: 127541

Location: W of GP-8

Geologist: GMB

Completion Date: 5/23/2006

Surface Elevation (ft. MSL): 906.14

Total Depth (ft. bgs): 19

TOC Elevation (ft. MSL): 905.82

Borehole Diameter (in.) 8



ENVIRONMENTAL STRATEGIES CONSULTING LLC

Sample Data					SUBSURFACE PROFILE		Well Construction
Depth	Elevation	Blow Count	% Recovery	PID (ppm)	Symbol	Description	
0	0					Ground Surface	
0						Concrete	
1							
2			30			FILL	
3						Orange-brown, red-brown, brown and black. Silty fine SAND w/pebbles. Micaceous. Dry.	
4						Layers of CONCRETE at 2.5 ft and 4 ft bgs.	
5							
6	-6						
7			50			CLAY	
8						Dark brown becoming brown. Dense. Damp.	
9	-9						
10						Silty CLAY	
11			100			Brown. Micaceous.	
12	-12.5						
13							
14							
15						SAPROLITE	
16						Brown and gray. Laminated, micaceous. Silty CLAY with thin lenses of fine- to medium-grained SAND.	
17						No odor.	
18							
19	-19					Boring Terminated	
20							
21							
22							
23							
24							
25							

Subcontractor: Geo Lab

Joe Grantham

Method: Geoprobe/4.25" id HSA

Boring Log: MW-10

Project: NS&R/Atlanta, GA

Project No.: 127541

Location: 35' E of Mecaslin culvert

Geologist: GMB

Completion Date: 5/23/2006

Surface Elevation (ft. MSL): 898.42

Total Depth (ft. bgs): 16

TOC Elevation (ft. MSL): 901.74

Borehole Diameter (in.) 8



ENVIRONMENTAL STRATEGIES CONSULTING LLC

Sample Data					SUBSURFACE PROFILE	
Depth	Elevation	Blow Count	% Recovery	PID (ppm)	Symbol	Description
0	0					Ground Surface
1	-1.5					Gravel
2			50	0		Silty CLAY Brown, red-brown, dark brown, and gray. Micaceous.
3						
4						
5						
6	-6					SAPROLITE Silver, tan, and gold, becoming gray. Silty v. fine SAND and clay, with mica. Laminated.
7			40	0		
8						
9						
10						Auger refusal at 16 ft bgs.
11			100			
12						
13						
14						Boring Terminated
15						
16	-16					
17						
18						
19						
20						
21						
22						
23						
24						
25						

Well Construction

Subcontractor: Geo Lab

Joe Grantham

Method: Geoprobe/4.25" id HSA

Boring Log: MW-11

Project: NS&R/Atlanta, GA

Project No.: 127562

Location: N. Pkg Area

Geologist: GMB

Completion Date: 6/22/2006

Surface Elevation (ft. MSL): 916.94

Total Depth (ft. bgs): 23

TOC Elevation (ft. MSL): 916.69

Borehole Diameter (in.) 8



ENVIRONMENTAL STRATEGIES CONSULTING LLC

Sample Data					SUBSURFACE PROFILE		Well Construction
Depth	Elevation	Blow Count	% Recovery	PID (ppm)	Symbol	Description	
0	0					Ground Surface	
0					Gravel		
1							
2							
3			95			FILL	
4						Red-brown clayey fine SAND, micaceous. Dry.	
5	-5						
6							
7							
8			100				
9							
10							
11							
12							
13			100				
14						SAPROLITE	
15						Brown and gold. Laminated, micaceous. Silty clayey SAND, with thin lenses of fine- to medium-grained SAND.	
16						No odor.	
17							
18			100				
19							
20							
21							
22							
23	-23					Boring Terminated	
24							
25							

Subcontractor: Geo Lab

Robert Sullivan

Method: Geoprobe/4.25" id HSA

Boring Log: MW-12

Project: NS&R/Atlanta, GA
 Project No.: 127562
 Location: 450 Bishop Street
 Geologist: GMB

Completion Date: 6/22/2006
 Surface Elevation (ft. MSL): 909.37
 Total Depth (ft. bgs): 19
 TOC Elevation (ft. MSL): 908.95
 Borehole Diameter (in.) 8



ENVIRONMENTAL STRATEGIES CONSULTING LLC

Sample Data					SUBSURFACE PROFILE		Well Construction
Depth	Elevation	Blow Count	% Recovery	PID (ppm)	Symbol	Description	
0	0					Ground Surface	
0						Concrete	
1							
2			95			FILL	
3						Brown, orange-brown, red-brown, dark brown and yellow-brown. Silty clayey fine SAND. Micaceous. Occasional coal fragments. Dry.	
4							
5							
6	-6						
7			100			SAPROLITE	
8						Red-brown, with black or white streaks. Laminated, micaceous. Silty fine SAND, some CLAY.	
9						Possibly wet at 9 ft bgs.	
10						3" Black and white coarse SAND and Gravel at approx. 14 ft bgs.	
11						Becomes Silty CLAY at approx. 15 ft bgs.	
12			100			No odor.	
13							
14							
15							
16							
17							
18							
19	-19					Boring Terminated	
20							
21							
22							
23							
24							
25							

Subcontractor: Geo Lab
 Robert Sullivan

Method: Geoprobe/4.25" id HSA

Boring Log: MW-13**Project:** NL-Atlanta**Project No.:** 127562**Location:** 430 Bishop St., Atlanta, GA**Completion Date:** June 13, 2009**Surface Elevation (feet AMSL*):** 900.96**TOC Elevation (feet AMSL*):** 904.12**Total Depth (feet):** 25**Borehole Diameter (inches):** 2

*AMSL = Above mean sea level



Sample Data					Subsurface Profile		Well Details
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description	
						Ground Surface	<p>The well diagram on the right shows a vertical borehole. It includes a casing at the top, a screen section between approximately 13 and 15 feet depth, and a water level indicated by a horizontal line with an arrow pointing to the water surface. The borehole ends at 25 feet.</p>
				100		Poorly-Graded Sand with Silt and Gravel (SP-SM) Brown, fine-grained silty sand with gravel and rock fragments. Dry.	
						Brick fragments and cinders (FILL).	
5				90		Poorly-Graded Sand with Gravel (SP) Black, coarse-grained sand with cinders and coal (FILL). Dry.	
						SAPROLITE Orange-brown, very fine-grained silty sand with some clay and mica throughout. Moist to wet.	
10				80		Greenish-black with mottled brown, very fine-grained silty sand with biotite. White saprolitic migmatite (quartz-rich) at 9.5 feet bgs.	
						Light-brown with mottled black and orange-brown, very fine-grained silty sand with muscovite and biotite mica throughout. Wet at 13 feet bgs.	
15				100			<p>The well diagram on the right shows a vertical borehole. It includes a casing at the top, a screen section between approximately 13 and 15 feet depth, and a water level indicated by a horizontal line with an arrow pointing to the water surface. The borehole ends at 25 feet.</p>
20						Light-brown, dense, very fine-grained silty sand with greenish-gray, orange, and white mica foliations. Wet.	
25						Bottom of Boring at 25 feet Soil samples collected from 0-2, 5-7, and 10-12 feet bgs for target metals.	

Geologist(s): Heather M. Usle
Subcontractor: Geo Lab
Driller/Operator: Robert Sullivan
Method: Direct Push

WSP Environment & Energy
 1740 Massachusetts Avenue
 Boxborough, MA 01719
 978-635-9600

Boring Log: MW-13D**Project:** NL-Atlanta**Project No.:** 127562**Location:** 430 Bishop St., Atlanta, GA**Completion Date:** August 5, 2009**Surface Elevation (feet AMSL*):** 901.08**TOC Elevation (feet AMSL*):** 903.60**Total Depth (feet):** 33**Borehole Diameter (inches):** 6

*AMSL = Above mean sea level



Sample Data					Subsurface Profile		Well Details
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description	
						Ground Surface	<p>The well diagram on the right shows a vertical casing with a screen at the bottom. The casing is labeled with 'WSP' and 'MW-13D'. The screen is located at approximately 15 feet depth. The well is shown extending to a depth of 33 feet.</p>
						Poorly-Graded Sand with Gravel (SP) Light-brown, loose, fine-grained sand with small gravel fragments. Dry.	
						FILL Light grayish-brown, loose, fine-grained sand with brick, coal, slag, and gravel fragments. Dry.	
5						Poorly-Graded Sand with Gravel (SP) Reddish-brown, loose, fine-grained sand with gravel and biotite mica fragments. Dry.	
						Silt with Clay (ML) Light-gray with mottled yellow-orange, soft, very fine-grained clayey silt with foliated silver mica flakes. Moist.	
10						FILL Blackish-brown, loose, fine-grained silty sand with coal, brick, gravel and wire. Gold mica flakes. Moist.	
						SAPROLITE Light reddish-brown to light-brown, soft to hard clayey silt with trace sand. Gold mica foliations. Moist to wet. 5" diameter cobble at 15' bgs.	
15							<p>The well diagram on the right shows a vertical casing with a screen at the bottom. The casing is labeled with 'WSP' and 'MW-13D'. The screen is located at approximately 15 feet depth. The well is shown extending to a depth of 33 feet.</p>
						Light-brown, hard, very fine-grained silt with greenish-black to gray biotite mica foliations. White saprolitic migmatite at 20' bgs. Wet.	
20							
25							

Geologist(s): Heather M. Usle
Subcontractor: Boart Longyear
Driller/Operator: Jeremy Triepke
Method: Rotasonic

WSP Environment & Energy
 1740 Massachusetts Avenue
 Boxborough, MA 01719
 978-635-9600

Boring Log: MW-13D**Project:** NL-Atlanta**Project No.:** 127562**Location:** 430 Bishop St., Atlanta, GA**Completion Date:** August 5, 2009**Surface Elevation (feet AMSL*):** 901.08**TOC Elevation (feet AMSL*):** 903.60**Total Depth (feet):** 33**Borehole Diameter (inches):** 6*AMSL = Above mean sea level

Sample Data					Subsurface Profile		Well Details
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description	
30						Light-brown, hard, very fine-grained silt with greenish-black to gray biotite mica foliations. White saprolitic migmatite at 20' bgs. Wet. (continued)	A vertical diagram of the well casing, showing a series of horizontal lines representing the casing segments. The top of the casing is at the surface, and it extends down to the bottom of the boring at 33 feet.
						Bluish green-gray with mottled yellow-orange, very stiff, very fine-grained silt with biotite foliations. Wet.	
					A symbol for mica schist, consisting of a series of wavy, parallel lines.	Mica Schist Bluish-black, weathered mica schist. Wet.	
35						Bottom of Boring at 33 feet	
40							
45							
50							

Geologist(s): Heather M. Usle
Subcontractor: Boart Longyear
Driller/Operator: Jeremy Triepke
Method: Rotasonic

WSP Environment & Energy
 1740 Massachusetts Avenue
 Boxborough, MA 01719
 978-635-9600

Boring Log: MW-13DD**Project:** NL-Atlanta**Project No.:** 127562**Location:** 430 Bishop St., Atlanta, GA**Completion Date:** August 4, 2009**Surface Elevation (feet AMSL*):** 901.01**TOC Elevation (feet AMSL*):** 903.67**Total Depth (feet):** 50**Borehole Diameter (inches):** 6

*AMSL = Above mean sea level



Sample Data					Subsurface Profile		Well Details
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description	
						Ground Surface	
				100		Poorly-Graded Sand with Gravel (SP) Light-brown, loose, fine-grained sand with small gravel fragments. Dry.	
5				60		FILL Light grayish-brown, loose, fine-grained sand with brick, coal, slag, and gravel fragments. Dry.	
				60		Poorly-Graded Sand with Gravel (SP) Reddish-brown, loose, fine-grained sand with gravel and biotite mica fragments. Dry.	
10				60		Silt with Clay (ML) Light-gray with mottled yellow-orange, soft, very fine-grained clayey silt with foliated silver mica flakes. Moist.	
				60		FILL Blackish-brown, loose, fine-grained silty sand with coal, brick, gravel and wire. Gold mica flakes. Moist.	
15				100		SAPROLITE Light reddish-brown to light-brown, soft to hard clayey silt with trace sand. Gold mica foliations. Moist to wet. 5" diameter cobble at 15' bgs.	
20				100		Light-brown, hard, very fine-grained silt with greenish-black to gray biotite mica foliations. Saprolitic migmatite at 20' bgs. Wet.	
25							

Geologist(s): Heather M. Usle
Subcontractor: Boart Longyear
Driller/Operator: Jeremy Triepke
Method: Rotosonic

WSP Environment & Energy
 1740 Massachusetts Avenue
 Boxborough, MA 01719
 978-635-9600

Boring Log: MW-13DD**Project:** NL-Atlanta**Project No.:** 127562**Location:** 430 Bishop St., Atlanta, GA**Completion Date:** August 4, 2009**Surface Elevation (feet AMSL*):** 901.01**TOC Elevation (feet AMSL*):** 903.67**Total Depth (feet):** 50**Borehole Diameter (inches):** 6

*AMSL = Above mean sea level



Sample Data					Subsurface Profile		Well Details
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description	
			.	100		Light-brown, hard, very fine-grained silt with greenish-black to gray biotite mica foliations. Saprolitic migmatite at 20' bgs. Wet. (continued)	A vertical diagram of the well casing. It shows a series of horizontal lines representing the casing wall. There are two distinct sections of black shading: one from approximately 35 feet to 42 feet depth, and another from approximately 43 feet to 50 feet depth.
30			.	100		Bluish green-gray with mottled yellow-orange, very stiff, very fine-grained silt with biotite foliations. Wet.	
			.	100		Mica Schist Bluish-black, weathered mica schist. Wet.	
35			.	100		Black mica schist with weathered gold mica foliations at 42' bgs. Quartz foliations from 43' to 50' bgs.	
40			.	100			
45			.	100			
50			.	100			
						Bottom of Boring at 50 feet	

Geologist(s): Heather M. Usle
Subcontractor: Boart Longyear
Driller/Operator: Jeremy Triepke
Method: Rotosonic

WSP Environment & Energy
 1740 Massachusetts Avenue
 Boxborough, MA 01719
 978-635-9600

Boring Log: MW-14**Project:** NL-Atlanta**Project No.:** 127562**Location:** 430 Bishop St., Atlanta, GA**Completion Date:** June 13, 2009**Surface Elevation (feet AMSL*):** 897.32**TOC Elevation (feet AMSL*):** 900.64**Total Depth (feet):** 25**Borehole Diameter (inches):** 2

*AMSL = Above mean sea level



Sample Data					Subsurface Profile		Well Details
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description	
						Ground Surface	
				95		Poorly-Graded Sand with Gravel (SP) Brown, loose, fine-grained sand with roots from 0-0.5 feet bgs. Large gravel and slag (FILL) near 2 feet bgs. Dry.	
5						Poorly-Graded Sand with Gravel (SP) Black, coarse-grained sand with small gravel, coal, ash, and brick (FILL). Dry.	
				80		Lean Clay (CL) Red-brown, stiff clay with trace mica. Moist.	
10						SAPROLITE Reddish-brown with mottled orange, medium dense, very fine-grained silty sand with mica. Moist.	
				85		Light-brown, medium dense, very fine-grained silty sand with mottled yellow, coarse-grained sand and mica. Wet at 10 feet bgs.	
15						Bluish-gray with mottled brown, very dense, very fine-grained silty sand with biotite foliations. Wet.	
				80		Light-brown with mottled orange, very dense, very fine-grained silty sand with horizontal mica foliations. Yellow-white, coarse-grained sand and weathered rock throughout. Wet.	
20							
25						Bottom of Boring at 25 feet Soil samples collected from 0-2, 5-7, and 9-11 feet bgs for target metals.	

Geologist(s): Heather M. Usle
Subcontractor: Geo Lab
Driller/Operator: Robert Sullivan
Method: Direct Push

WSP Environment & Energy
 1740 Massachusetts Avenue
 Boxborough, MA 01719
 978-635-9600

Boring Log: MW-15**Project:** NL-Atlanta**Project No.:** 127562**Location:** 430 Bishop St., Atlanta, GA**Completion Date:** June 15, 2009**Surface Elevation (feet AMSL*):** 894.67**TOC Elevation (feet AMSL*):** 897.35**Total Depth (feet):** 20**Borehole Diameter (inches):** 2

*AMSL = Above mean sea level



Sample Data					Subsurface Profile		Well Details
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description	
						Ground Surface	<p>The well diagram on the right shows a vertical borehole. It includes a casing at the top, a screen section between approximately 5 and 7 feet depth, and a solid section below. The soil profile is indicated by hatching patterns corresponding to the lithology in the log.</p>
				60		Poorly-Graded Sand with Silt and Gravel (SP-SM) Brown, fine-grained silty sand with gravel and rock fragments. Dry.	
						Brick fragments and cinders (FILL).	
5						Poorly-Graded Sand with Gravel (SP) Black, coarse-grained sand with cinders and coal (FILL). Dry.	
				65		Poorly-Graded Sand with Silt and Clay (SP-SM) Orange-brown, very fine-grained silty sand with some clay and mica throughout. Moist to wet.	
10						SAPROLITE Greenish-black with mottled brown, very fine-grained silty sand with biotite.	
				60		Light-brown with mottled black and orange-brown, very fine-grained silty sand with muscovite and biotite mica throughout. Wet at 13 feet bgs.	
15							
						Light-brown, dense, very fine-grained silty sand with greenish-gray, orange, and white mica foliations. Wet.	
20						Bottom of Boring at 20 feet Soil samples collected from 0-2 and 5-7 feet bgs for target metals.	
25							

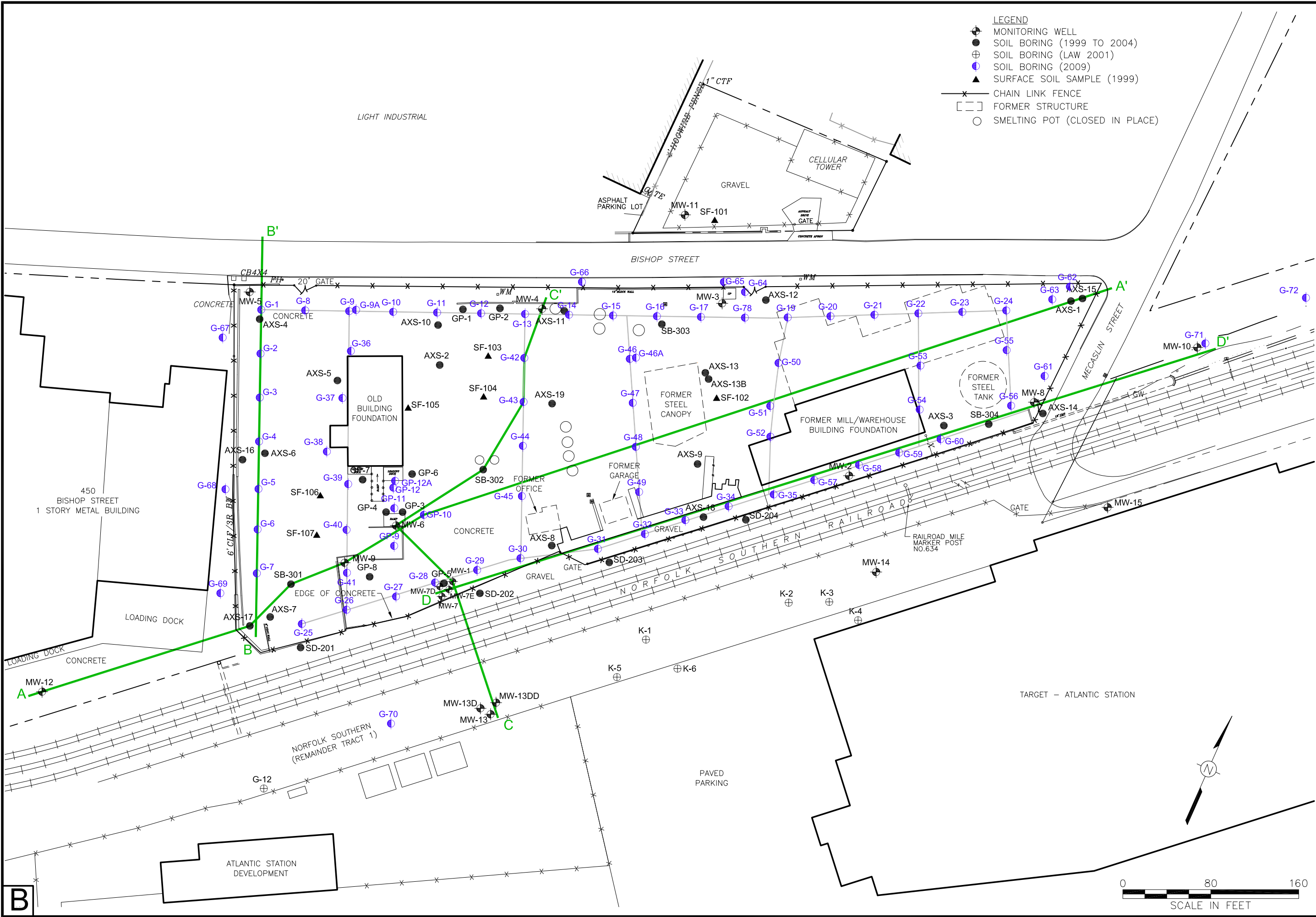
Geologist(s): Heather M. Usle
Subcontractor: Geo Lab
Driller/Operator: Robert Sullivan
Method: Direct Push

WSP Environment & Energy
 1740 Massachusetts Avenue
 Boxborough, MA 01719
 978-635-9600

APPENDIX

D GEOLOGIC CROSS SECTIONS

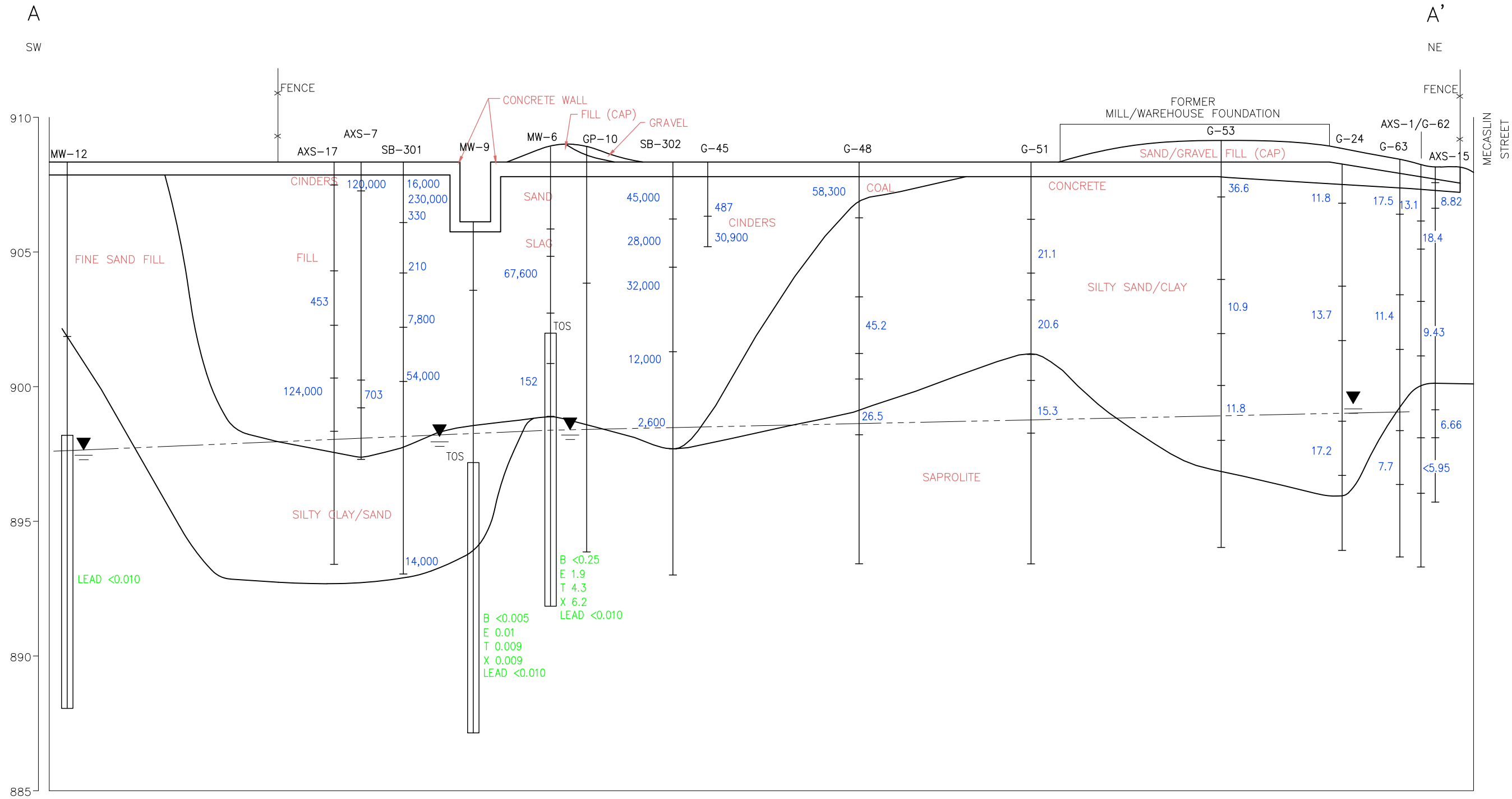
R:\ACAD\CADD\CLIENT\NL_Industries\314V1065-005.dwg 5/23/2018 3:51 PM USEC01012



Drawn By: EGC	Checked:	Approved: <i>GM</i> 5/22/2018	DWG Name: 314V1065-005
FORMER NATIONAL SMELTING & REFINING SITE ATLANTA, GEORGIA PREPARED FOR NL INDUSTRIES			
Figure D-1 GEOLOGIC CROSS SECTION LOCATIONS			
WSP USA Inc. 75 ARLINGTON STREET 4th FLOOR BOSTON, MA 02116 TEL: +1 617 426 7330			

R:\ACAD\CADD_CLIENT\NL_Industries\314V1065\CAD\314V1065-005.dwg 5/24/2018 10:40 AM USEC01012

B

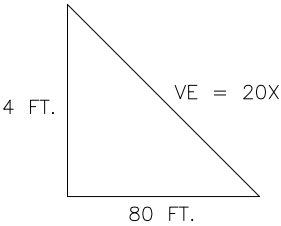


NOTES:

1. THE ORIGINAL VERSION OF THIS DRAWING IS IN COLOR. BLACK AND WHITE COPIES MAY NOT ACCURATELY DEPICT CERTAIN INFORMATION.
2. SEE FIGURE D-1 FOR CROSS SECTION LOCATIONS.

LEGEND

	CONTACT
	WATER TABLE 2018
	TOS
	LEAD CONCENTRATION IN SOIL (mg/kg)
	CONCENTRATION IN GROUNDWATER MAY 2018 (mg/kg)
	BENZENE
	TOLUENE
	ETHYLBENZENE
	XYLENE



Drawn By: EGC

Checked:

Approved: *GM* 5/22/2018

DWG Name: 314V1065-005

FORMER NATIONAL SMELTING & REFINING SITE

ATLANTA, GEORGIA

PREPARED FOR

NL INDUSTRIES

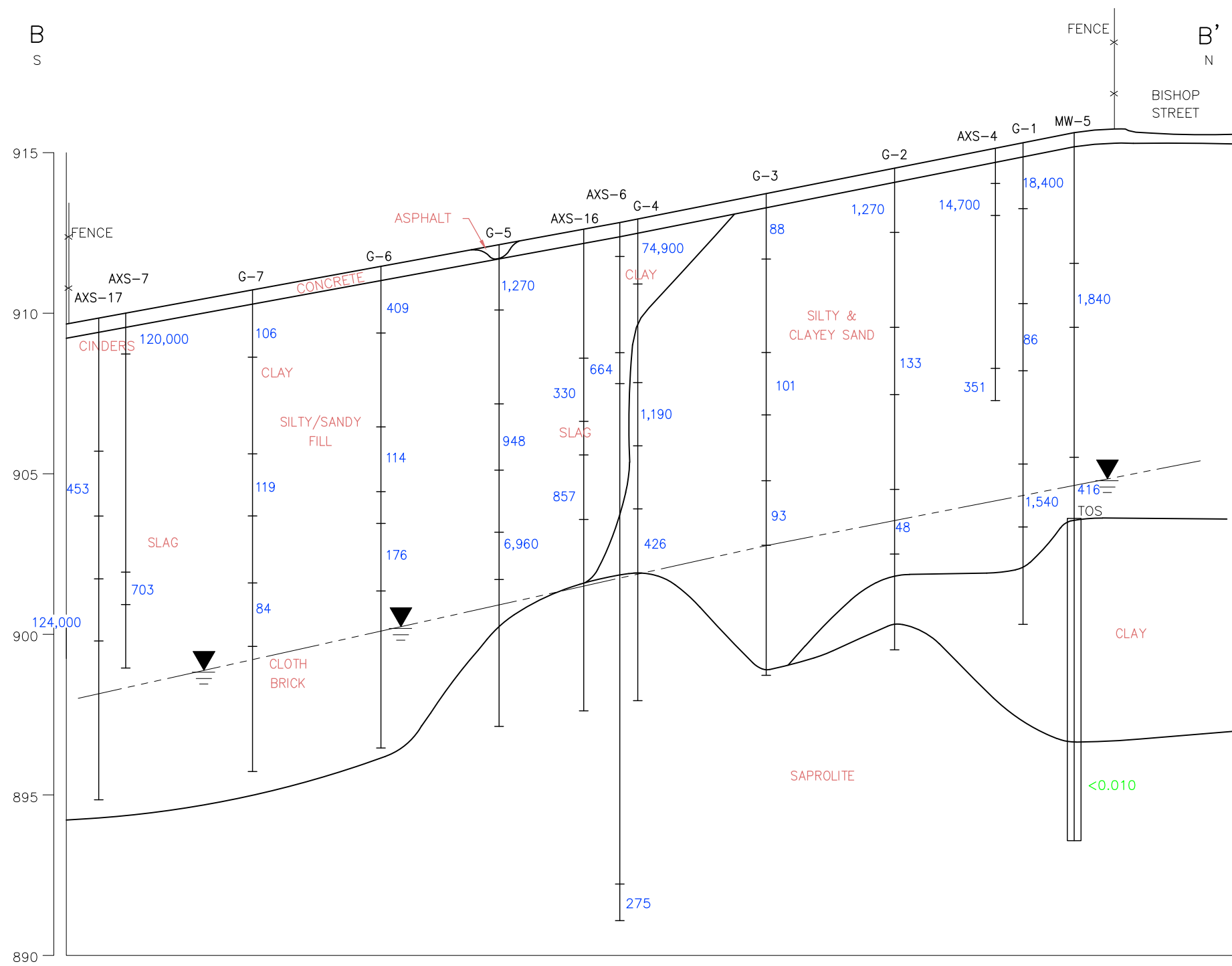
Figure D-2

GEOLOGIC CROSS SECTION A-A'

WSP USA Inc.
75 ARLINGTON STREET
4th FLOOR
BOSTON, MA 02116
TEL: +1 617 426 7330

R:\ACAD\CADD\CLIENT\NL_Industries\314V1065\CAD\314V1065-005.dwg 5/23/2018 2:42 PM USEC01012

B



- NOTES:
1. THE ORIGINAL VERSION OF THIS DRAWING IS IN COLOR. BLACK AND WHITE COPIES MAY NOT ACCURATELY DEPICT CERTAIN INFORMATION.
 2. SEE FIGURE D-1 FOR CROSS SECTION LOCATIONS.

LEGEND

CONTACT

WATER TABLE 2018

TOS

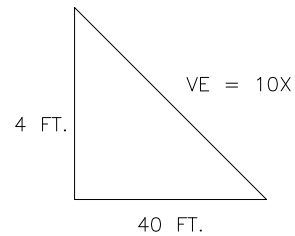
124,000

<0.010

TOP OF SCREENED INTERVAL

LEAD CONCENTRATION IN SOIL (mg/kg)

LEAD CONCENTRATION IN GROUNDWATER MAY 2018 (mg/kg)



WSP USA Inc.
75 ARLINGTON STREET
4th FLOOR
BOSTON, MA 02116
TEL: +1 617.426.7330

Figure D-3

GEOLOGIC CROSS SECTION B-B'

FORMER NATIONAL SMELTING & REFINING SITE

ATLANTA, GEORGIA

PREPARED FOR

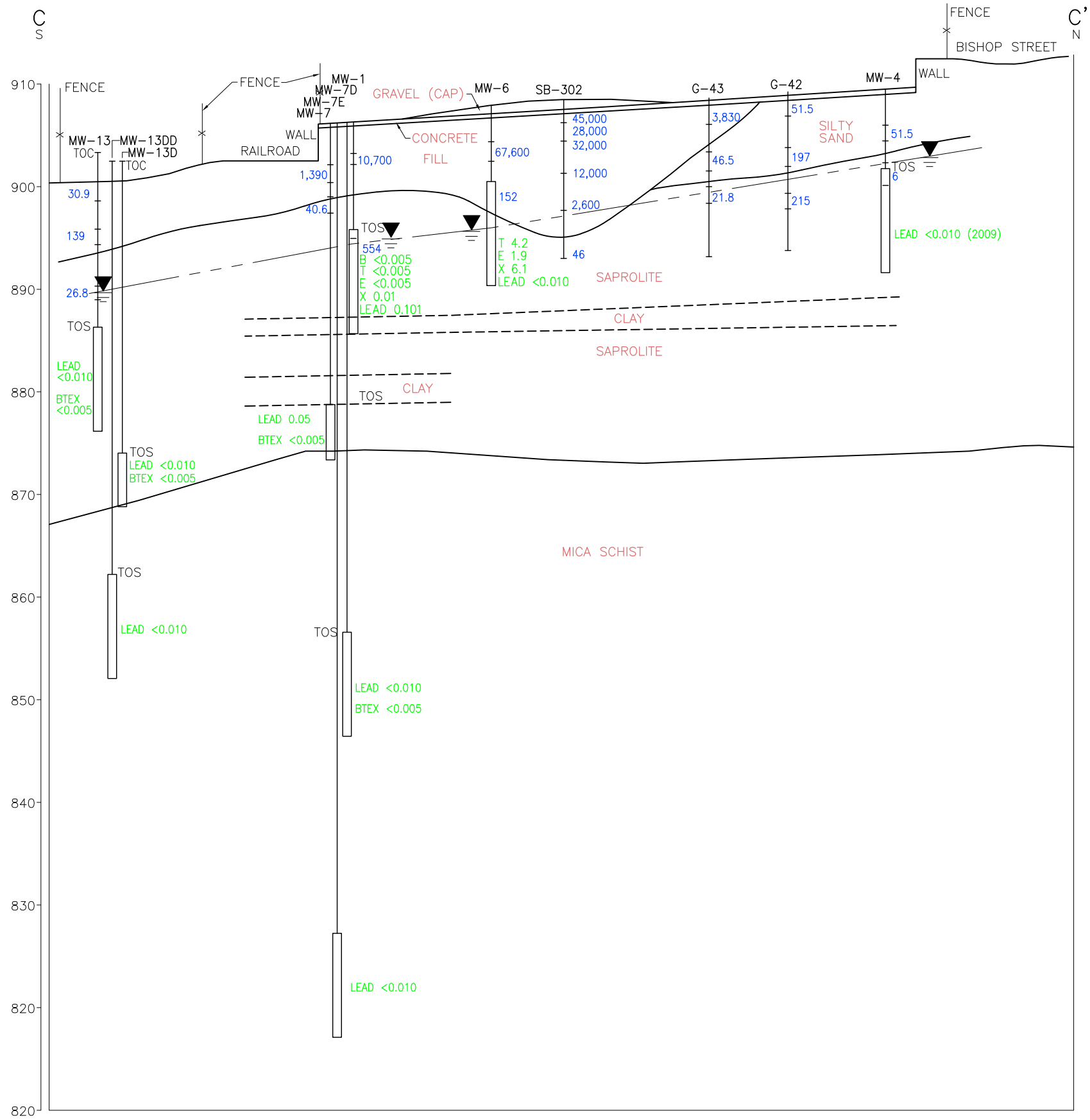
NL INDUSTRIES

Drawn By: EGC

Checked:

Approved: GMB 5/22/2018

DWG Name: 314V1065-005



LEGEND

CONTACT

WATER TABLE

TOC TOP OF CASING

TOS TOP OF SCREENED INTERVAL

10,700 LEAD CONCENTRATION IN SOIL (mg/kg)

0.023 CONCENTRATION IN GROUNDWATER MAY 2018 (mg/kg)

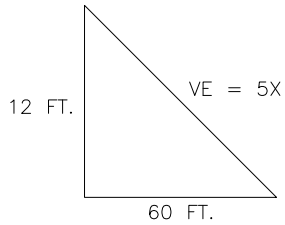
B BENZENE

T TOLUENE

E ETHYLBENZENE

X XYLENE

- NOTES:
1. THE ORIGINAL VERSION OF THIS DRAWING IS IN COLOR. BLACK AND WHITE COPIES MAY NOT ACCURATELY DEPICT CERTAIN INFORMATION.
 2. SEE FIGURE D-1 FOR CROSS SECTION LOCATIONS.



Drawn By: EGC

Checked:

Approved: *GM B* 5/22/2018

DWG Name: 314V1065-005

FORMER NATIONAL SMELTING & REFINING SITE
ATLANTA, GEORGIA
PREPARED FOR
NL INDUSTRIES

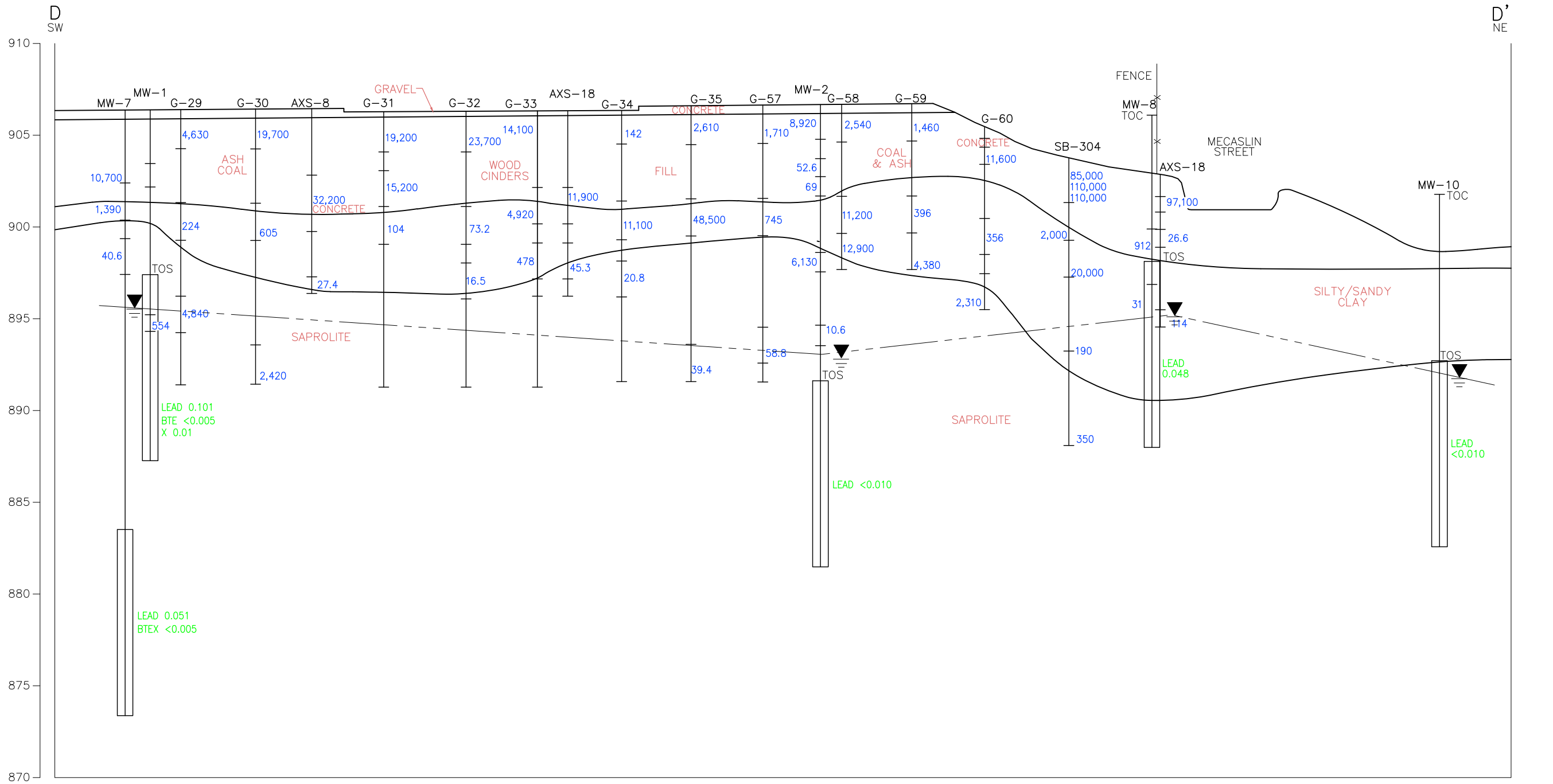
Figure D-4

GEOLOGIC CROSS SECTION C-C'

WSP
WSP USA Inc.
75 ARLINGTON STREET
4th FLOOR
BOSTON, MA 02116
TEL: +1 617.426.7330

R:\ACAD\CADD_CLIENT\NL_Industries\31401065\CAD\314V1065-005.dwg 5/24/2018 11:23 AM USEC01012

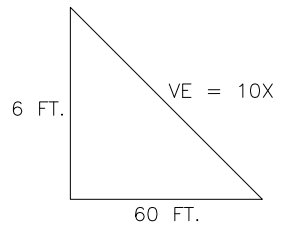
B



NOTES:

1. THE ORIGINAL VERSION OF THIS DRAWING IS IN COLOR. BLACK AND WHITE COPIES MAY NOT ACCURATELY DEPICT CERTAIN INFORMATION.
2. SEE FIGURE D-1 FOR CROSS SECTION LOCATIONS.

LEGEND	
	CONTACT
	WATER TABLE
TOC	TOP OF CASING
TOS	TOP OF SCREENED INTERVAL
110,000	LEAD CONCENTRATION IN SOIL (mg/kg)
0.975	CONCENTRATION IN GROUNDWATER MAY 2018 (mg/kg)
B	BENZENE
T	TOLUENE
E	ETHYLBENZENE
X	XYLENE



Drawn By: EGC

Checked:

Approved: GMB 5/22/2018

DWG Name: 314V1065-005

FORMER NATIONAL SMELTING & REFINING SITE
ATLANTA, GEORGIA
PREPARED FOR
NL INDUSTRIES

Figure D-5

GEOLOGIC CROSS SECTION D-D'

WSP USA Inc.
75 ARLINGTON STREET
4th FLOOR
BOSTON, MA 02116
TEL: +1 617 426 7330

APPENDIX

E

LABORATORY
ANALYTICAL REPORTS



STL

ANALYTICAL REPORT

PROJECT NO. 126988

NL-Atlanta

Lot #: H3A140175

John Johnson

Environmental Strategies Corpo
11911 Freedom Drive, Suite 900
Reston, VA 20190

SEVERN TRENT LABORATORIES, INC.

A handwritten signature in black ink, appearing to read "John Reynolds".

John Reynolds
Project Manager

January 30, 2003

Severn Trent Laboratories, Inc.
STL Knoxville • 5815 Middlebrook Pike, Knoxville, TN 37921
Tel 865 291 3000 Fax 865 584 4315 • www.stl-inc.com

ANALYTICAL METHODS SUMMARY

H3A140175

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Percent Moisture	MCAWW 160.3 MOD
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes",
EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical
Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

H3A140175

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
FF24C	001	HA-2-25 (0-0.5)	01/10/03	09:59
FF24K	002	HA-3-15 (1.0-1.5)	01/10/03	10:00
FF24M	003	HA-3-15 (1.5-2.0)	01/10/03	10:00
FF24N	004	HA-4-10 (0-0.5)	01/10/03	10:10
FF24P	005	HA-5-15 (0.5-1.0)	01/10/03	17:00
FF24Q	006	HA-5-15 (1-1.5)	01/10/03	17:00
FF24R	007	HA-6-15 (0-0.5)	01/10/03	17:10
FF24T	008	HA-6-15 (0.5-1.0)	01/10/03	17:10
FF24V	009	LAT-1-1 (1-1.5)	01/10/03	11:00
FF240	010	LAT-1-2 (1-1.5)	01/10/03	11:10
FF242	011	LAT-1-3 (0.5-1.0)	01/10/03	11:20
FF245	012	LAT-1-3 (1.0-1.5)	01/10/03	11:20
FF249	013	LAT-2-1 (0.5-1)	01/10/03	13:00
FF25A	014	EB-01-10-03	01/10/03	08:00
FF25C	015	MW-1	01/11/03	10:00
FF25R	016	MW-2	01/11/03	09:10
FF25V	017	MW-2 (1-2)	01/10/03	08:10
FF25W	018	MW-2 (3-4)	01/10/03	08:30
FF250	019	MW-2 (8-9)	01/10/03	08:40
FF251	020	MW-2 (12-13)	01/10/03	09:00
FF252	021	HA-0-15 (1.0-1.5)	01/10/03	09:10
FF254	022	HA-1-10 (0-0.5)	01/10/03	09:30
FF257	023	HA-1-10 (1-1.5)	01/10/03	09:30
FF259	024	HA-1-30 (0-0.5)	01/10/03	09:40
FF26E	025	HA-1-30 (1.0-1.5)	01/10/03	09:40
FF26G	026	HA-2-10 (0-0.5)	01/10/03	09:50
FF26H	027	LAT-2-1 (1-1.5)	01/10/03	13:00
FF26K	028	LAT-2-2 (0.5-1)	01/10/03	13:10
FF26M	029	LAT-2-2 (1-1.5)	01/10/03	13:10
FF26Q	030	LAT-2-3 (0.5-1)	01/10/03	13:30
FF26T	031	LAT-2-3 (1-1.5)	01/10/03	13:30
FF26X	032	LAT-3-1 (0-0.5)	01/10/03	14:00
FF263	033	LAT-3-1 (1-1.5)	01/10/03	14:00
FF266	034	LAT-3-2 (0.5-1.0)	01/10/03	14:10
FF40N	035	MW-1	01/11/03	10:00
FF40Q	036	MW-2	01/11/03	09:10

(Continued on next page)

PROJECT NARRATIVE

H3A140175

The results reported herein are applicable to the samples submitted for analysis only.

This report shall not be reproduced except in full, without the written approval of the laboratory.

The original chain of custody documentation is included with this report.

Sample Receipt

There were no problems with the condition of the samples received.

Quality Control

Unless otherwise noted, all holding times and QC criteria were met and the test results shown in this report meet all applicable NELAC requirements.

The batch matrix spike/matrix spike duplicate recoveries were outside control limits for some analytes. However, the laboratory control samples showed acceptable results indicating that the analysis was in control. The batch matrix spike/matrix spike duplicate results are, therefore, attributed to matrix effects. In addition, results outside of limits do not necessarily reflect poor method performance due to high analyte concentrations in the sample relative to the spike level. The affected analytes are flagged appropriately on the matrix spike/matrix spike duplicate report.

The serial dilution of sample HA-2-25(0-0.5) was outside control limits for antimony due to physical or chemical matrix interferences.

Due to a software error on Chart S012703, the raw data documents the date as 01/26/03, when it should be 01/27/03.

STL Knoxville maintains the following certifications, approvals and accreditations: Arkansas DEQ, California DHS ELAP Cert. #2423, Connecticut DPH Cert. #PH-0223, Florida DOH Cert. #E87177, Georgia DNR Cert. #906 (SDWA, 5/14/01-6/21/02), Hawaii DOH, Illinois EPA Cert. #000510, Indiana DOH Cert. #C-TN-02, Kentucky DEP Lab ID #90101, Louisiana DEQ Cert. #03079, Maryland DHMH Cert. #277, Massachusetts DEP Cert. #M-TN009, Michigan DEQ Lab ID #9933, New Jersey DEP Cert. #TN001, New York DOH Lab #10781, North Carolina DPH Lab ID #21705, North Carolina DEHNR Cert. #64, Oklahoma DEQ ID #9415, Pennsylvania DEP Cert. #68-576, South Carolina DHEC Lab ID #84001, Tennessee DOH Lab ID #02014, Virginia DGS Lab ID #00165, Washington DOE Lab #C120, Wisconsin DNR Lab ID #998044300, US Army Corps of Engineers, Naval Facilities Engineering Service Center, US EPA Perchlorate Approval and USDA Soil Permit #S-46424. This list of approvals is subject to change and does not imply that laboratory certification is available for all parameters reported in this environmental sample data report.

SAMPLE SUMMARY

H3A140175

WO #	SAMPLE#	CLIENT	SAMPLE ID	SAMPLED DATE	SAMP TIME
------	---------	--------	-----------	-----------------	--------------

NOTE (S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Sample Data Summary

ENVIRONMENTAL STRATEGIES CORPORATION

Client Sample ID: HA-2-25(0-0.5)

TOTAL Metals

Lot-Sample #...: H3A140175-001

Matrix.....: SOLID

Date Sampled...: 01/10/03

Date Received...: 01/14/03

% Moisture.....: 30

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...	3022115					
Arsenic	31.6	1.4	mg/kg	SW846 6010B	01/22-01/26/03	FF24C1AC
		Dilution Factor: 1		Analysis Time...: 18:07		
Cadmium	8.5	0.71	mg/kg	SW846 6010B	01/22-01/26/03	FF24C1AD
		Dilution Factor: 1		Analysis Time...: 18:07		
Lead	8440	4.3	mg/kg	SW846 6010B	01/22-01/26/03	FF24C1AE
		Dilution Factor: 10		Analysis Time...: 16:24		
Antimony	33.1	8.5	mg/kg	SW846 6010B	01/22-01/26/03	FF24C1AF
		Dilution Factor: 1		Analysis Time...: 18:07		
Thallium	ND	1.4	mg/kg	SW846 6010B	01/22-01/26/03	FF24C1AG
		Dilution Factor: 1		Analysis Time...: 18:07		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

ENVIRONMENTAL STRATEGIES CORPORATION

Client Sample ID: HA-3-15(1.0-1.5)

TOTAL Metals

Lot-Sample #...: H3A140175-002

Matrix.....: SOLID

Date Sampled...: 01/10/03

Date Received...: 01/14/03

% Moisture.....: 27

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 3022115						
Arsenic	945	1.4	mg/kg	SW846 6010B	01/22-01/26/03	FF24K1AC
		Dilution Factor: 1		Analysis Time...: 17:58		
Cadmium	3.0	0.68	mg/kg	SW846 6010B	01/22-01/26/03	FF24K1AD
		Dilution Factor: 1		Analysis Time...: 17:58		
Lead	211000	204	mg/kg	SW846 6010B	01/22-01/26/03	FF24K1AE
		Dilution Factor: 500		Analysis Time...: 16:42		
Antimony	5370	8.2	mg/kg	SW846 6010B	01/22-01/26/03	FF24K1AF
		Dilution Factor: 1		Analysis Time...: 17:58		
Thallium	5.5	1.4	mg/kg	SW846 6010B	01/22-01/26/03	FF24K1AG
		Dilution Factor: 1		Analysis Time...: 17:58		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

ENVIRONMENTAL STRATEGIES CORPORATION

Client Sample ID: HA-3-15(1.5-2.0)

TOTAL Metals

Lot-Sample #....: H3A140175-003

Date Sampled....: 01/10/03

Date Received...: 01/14/03

Matrix.....: SOLID

% Moisture.....: 24

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....: 3022115						
Arsenic	353	1.3	mg/kg	SW846 6010B	01/22-01/26/03	FF24M1AC
		Dilution Factor: 1		Analysis Time...: 18:03		
Cadmium	3.7	0.66	mg/kg	SW846 6010B	01/22-01/26/03	FF24M1AD
		Dilution Factor: 1		Analysis Time...: 18:03		
Lead	102000	79.2	mg/kg	SW846 6010B	01/22-01/26/03	FF24M1AE
		Dilution Factor: 200		Analysis Time...: 16:46		
Antimony	2330	7.9	mg/kg	SW846 6010B	01/22-01/26/03	FF24M1AF
		Dilution Factor: 1		Analysis Time...: 18:03		
Thallium	3.0	1.3	mg/kg	SW846 6010B	01/22-01/26/03	FF24M1AG
		Dilution Factor: 1		Analysis Time...: 18:03		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

ENVIRONMENTAL STRATEGIES CORPORATION

Client Sample ID: HA-4-10(0-0.5)

TOTAL Metals

Lot-Sample #....: H3A140175-004

Date Sampled....: 01/10/03

Date Received...: 01/14/03

Matrix.....: SOLID

% Moisture.....: 21

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....: 3017307						
Arsenic	317	1.3	mg/kg	SW846 6010B	01/22-01/28/03	FF24N1AC
		Dilution Factor: 1		Analysis Time...: 20:49		
Cadmium	3.2	0.63	mg/kg	SW846 6010B	01/22-01/28/03	FF24N1AD
		Dilution Factor: 1		Analysis Time...: 20:49		
Lead	77600	38.0	mg/kg	SW846 6010B	01/22-01/28/03	FF24N1AE
		Dilution Factor: 100		Analysis Time...: 16:32		
Antimony	2820	760	mg/kg	SW846 6010B	01/22-01/28/03	FF24N1AF
		Dilution Factor: 100		Analysis Time...: 16:32		
Thallium	3.5	1.3	mg/kg	SW846 6010B	01/22-01/28/03	FF24N1AG
		Dilution Factor: 1		Analysis Time...: 20:49		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

ENVIRONMENTAL STRATEGIES CORPORATION

Client Sample ID: HA-5-15(0.5-1.0)

TOTAL Metals

Lot-Sample #...: H3A140175-005

Date Sampled...: 01/10/03

Date Received...: 01/14/03

Matrix.....: SOLID

% Moisture.....: 27

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 3017307						
Arsenic	24.2	1.4	mg/kg	SW846 6010B	01/22-01/28/03	FF24P1AC
		Dilution Factor: 1		Analysis Time...: 16:37		
Cadmium	3.5	0.68	mg/kg	SW846 6010B	01/22-01/28/03	FF24P1AD
		Dilution Factor: 1		Analysis Time...: 16:37		
Lead	668	0.41	mg/kg	SW846 6010B	01/22-01/28/03	FF24P1AE
		Dilution Factor: 1		Analysis Time...: 16:37		
Antimony	ND	8.2	mg/kg	SW846 6010B	01/22-01/28/03	FF24P1AF
		Dilution Factor: 1		Analysis Time...: 16:37		
Thallium	ND	1.4	mg/kg	SW846 6010B	01/22-01/28/03	FF24P1AG
		Dilution Factor: 1		Analysis Time...: 16:37		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

ENVIRONMENTAL STRATEGIES CORPORATION

Client Sample ID: HA-5-15(1-1.5)

TOTAL Metals

Lot-Sample #...: H3A140175-006

Matrix.....: SOLID

Date Sampled...: 01/10/03

Date Received...: 01/14/03

% Moisture.....: 29

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...	3022115					
Arsenic	31.8	1.4	mg/kg	SW846 6010B	01/22-01/26/03	FF24Q1AC
		Dilution Factor: 1		Analysis Time...: 16:51		
Cadmium	4.1	0.71	mg/kg	SW846 6010B	01/22-01/26/03	FF24Q1AD
		Dilution Factor: 1		Analysis Time...: 16:51		
Lead	703	0.42	mg/kg	SW846 6010B	01/22-01/26/03	FF24Q1AE
		Dilution Factor: 1		Analysis Time...: 16:51		
Antimony	ND	8.5	mg/kg	SW846 6010B	01/22-01/26/03	FF24Q1AF
		Dilution Factor: 1		Analysis Time...: 16:51		
Thallium	ND	1.4	mg/kg	SW846 6010B	01/22-01/26/03	FF24Q1AG
		Dilution Factor: 1		Analysis Time...: 16:51		

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

ENVIRONMENTAL STRATEGIES CORPORATION

Client Sample ID: HA-6-15(0-0.5)

TOTAL Metals

Lot-Sample #...: H3A140175-007

Date Sampled...: 01/10/03

Date Received...: 01/14/03

Matrix.....: SOLID

% Moisture.....: 20

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...	3022115					
Arsenic	15.0	1.3	mg/kg	SW846 6010B	01/22-01/26/03	FF24R1AC
		Dilution Factor: 1		Analysis Time...: 16:55		
Cadmium	2.6	0.63	mg/kg	SW846 6010B	01/22-01/26/03	FF24R1AD
		Dilution Factor: 1		Analysis Time...: 16:55		
Lead	544	0.38	mg/kg	SW846 6010B	01/22-01/26/03	FF24R1AE
		Dilution Factor: 1		Analysis Time...: 16:55		
Antimony	ND	7.5	mg/kg	SW846 6010B	01/22-01/26/03	FF24R1AF
		Dilution Factor: 1		Analysis Time...: 16:55		
Thallium	ND	1.3	mg/kg	SW846 6010B	01/22-01/26/03	FF24R1AG
		Dilution Factor: 1		Analysis Time...: 16:55		

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

ENVIRONMENTAL STRATEGIES CORPORATION

Client Sample ID: HA-6-15(0.5-1.0)

TOTAL Metals

Lot-Sample #...: H3A140175-008

Matrix.....: SOLID

Date Sampled...: 01/10/03

Date Received...: 01/14/03

% Moisture.....: 6.2

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 3022115						
Arsenic	8.6	1.1	mg/kg	SW846 6010B	01/22-01/26/03	FF24T1AC
		Dilution Factor: 1		Analysis Time...: 17:04		
Cadmium	2.3	0.53	mg/kg	SW846 6010B	01/22-01/26/03	FF24T1AD
		Dilution Factor: 1		Analysis Time...: 17:04		
Lead	145	0.32	mg/kg	SW846 6010B	01/22-01/26/03	FF24T1AE
		Dilution Factor: 1		Analysis Time...: 17:04		
Antimony	ND	6.4	mg/kg	SW846 6010B	01/22-01/26/03	FF24T1AF
		Dilution Factor: 1		Analysis Time...: 17:04		
Thallium	ND	1.1	mg/kg	SW846 6010B	01/22-01/26/03	FF24T1AG
		Dilution Factor: 1		Analysis Time...: 17:04		

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

ENVIRONMENTAL STRATEGIES CORPORATION

Client Sample ID: LAT-1-1(1-1.5)

TOTAL Metals

Lot-Sample #...: H3A140175-009

Matrix.....: SOLID

Date Sampled...: 01/10/03

Date Received...: 01/14/03

% Moisture.....: 33

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 3022115						
Arsenic	49.0	1.5	mg/kg	SW846 6010B	01/22-01/26/03	FF24V1AC
		Dilution Factor: 1		Analysis Time...: 18:12		
Cadmium	13.4	0.75	mg/kg	SW846 6010B	01/22-01/26/03	FF24V1AD
		Dilution Factor: 1		Analysis Time...: 18:12		
Lead	18300	45.0	mg/kg	SW846 6010B	01/22-01/26/03	FF24V1AE
		Dilution Factor: 100		Analysis Time...: 17:00		
Antimony	147	9.0	mg/kg	SW846 6010B	01/22-01/26/03	FF24V1AF
		Dilution Factor: 1		Analysis Time...: 18:12		
Thallium	ND	1.5	mg/kg	SW846 6010B	01/22-01/26/03	FF24V1AG
		Dilution Factor: 1		Analysis Time...: 18:12		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

ENVIRONMENTAL STRATEGIES CORPORATION

Client Sample ID: LAT-1-2(1-1.5)

TOTAL Metals

Lot-Sample #....: H3A140175-010

Date Sampled....: 01/10/03

Date Received...: 01/14/03

Matrix.....: SOLID

% Moisture.....: 45

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....: 3022115						
Arsenic	136	1.8	mg/kg	SW846 6010B	01/22-01/26/03	FF2401AC
		Dilution Factor: 1		Analysis Time...: 18:16		
Cadmium	34.2	0.92	mg/kg	SW846 6010B	01/22-01/26/03	FF2401AD
		Dilution Factor: 1		Analysis Time...: 18:16		
Lead	33000	55.0	mg/kg	SW846 6010B	01/22-01/26/03	FF2401AE
		Dilution Factor: 100		Analysis Time...: 17:31		
Antimony	195	11.0	mg/kg	SW846 6010B	01/22-01/26/03	FF2401AF
		Dilution Factor: 1		Analysis Time...: 18:16		
Thallium	2.5	1.8	mg/kg	SW846 6010B	01/22-01/26/03	FF2401AG
		Dilution Factor: 1		Analysis Time...: 18:16		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

ENVIRONMENTAL STRATEGIES CORPORATION

Client Sample ID: LAT-1-3(0.5-1.0)

TOTAL Metals

Lot-Sample #....: H3A140175-011

Matrix.....: SOLID

Date Sampled....: 01/10/03

Date Received...: 01/14/03

% Moisture.....: 55

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....: 3022115						
Arsenic	77.1	2.2	mg/kg	SW846 6010B	01/22-01/26/03	FF2421AC
		Dilution Factor: 1		Analysis Time...: 18:21		
Cadmium	72.4	1.1	mg/kg	SW846 6010B	01/22-01/26/03	FF2421AD
		Dilution Factor: 1		Analysis Time...: 18:21		
Lead	25300	66.2	mg/kg	SW846 6010B	01/22-01/26/03	FF2421AE
		Dilution Factor: 100		Analysis Time...: 17:40		
Antimony	150	13.2	mg/kg	SW846 6010B	01/22-01/26/03	FF2421AF
		Dilution Factor: 1		Analysis Time...: 18:21		
Thallium	2.4	2.2	mg/kg	SW846 6010B	01/22-01/26/03	FF2421AG
		Dilution Factor: 1		Analysis Time...: 18:21		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

ENVIRONMENTAL STRATEGIES CORPORATION

Client Sample ID: LAT-1-3(1.0-1.5)

TOTAL Metals

Lot-Sample #....: H3A140175-012

Matrix.....: SOLID

Date Sampled....: 01/10/03

Date Received...: 01/14/03

% Moisture.....: 25

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....: 3022115						
Arsenic	4.4	1.3	mg/kg	SW846 6010B	01/22-01/26/03	FF2451AC
		Dilution Factor: 1		Analysis Time...: 17:36		
Cadmium	2.8	0.67	mg/kg	SW846 6010B	01/22-01/26/03	FF2451AD
		Dilution Factor: 1		Analysis Time...: 17:36		
Lead	249	0.40	mg/kg	SW846 6010B	01/22-01/26/03	FF2451AE
		Dilution Factor: 1		Analysis Time...: 17:36		
Antimony	8.5	8.0	mg/kg	SW846 6010B	01/22-01/26/03	FF2451AF
		Dilution Factor: 1		Analysis Time...: 17:36		
Thallium	ND	1.3	mg/kg	SW846 6010B	01/22-01/26/03	FF2451AG
		Dilution Factor: 1		Analysis Time...: 17:36		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

ENVIRONMENTAL STRATEGIES CORPORATION

Client Sample ID: LAT-2-1(0.5-1)

TOTAL Metals

Lot-Sample #...: H3A140175-013

Matrix.....: SOLID

Date Sampled...: 01/10/03

Date Received...: 01/14/03

% Moisture.....: 41

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 3022115						
Arsenic	179	1.7	mg/kg	SW846 6010B	01/22-01/26/03	FF2491AC
		Dilution Factor: 1		Analysis Time...: 18:25		
Cadmium	11.9	0.85	mg/kg	SW846 6010B	01/22-01/26/03	FF2491AD
		Dilution Factor: 1		Analysis Time...: 18:25		
Lead	46300	51.2	mg/kg	SW846 6010B	01/22-01/26/03	FF2491AE
		Dilution Factor: 100		Analysis Time...: 17:27		
Antimony	297	10.2	mg/kg	SW846 6010B	01/22-01/26/03	FF2491AF
		Dilution Factor: 1		Analysis Time...: 18:25		
Thallium	2.4	1.7	mg/kg	SW846 6010B	01/22-01/26/03	FF2491AG
		Dilution Factor: 1		Analysis Time...: 18:25		

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

ENVIRONMENTAL STRATEGIES CORPORATION

Client Sample ID: EB-01-10-03

TOTAL Metals

Lot-Sample #...: H3A140175-014

Date Sampled...: 01/10/03

Date Received...: 01/14/03

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 3022130						
Arsenic	ND	10.0	ug/L	SW846 6010B	01/22-01/24/03	FF25A1AA
		Dilution Factor: 1		Analysis Time...: 19:46		
Cadmium	ND	5.0	ug/L	SW846 6010B	01/22-01/24/03	FF25A1AC
		Dilution Factor: 1		Analysis Time...: 19:46		
Lead	422	3.0	ug/L	SW846 6010B	01/22-01/24/03	FF25A1AD
		Dilution Factor: 1		Analysis Time...: 19:46		
Antimony	ND	60.0	ug/L	SW846 6010B	01/22-01/24/03	FF25A1AE
		Dilution Factor: 1		Analysis Time...: 19:46		
Thallium	ND	10.0	ug/L	SW846 6010B	01/22-01/24/03	FF25A1AF
		Dilution Factor: 1		Analysis Time...: 19:46		

ENVIRONMENTAL STRATEGIES CORPORATION

Client Sample ID: MW-1

TOTAL Metals

Lot-Sample #....: H3A140175-015

Date Sampled....: 01/11/03

Date Received...: 01/14/03

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....: 3022130						
Arsenic	ND	10.0	ug/L	SW846 6010B	01/22-01/24/03	FF25C1AA
		Dilution Factor: 1		Analysis Time...: 19:51		
Cadmium	9.0	5.0	ug/L	SW846 6010B	01/22-01/24/03	FF25C1AC
		Dilution Factor: 1		Analysis Time...: 19:51		
Lead	44.9	3.0	ug/L	SW846 6010B	01/22-01/24/03	FF25C1AD
		Dilution Factor: 1		Analysis Time...: 19:51		
Antimony	ND	60.0	ug/L	SW846 6010B	01/22-01/24/03	FF25C1AE
		Dilution Factor: 1		Analysis Time...: 19:51		
Thallium	ND	10.0	ug/L	SW846 6010B	01/22-01/24/03	FF25C1AF
		Dilution Factor: 1		Analysis Time...: 19:51		

ENVIRONMENTAL STRATEGIES CORPORATION

Client Sample ID: MW-2

TOTAL Metals

Lot-Sample #...: H3A140175-016

Date Sampled...: 01/11/03

Date Received...: 01/14/03

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 3022130						
Arsenic	ND	10.0	ug/L	SW846 6010B	01/22-01/24/03	FF25R1AA
		Dilution Factor: 1		Analysis Time...: 19:55		
Cadmium	15.8	5.0	ug/L	SW846 6010B	01/22-01/24/03	FF25R1AC
		Dilution Factor: 1		Analysis Time...: 19:55		
Lead	28.7	3.0	ug/L	SW846 6010B	01/22-01/24/03	FF25R1AD
		Dilution Factor: 1		Analysis Time...: 19:55		
Antimony	ND	60.0	ug/L	SW846 6010B	01/22-01/24/03	FF25R1AE
		Dilution Factor: 1		Analysis Time...: 19:55		
Thallium	ND	10.0	ug/L	SW846 6010B	01/22-01/24/03	FF25R1AF
		Dilution Factor: 1		Analysis Time...: 19:55		

ENVIRONMENTAL STRATEGIES CORPORATION

Client Sample ID: MW-2(1-2)

TOTAL Metals

Lot-Sample #...: H3A140175-017

Date Sampled...: 01/10/03

Date Received...: 01/14/03

Matrix.....: SOLID

% Moisture.....: 20

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...	3022115					
Arsenic	73.7	1.2	mg/kg	SW846 6010B	01/22-01/26/03	FF25V1AC
		Dilution Factor: 1		Analysis Time...: 18:30		
Cadmium	5.3	0.62	mg/kg	SW846 6010B	01/22-01/26/03	FF25V1AD
		Dilution Factor: 1		Analysis Time...: 18:30		
Lead	8920	3.7	mg/kg	SW846 6010B	01/22-01/26/03	FF25V1AE
		Dilution Factor: 10		Analysis Time...: 17:22		
Antimony	252	7.5	mg/kg	SW846 6010B	01/22-01/26/03	FF25V1AF
		Dilution Factor: 1		Analysis Time...: 18:30		
Thallium	ND	1.2	mg/kg	SW846 6010B	01/22-01/26/03	FF25V1AG
		Dilution Factor: 1		Analysis Time...: 18:30		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

ENVIRONMENTAL STRATEGIES CORPORATION

Client Sample ID: MW-2(3-4)

TOTAL Metals

Lot-Sample #...: H3A140175-018

Matrix.....: SOLID

Date Sampled...: 01/10/03

Date Received...: 01/14/03

% Moisture.....: 22

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 3022115						
Arsenic	2.1	1.3	mg/kg	SW846 6010B	01/22-01/26/03	FF25W1AC
		Dilution Factor: 1		Analysis Time...: 17:45		
Cadmium	0.71	0.64	mg/kg	SW846 6010B	01/22-01/26/03	FF25W1AD
		Dilution Factor: 1		Analysis Time...: 17:45		
Lead	52.6	0.38	mg/kg	SW846 6010B	01/22-01/26/03	FF25W1AE
		Dilution Factor: 1		Analysis Time...: 17:45		
Antimony	ND	7.6	mg/kg	SW846 6010B	01/22-01/26/03	FF25W1AF
		Dilution Factor: 1		Analysis Time...: 17:45		
Thallium	ND	1.3	mg/kg	SW846 6010B	01/22-01/26/03	FF25W1AG
		Dilution Factor: 1		Analysis Time...: 17:45		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

ENVIRONMENTAL STRATEGIES CORPORATION

Client Sample ID: MW-2(8-9)

TOTAL Metals

Lot-Sample #....: H3A140175-019

Matrix.....: SOLID

Date Sampled....: 01/10/03

Date Received...: 01/14/03

% Moisture.....: 23

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....: 3022115						
Arsenic	54.6	1.3	mg/kg	SW846 6010B	01/22-01/26/03	FF2501AC
		Dilution Factor: 1		Analysis Time...: 18:34		
Cadmium	1.7	0.65	mg/kg	SW846 6010B	01/22-01/26/03	FF2501AD
		Dilution Factor: 1		Analysis Time...: 18:34		
Lead	6130	3.9	mg/kg	SW846 6010B	01/22-01/26/03	FF2501AE
		Dilution Factor: 10		Analysis Time...: 17:18		
Antimony	170	7.8	mg/kg	SW846 6010B	01/22-01/26/03	FF2501AF
		Dilution Factor: 1		Analysis Time...: 18:34		
Thallium	ND	1.3	mg/kg	SW846 6010B	01/22-01/26/03	FF2501AG
		Dilution Factor: 1		Analysis Time...: 18:34		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

ENVIRONMENTAL STRATEGIES CORPORATION

Client Sample ID: MW-2(12-13)

TOTAL Metals

Lot-Sample #...: H3A140175-020

Matrix.....: SOLID

Date Sampled...: 01/10/03

Date Received...: 01/14/03

% Moisture.....: 32

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 3017307						
Arsenic	ND	1.5	mg/kg	SW846 6010B	01/22-01/28/03	FF2511AC
		Dilution Factor: 1		Analysis Time...: 16:50		
Cadmium	1.4	0.73	mg/kg	SW846 6010B	01/22-01/28/03	FF2511AD
		Dilution Factor: 1		Analysis Time...: 16:50		
Lead	10.6	0.44	mg/kg	SW846 6010B	01/22-01/28/03	FF2511AE
		Dilution Factor: 1		Analysis Time...: 16:50		
Antimony	ND	8.8	mg/kg	SW846 6010B	01/22-01/28/03	FF2511AF
		Dilution Factor: 1		Analysis Time...: 16:50		
Thallium	ND	1.5	mg/kg	SW846 6010B	01/22-01/28/03	FF2511AG
		Dilution Factor: 1		Analysis Time...: 16:50		

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

ENVIRONMENTAL STRATEGIES CORPORATION

Client Sample ID: HA-0-15(1.0-1.5)

TOTAL Metals

Lot-Sample #....: H3A140175-021

Date Sampled....: 01/10/03

Date Received...: 01/14/03

Matrix.....: SOLID

% Moisture.....: 24

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....: 3017307						
Arsenic	60.6	1.3	mg/kg	SW846 6010B	01/22-01/28/03	FF2521AC
		Dilution Factor: 1		Analysis Time...: 20:53		
Cadmium	3.4	0.66	mg/kg	SW846 6010B	01/22-01/28/03	FF2521AD
		Dilution Factor: 1		Analysis Time...: 20:53		
Lead	9850	4.0	mg/kg	SW846 6010B	01/22-01/28/03	FF2521AE
		Dilution Factor: 10		Analysis Time...: 16:41		
Antimony	152	7.9	mg/kg	SW846 6010B	01/22-01/28/03	FF2521AF
		Dilution Factor: 1		Analysis Time...: 20:53		
Thallium	ND	1.3	mg/kg	SW846 6010B	01/22-01/28/03	FF2521AG
		Dilution Factor: 1		Analysis Time...: 20:53		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

ENVIRONMENTAL STRATEGIES CORPORATION

Client Sample ID: HA-1-10(0-0.5)

TOTAL Metals

Lot-Sample #....: H3A140175-022

Matrix.....: SOLID

Date Sampled....: 01/10/03

Date Received...: 01/14/03

% Moisture.....: 29

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....: 3017307						
Arsenic	108	1.4	mg/kg	SW846 6010B	01/22-01/28/03	FF2541AC
		Dilution Factor: 1		Analysis Time...: 20:58		
Cadmium	6.4	0.70	mg/kg	SW846 6010B	01/22-01/28/03	FF2541AD
		Dilution Factor: 1		Analysis Time...: 20:58		
Lead	26500	42.0	mg/kg	SW846 6010B	01/22-01/28/03	FF2541AE
		Dilution Factor: 100		Analysis Time...: 16:46		
Antimony	363	8.4	mg/kg	SW846 6010B	01/22-01/28/03	FF2541AF
		Dilution Factor: 1		Analysis Time...: 20:58		
Thallium	1.9	1.4	mg/kg	SW846 6010B	01/22-01/28/03	FF2541AG
		Dilution Factor: 1		Analysis Time...: 20:58		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

ENVIRONMENTAL STRATEGIES CORPORATION

Client Sample ID: HA-1-10(1-1.5)

TOTAL Metals

Lot-Sample #...: H3A140175-023

Date Sampled...: 01/10/03

Date Received...: 01/14/03

Matrix.....: SOLID

% Moisture.....: 22

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 3017307						
Arsenic	10.2	1.3	mg/kg	SW846 6010B	01/22-01/28/03	FF2571AC
		Dilution Factor: 1		Analysis Time...: 21:02		
Cadmium	1.3	0.64	mg/kg	SW846 6010B	01/22-01/28/03	FF2571AD
		Dilution Factor: 1		Analysis Time...: 21:02		
Lead	7380	3.8	mg/kg	SW846 6010B	01/22-01/28/03	FF2571AE
		Dilution Factor: 10		Analysis Time...: 17:04		
Antimony	263	7.7	mg/kg	SW846 6010B	01/22-01/28/03	FF2571AF
		Dilution Factor: 1		Analysis Time...: 21:02		
Thallium	1.3	1.3	mg/kg	SW846 6010B	01/22-01/28/03	FF2571AG
		Dilution Factor: 1		Analysis Time...: 21:02		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

ENVIRONMENTAL STRATEGIES CORPORATION

Client Sample ID: HA-1-30(0-0.5)

TOTAL Metals

Lot-Sample #....: H3A140175-024

Date Sampled....: 01/10/03

Date Received...: 01/14/03

Matrix.....: SOLID

% Moisture.....: 28

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....: 3017307						
Arsenic	29.8	1.4	mg/kg	SW846 6010B	01/22-01/28/03	FF2591AC
		Dilution Factor: 1		Analysis Time...: 21:07		
Cadmium	8.2	0.69	mg/kg	SW846 6010B	01/22-01/28/03	FF2591AD
		Dilution Factor: 1		Analysis Time...: 21:07		
Lead	6990	4.1	mg/kg	SW846 6010B	01/22-01/28/03	FF2591AE
		Dilution Factor: 10		Analysis Time...: 17:08		
Antimony	226	8.3	mg/kg	SW846 6010B	01/22-01/28/03	FF2591AF
		Dilution Factor: 1		Analysis Time...: 21:07		
Thallium	ND	1.4	mg/kg	SW846 6010B	01/22-01/28/03	FF2591AG
		Dilution Factor: 1		Analysis Time...: 21:07		

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

ENVIRONMENTAL STRATEGIES CORPORATION

Client Sample ID: HA-1-30(1.0-1.5)

TOTAL Metals

Lot-Sample #...: H3A140175-025

Matrix.....: SOLID

Date Sampled...: 01/10/03

Date Received...: 01/14/03

% Moisture.....: 20

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 3017307						
Arsenic	25.1	1.3	mg/kg	SW846 6010B	01/22-01/28/03	FF26E1AC
		Dilution Factor: 1		Analysis Time...: 21:11		
Cadmium	5.8	0.63	mg/kg	SW846 6010B	01/22-01/28/03	FF26E1AD
		Dilution Factor: 1		Analysis Time...: 21:11		
Lead	3390	3.8	mg/kg	SW846 6010B	01/22-01/28/03	FF26E1AE
		Dilution Factor: 10		Analysis Time...: 17:13		
Antimony	33.9	7.5	mg/kg	SW846 6010B	01/22-01/28/03	FF26E1AF
		Dilution Factor: 1		Analysis Time...: 21:11		
Thallium	1.3	1.3	mg/kg	SW846 6010B	01/22-01/28/03	FF26E1AG
		Dilution Factor: 1		Analysis Time...: 21:11		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

ENVIRONMENTAL STRATEGIES CORPORATION

Client Sample ID: HA-2-10(0-0.5)

TOTAL Metals

Lot-Sample #...: H3A140175-026

Date Sampled...: 01/10/03

Date Received...: 01/14/03

Matrix.....: SOLID

% Moisture.....: 23

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...	3017307					
Arsenic	435	1.3	mg/kg	SW846 6010B	01/22-01/28/03	FF26G1AC
		Dilution Factor: 1		Analysis Time...: 21:16		
Cadmium	14.3	0.65	mg/kg	SW846 6010B	01/22-01/28/03	FF26G1AD
		Dilution Factor: 1		Analysis Time...: 21:16		
Lead	34000	38.8	mg/kg	SW846 6010B	01/22-01/28/03	FF26G1AE
		Dilution Factor: 100		Analysis Time...: 17:17		
Antimony	893	7.8	mg/kg	SW846 6010B	01/22-01/28/03	FF26G1AF
		Dilution Factor: 1		Analysis Time...: 21:16		
Thallium	3.0	1.3	mg/kg	SW846 6010B	01/22-01/28/03	FF26G1AG
		Dilution Factor: 1		Analysis Time...: 21:16		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

ENVIRONMENTAL STRATEGIES CORPORATION

Client Sample ID: LAT-2-1(1-1.5)

TOTAL Metals

Lot-Sample #...: H3A140175-027

Date Sampled...: 01/10/03

Date Received...: 01/14/03

Matrix.....: SOLID

% Moisture.....: 31

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...	3017307					
Arsenic	22.4	1.4	mg/kg	SW846 6010B	01/22-01/28/03	FF26H1AC
		Dilution Factor: 1		Analysis Time...: 21:29		
Cadmium	3.9	0.72	mg/kg	SW846 6010B	01/22-01/28/03	FF26H1AD
		Dilution Factor: 1		Analysis Time...: 21:29		
Lead	6290	4.3	mg/kg	SW846 6010B	01/22-01/28/03	FF26H1AE
		Dilution Factor: 10		Analysis Time...: 17:22		
Antimony	114	8.7	mg/kg	SW846 6010B	01/22-01/28/03	FF26H1AF
		Dilution Factor: 1		Analysis Time...: 21:29		
Thallium	ND	1.4	mg/kg	SW846 6010B	01/22-01/28/03	FF26H1AG
		Dilution Factor: 1		Analysis Time...: 21:29		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

ENVIRONMENTAL STRATEGIES CORPORATION

Client Sample ID: LAT-2-2(0.5-1)

TOTAL Metals

Lot-Sample #....: H3A140175-028

Date Sampled....: 01/10/03

Date Received...: 01/14/03

Matrix.....: SOLID

% Moisture.....: 49

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....: 3017307						
Arsenic	29.7	2.0	mg/kg	SW846 6010B	01/22-01/28/03	FF26K1AC
		Dilution Factor: 1		Analysis Time...: 21:34		
Cadmium	61.6	0.99	mg/kg	SW846 6010B	01/22-01/28/03	FF26K1AD
		Dilution Factor: 1		Analysis Time...: 21:34		
Lead	18000	59.3	mg/kg	SW846 6010B	01/22-01/28/03	FF26K1AE
		Dilution Factor: 100		Analysis Time...: 17:26		
Antimony	83.6	11.9	mg/kg	SW846 6010B	01/22-01/28/03	FF26K1AF
		Dilution Factor: 1		Analysis Time...: 21:34		
Thallium	ND	2.0	mg/kg	SW846 6010B	01/22-01/28/03	FF26K1AG
		Dilution Factor: 1		Analysis Time...: 21:34		

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

ENVIRONMENTAL STRATEGIES CORPORATION

Client Sample ID: LAT-2-2(1-1.5)

TOTAL Metals

Lot-Sample #...: H3A140175-029

Matrix.....: SOLID

Date Sampled...: 01/10/03

Date Received...: 01/14/03

% Moisture.....: 45

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...	3017307					
Arsenic	23.0	1.8	mg/kg	SW846 6010B	01/22-01/28/03	FF26M1AC
		Dilution Factor: 1		Analysis Time...: 21:38		
Cadmium	14.9	0.90	mg/kg	SW846 6010B	01/22-01/28/03	FF26M1AD
		Dilution Factor: 1		Analysis Time...: 21:38		
Lead	9440	54.3	mg/kg	SW846 6010B	01/22-01/28/03	FF26M1AE
		Dilution Factor: 100		Analysis Time...: 17:31		
Antimony	41.4	10.9	mg/kg	SW846 6010B	01/22-01/28/03	FF26M1AF
		Dilution Factor: 1		Analysis Time...: 21:38		
Thallium	ND	1.8	mg/kg	SW846 6010B	01/22-01/28/03	FF26M1AG
		Dilution Factor: 1		Analysis Time...: 21:38		

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

ENVIRONMENTAL STRATEGIES CORPORATION

Client Sample ID: LAT-2-3(0.5-1)

TOTAL Metals

Lot-Sample #...: H3A140175-030

Date Sampled...: 01/10/03

Date Received...: 01/14/03

Matrix.....: SOLID

% Moisture.....: 44

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 3017307						
Arsenic	28.0	1.8	mg/kg	SW846 6010B	01/22-01/28/03	FF26Q1AC
		Dilution Factor: 1		Analysis Time...: 21:43		
Cadmium	17.9	0.90	mg/kg	SW846 6010B	01/22-01/28/03	FF26Q1AD
		Dilution Factor: 1		Analysis Time...: 21:43		
Lead	6920	54.0	mg/kg	SW846 6010B	01/22-01/28/03	FF26Q1AE
		Dilution Factor: 100		Analysis Time...: 17:35		
Antimony	43.2	10.8	mg/kg	SW846 6010B	01/22-01/28/03	FF26Q1AF
		Dilution Factor: 1		Analysis Time...: 21:43		
Thallium	ND	1.8	mg/kg	SW846 6010B	01/22-01/28/03	FF26Q1AG
		Dilution Factor: 1		Analysis Time...: 21:43		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

ENVIRONMENTAL STRATEGIES CORPORATION

Client Sample ID: LAT-2-3(1-1.5)

TOTAL Metals

Lot-Sample #....: H3A140175-031

Matrix.....: SOLID

Date Sampled....: 01/10/03

Date Received...: 01/14/03

% Moisture.....: 23

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....: 3017307						
Arsenic	8.9	1.3	mg/kg	SW846 6010B	01/22-01/28/03	FF26T1AC
		Dilution Factor: 1		Analysis Time...: 17:58		
Cadmium	6.1	0.65	mg/kg	SW846 6010B	01/22-01/28/03	FF26T1AD
		Dilution Factor: 1		Analysis Time...: 17:58		
Lead	841	0.39	mg/kg	SW846 6010B	01/22-01/28/03	FF26T1AE
		Dilution Factor: 1		Analysis Time...: 17:58		
Antimony	ND	7.8	mg/kg	SW846 6010B	01/22-01/28/03	FF26T1AF
		Dilution Factor: 1		Analysis Time...: 17:58		
Thallium	ND	1.3	mg/kg	SW846 6010B	01/22-01/28/03	FF26T1AG
		Dilution Factor: 1		Analysis Time...: 17:58		

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

ENVIRONMENTAL STRATEGIES CORPORATION

Client Sample ID: LAT-3-1(0-0.5)

TOTAL Metals

Lot-Sample #...: H3A140175-032

Matrix.....: SOLID

Date Sampled...: 01/10/03

Date Received...: 01/14/03

% Moisture.....: 60

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 3017307						
Arsenic	56.9	2.5	mg/kg	SW846 6010B	01/22-01/28/03	FF26X1AC
		Dilution Factor: 1		Analysis Time...: 21:47		
Cadmium	9.0	1.3	mg/kg	SW846 6010B	01/22-01/28/03	FF26X1AD
		Dilution Factor: 1		Analysis Time...: 21:47		
Lead	11400	75.5	mg/kg	SW846 6010B	01/22-01/28/03	FF26X1AE
		Dilution Factor: 100		Analysis Time...: 17:44		
Antimony	107	15.1	mg/kg	SW846 6010B	01/22-01/28/03	FF26X1AF
		Dilution Factor: 1		Analysis Time...: 21:47		
Thallium	ND	2.5	mg/kg	SW846 6010B	01/22-01/28/03	FF26X1AG
		Dilution Factor: 1		Analysis Time...: 21:47		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

ENVIRONMENTAL STRATEGIES CORPORATION

Client Sample ID: LAT-3-1(1-1.5)

TOTAL Metals

Lot-Sample #....: H3A140175-033

Matrix.....: SOLID

Date Sampled....: 01/10/03

Date Received...: 01/14/03

% Moisture.....: 21

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....: 3017307						
Arsenic	15.8	1.3	mg/kg	SW846 6010B	01/22-01/28/03	FF2631AC
		Dilution Factor: 1		Analysis Time...: 21:52		
Cadmium	7.3	0.64	mg/kg	SW846 6010B	01/22-01/28/03	FF2631AD
		Dilution Factor: 1		Analysis Time...: 21:52		
Lead	2030	3.8	mg/kg	SW846 6010B	01/22-01/28/03	FF2631AE
		Dilution Factor: 10		Analysis Time...: 17:40		
Antimony	20.4	7.6	mg/kg	SW846 6010B	01/22-01/28/03	FF2631AF
		Dilution Factor: 1		Analysis Time...: 21:52		
Thallium	ND	1.3	mg/kg	SW846 6010B	01/22-01/28/03	FF2631AG
		Dilution Factor: 1		Analysis Time...: 21:52		

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

ENVIRONMENTAL STRATEGIES CORPORATION

Client Sample ID: LAT-3-2(0.5-1.0)

TOTAL Metals

Lot-Sample #...: H3A140175-034

Date Sampled...: 01/10/03

Date Received...: 01/14/03

Matrix.....: SOLID

% Moisture.....: 20

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...	3017307					
Arsenic	2.0	1.2	mg/kg	SW846 6010B	01/22-01/28/03	FF2661AC
		Dilution Factor: 1		Analysis Time...: 18:02		
Cadmium	0.98	0.62	mg/kg	SW846 6010B	01/22-01/28/03	FF2661AD
		Dilution Factor: 1		Analysis Time...: 18:02		
Lead	47.9	0.37	mg/kg	SW846 6010B	01/22-01/28/03	FF2661AE
		Dilution Factor: 1		Analysis Time...: 18:02		
Antimony	ND	7.5	mg/kg	SW846 6010B	01/22-01/28/03	FF2661AF
		Dilution Factor: 1		Analysis Time...: 18:02		
Thallium	ND	1.2	mg/kg	SW846 6010B	01/22-01/28/03	FF2661AG
		Dilution Factor: 1		Analysis Time...: 18:02		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

ENVIRONMENTAL STRATEGIES CORPORATION

Client Sample ID: MW-1

DISSOLVED Metals

Lot-Sample #....: H3A140175-035

Matrix.....: WATER

Date Sampled....: 01/11/03

Date Received...: 01/14/03

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....: 3022129						
Arsenic	ND	10.0	ug/L	SW846 6010B	01/22-01/24/03	FF40N1AC
		Dilution Factor: 1		Analysis Time...: 20:22		
Cadmium	8.7	5.0	ug/L	SW846 6010B	01/22-01/24/03	FF40N1AD
		Dilution Factor: 1		Analysis Time...: 20:22		
Lead	38.9	3.0	ug/L	SW846 6010B	01/22-01/24/03	FF40N1AE
		Dilution Factor: 1		Analysis Time...: 20:22		
Antimony	ND	60.0	ug/L	SW846 6010B	01/22-01/24/03	FF40N1AA
		Dilution Factor: 1		Analysis Time...: 20:22		
Thallium	ND	10.0	ug/L	SW846 6010B	01/22-01/24/03	FF40N1AF
		Dilution Factor: 1		Analysis Time...: 20:22		

ENVIRONMENTAL STRATEGIES CORPORATION

Client Sample ID: MW-2

DISSOLVED Metals

Lot-Sample #...: H3A140175-036

Date Sampled...: 01/11/03

Date Received...: 01/14/03

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 3022129						
Arsenic	ND	10.0	ug/L	SW846 6010B	01/22-01/24/03	FF40Q1AC
		Dilution Factor: 1		Analysis Time...: 20:27		
Cadmium	15.4	5.0	ug/L	SW846 6010B	01/22-01/24/03	FF40Q1AD
		Dilution Factor: 1		Analysis Time...: 20:27		
Lead	14.1	3.0	ug/L	SW846 6010B	01/22-01/24/03	FF40Q1AE
		Dilution Factor: 1		Analysis Time...: 20:27		
Antimony	ND	60.0	ug/L	SW846 6010B	01/22-01/24/03	FF40Q1AA
		Dilution Factor: 1		Analysis Time...: 20:27		
Thallium	ND	10.0	ug/L	SW846 6010B	01/22-01/24/03	FF40Q1AF
		Dilution Factor: 1		Analysis Time...: 20:27		

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: H3A140175

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: H3A170000-307 Prep Batch #...: 3017307						
Antimony	ND	6.0	mg/kg	SW846 6010B	01/22-01/28/03	FF8881AE
		Dilution Factor: 1				
		Analysis Time...: 13:30				
Arsenic	ND	1.0	mg/kg	SW846 6010B	01/22-01/28/03	FF8881AA
		Dilution Factor: 1				
		Analysis Time...: 13:30				
Cadmium	ND	0.50	mg/kg	SW846 6010B	01/22-01/28/03	FF8881AC
		Dilution Factor: 1				
		Analysis Time...: 13:30				
Lead	ND	0.30	mg/kg	SW846 6010B	01/22-01/28/03	FF8881AD
		Dilution Factor: 1				
		Analysis Time...: 13:30				
Thallium	ND	1.0	mg/kg	SW846 6010B	01/22-01/28/03	FF8881AF
		Dilution Factor: 1				
		Analysis Time...: 13:30				
MB Lot-Sample #: H3A220000-115 Prep Batch #...: 3022115						
Antimony	ND	6.0	mg/kg	SW846 6010B	01/22-01/26/03	FGFRV1AE
		Dilution Factor: 1				
		Analysis Time...: 12:22				
Arsenic	ND	1.0	mg/kg	SW846 6010B	01/22-01/26/03	FGFRV1AA
		Dilution Factor: 1				
		Analysis Time...: 12:22				
Cadmium	ND	0.50	mg/kg	SW846 6010B	01/22-01/26/03	FGFRV1AC
		Dilution Factor: 1				
		Analysis Time...: 12:22				
Lead	ND	0.30	mg/kg	SW846 6010B	01/22-01/26/03	FGFRV1AD
		Dilution Factor: 1				
		Analysis Time...: 12:22				
Thallium	ND	1.0	mg/kg	SW846 6010B	01/22-01/26/03	FGFRV1AF
		Dilution Factor: 1				
		Analysis Time...: 12:22				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #....: H3A140175

Matrix.....: SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: H3A170000-307 Prep Batch #....: 3017307					
Arsenic	94	(89 - 110)	SW846 6010B	01/22-01/28/03	FF8881AG
		Dilution Factor: 1		Analysis Time...: 13:34	
Cadmium	98	(90 - 110)	SW846 6010B	01/22-01/28/03	FF8881AH
		Dilution Factor: 1		Analysis Time...: 13:34	
Lead	97	(90 - 110)	SW846 6010B	01/22-01/28/03	FF8881AJ
		Dilution Factor: 1		Analysis Time...: 13:34	
Antimony	94	(88 - 110)	SW846 6010B	01/22-01/28/03	FF8881AK
		Dilution Factor: 1		Analysis Time...: 13:34	
Thallium	96	(90 - 110)	SW846 6010B	01/22-01/28/03	FF8881AL
		Dilution Factor: 1		Analysis Time...: 13:34	
CS Lot-Sample#: H3A220000-115 Prep Batch #....: 3022115					
Arsenic	95	(89 - 110)	SW846 6010B	01/22-01/26/03	FGFRV1AG
		Dilution Factor: 1		Analysis Time...: 12:26	
Cadmium	99	(90 - 110)	SW846 6010B	01/22-01/26/03	FGFRV1AH
		Dilution Factor: 1		Analysis Time...: 12:26	
Lead	98	(90 - 110)	SW846 6010B	01/22-01/26/03	FGFRV1AJ
		Dilution Factor: 1		Analysis Time...: 12:26	
Antimony	94	(88 - 110)	SW846 6010B	01/22-01/26/03	FGFRV1AK
		Dilution Factor: 1		Analysis Time...: 12:26	
Thallium	96	(90 - 110)	SW846 6010B	01/22-01/26/03	FGFRV1AL
		Dilution Factor: 1		Analysis Time...: 12:26	

NOTE(S):

 Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H3A140175

Matrix.....: SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: H3A170000-307 Prep Batch #...: 3017307							
Arsenic	200	188	mg/kg	94	SW846 6010B	01/22-01/28/03	FF8881AG
			Dilution Factor: 1		Analysis Time...: 13:34		
Cadmium	5.00	4.92	mg/kg	98	SW846 6010B	01/22-01/28/03	FF8881AH
			Dilution Factor: 1		Analysis Time...: 13:34		
Lead	50.0	48.6	mg/kg	97	SW846 6010B	01/22-01/28/03	FF8881AJ
			Dilution Factor: 1		Analysis Time...: 13:34		
Antimony	50.0	46.8	mg/kg	94	SW846 6010B	01/22-01/28/03	FF8881AK
			Dilution Factor: 1		Analysis Time...: 13:34		
Thallium	200	192	mg/kg	96	SW846 6010B	01/22-01/28/03	FF8881AL
			Dilution Factor: 1		Analysis Time...: 13:34		
CS Lot-Sample#: H3A220000-115 Prep Batch #...: 3022115							
Arsenic	200	189	mg/kg	95	SW846 6010B	01/22-01/26/03	FGFRV1AG
			Dilution Factor: 1		Analysis Time...: 12:26		
Cadmium	5.00	4.96	mg/kg	99	SW846 6010B	01/22-01/26/03	FGFRV1AH
			Dilution Factor: 1		Analysis Time...: 12:26		
Lead	50.0	49.0	mg/kg	98	SW846 6010B	01/22-01/26/03	FGFRV1AJ
			Dilution Factor: 1		Analysis Time...: 12:26		
Antimony	50.0	47.0	mg/kg	94	SW846 6010B	01/22-01/26/03	FGFRV1AK
			Dilution Factor: 1		Analysis Time...: 12:26		
Thallium	200	192	mg/kg	96	SW846 6010B	01/22-01/26/03	FGFRV1AL
			Dilution Factor: 1		Analysis Time...: 12:26		

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #....: H3A100141

Date Sampled....: 01/09/03

Date Received...: 01/10/03

Matrix.....: SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: H3A100141-010 Prep Batch #....: 3017307						
Antimony	45 N	(75 - 125)		SW846 6010B	01/22-01/28/03	FFWCG1AP
	54 N	(75 - 125)	4.4 (0-20)	SW846 6010B	01/22-01/28/03	FFWCG1AQ
			Dilution Factor: 10			
			Analysis Time...: 16:10			
Arsenic	102	(75 - 125)		SW846 6010B	01/22-01/28/03	FFWCG1AH
	103	(75 - 125)	1.0 (0-20)	SW846 6010B	01/22-01/28/03	FFWCG1AJ
			Dilution Factor: 10			
			Analysis Time...: 16:10			
Cadmium	151 N	(75 - 125)		SW846 6010B	01/22-01/28/03	FFWCG1AK
	137 N	(75 - 125)	8.2 (0-20)	SW846 6010B	01/22-01/28/03	FFWCG1AL
			Dilution Factor: 10			
			Analysis Time...: 16:10			
Lead	NC,MSB	(75 - 125)		SW846 6010B	01/22-01/28/03	FFWCG1AM
	NC,MSB	(75 - 125)	(0-20)	SW846 6010B	01/22-01/28/03	FFWCG1AN
			Dilution Factor: 10			
			Analysis Time...: 16:10			
Thallium	96	(75 - 125)		SW846 6010B	01/22-01/28/03	FFWCG1AR
	97	(75 - 125)	1.4 (0-20)	SW846 6010B	01/22-01/28/03	FFWCG1AT
			Dilution Factor: 10			
			Analysis Time...: 16:10			

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

N Spiked analyte recovery is outside stated control limits.

NC The recovery and/or RPD were not calculated.

MSB The recovery and RPD were not calculated because the sample amount was greater than four times the spike amount.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H3A100141

Matrix.....: SOLID

Date Sampled...: 01/09/03

Date Received...: 01/10/03

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
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MS Lot-Sample #: H3A100141-010 Prep Batch #...: 3017307

% Moisture.....: 16

Antimony

92.6	59.5	119 N	mg/kg	45			SW846 6010B	01/22-01/28/03	FFWCG1A
92.6	59.5	125 N	mg/kg	54	4.4		SW846 6010B	01/22-01/28/03	FFWCG1A
Dilution Factor: 10									
Analysis Time...: 16:10									

Arsenic

17.7	238	261	mg/kg	102			SW846 6010B	01/22-01/28/03	FFWCG1A
17.7	238	264	mg/kg	103	1.0		SW846 6010B	01/22-01/28/03	FFWCG1A
Dilution Factor: 10									
Analysis Time...: 16:10									

Cadmium

1.3	5.95	10.3 N	mg/kg	151			SW846 6010B	01/22-01/28/03	FFWCG1A
1.3	5.95	9.46 N	mg/kg	137	8.2		SW846 6010B	01/22-01/28/03	FFWCG1A
Dilution Factor: 10									
Analysis Time...: 16:10									

Lead

1210	59.5	1050	mg/kg				SW846 6010B	01/22-01/28/03	FFWCG1A
Qualifiers: NC,MSB									
1210	59.5	812	mg/kg				SW846 6010B	01/22-01/28/03	FFWCG1A
Qualifiers: NC,MSB									
Dilution Factor: 10									
Analysis Time...: 16:10									

Thallium

1.2	238	229	mg/kg	96			SW846 6010B	01/22-01/28/03	FFWCG1A
1.2	238	232	mg/kg	97	1.4		SW846 6010B	01/22-01/28/03	FFWCG1A
Dilution Factor: 10									
Analysis Time...: 16:10									

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

N Spiked analyte recovery is outside stated control limits.

NC The recovery and/or RPD were not calculated.

MSB The recovery and RPD were not calculated because the sample amount was greater than four times the spike amount.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #....: H3A140175

Date Sampled....: 01/10/03

Date Received...: 01/14/03

Matrix.....: SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: H3A140175-001 Prep Batch #....: 3022115							
Antimony	56 N	(75 - 125)			SW846 6010B	01/22-01/26/03	FF24C1AQ
	52 N	(75 - 125)	4.2	(0-20)	SW846 6010B	01/22-01/26/03	FF24C1AR
			Dilution Factor: 10				
			Analysis Time...: 16:28				
Arsenic	97	(75 - 125)			SW846 6010B	01/22-01/26/03	FF24C1AJ
	94	(75 - 125)	2.9	(0-20)	SW846 6010B	01/22-01/26/03	FF24C1AK
			Dilution Factor: 10				
			Analysis Time...: 16:28				
Cadmium	127 N	(75 - 125)			SW846 6010B	01/22-01/26/03	FF24C1AL
	85	(75 - 125)	18	(0-20)	SW846 6010B	01/22-01/26/03	FF24C1AM
			Dilution Factor: 10				
			Analysis Time...: 16:28				
Lead	NC,MSB	(75 - 125)			SW846 6010B	01/22-01/26/03	FF24C1AN
	NC,MSB	(75 - 125)		(0-20)	SW846 6010B	01/22-01/26/03	FF24C1AP
			Dilution Factor: 10				
			Analysis Time...: 16:28				
Thallium	94	(75 - 125)			SW846 6010B	01/22-01/26/03	FF24C1AT
	94	(75 - 125)	0.35	(0-20)	SW846 6010B	01/22-01/26/03	FF24C1AU
			Dilution Factor: 10				
			Analysis Time...: 16:28				

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

NC The recovery and/or RPD were not calculated.

MSB The recovery and RPD were not calculated because the sample amount was greater than four times the spike amount.

N Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H3A140175

Matrix.....: SOLID

Date Sampled...: 01/10/03

Date Received...: 01/14/03

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
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MS Lot-Sample #: H3A140175-001 Prep Batch #...: 3022115

% Moisture.....: 30

Antimony

33.1	71.2	73.2 N	mg/kg	56			SW846 6010B	01/22-01/26/03	FF24C1A
33.1	71.2	70.2 N	mg/kg	52	4.2		SW846 6010B	01/22-01/26/03	FF24C1A
Dilution Factor: 10									
Analysis Time...: 16:28									

Arsenic

31.6	285	309	mg/kg	97			SW846 6010B	01/22-01/26/03	FF24C1A
31.6	285	300	mg/kg	94	2.9		SW846 6010B	01/22-01/26/03	FF24C1A
Dilution Factor: 10									
Analysis Time...: 16:28									

Cadmium

8.5	7.12	17.6 N	mg/kg	127			SW846 6010B	01/22-01/26/03	FF24C1A
8.5	7.12	14.6	mg/kg	85	18		SW846 6010B	01/22-01/26/03	FF24C1A
Dilution Factor: 10									
Analysis Time...: 16:28									

Lead

8440	71.2	10600	mg/kg				SW846 6010B	01/22-01/26/03	FF24C1A
Qualifiers: NC,MSB									
8440	71.2	8520	mg/kg				SW846 6010B	01/22-01/26/03	FF24C1A
Qualifiers: NC,MSB									
Dilution Factor: 10									
Analysis Time...: 16:28									

Thallium

ND	285	269	mg/kg	94			SW846 6010B	01/22-01/26/03	FF24C1A
ND	285	268	mg/kg	94	0.35		SW846 6010B	01/22-01/26/03	FF24C1A
Dilution Factor: 10									
Analysis Time...: 16:28									

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

NC The recovery and/or RPD were not calculated.

MSB The recovery and RPD were not calculated because the sample amount was greater than four times the spike amount.

N Spiked analyte recovery is outside stated control limits.

METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: H3A140175

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: H3A220000-129 Prep Batch #...: 3022129						
Antimony	ND	60.0	ug/L	SW846 6010B	01/22-01/24/03	FGFT01AA
		Dilution Factor: 1 Analysis Time...: 14:56				
Arsenic	ND	10.0	ug/L	SW846 6010B	01/22-01/24/03	FGFT01AC
		Dilution Factor: 1 Analysis Time...: 14:56				
Cadmium	ND	5.0	ug/L	SW846 6010B	01/22-01/24/03	FGFT01AD
		Dilution Factor: 1 Analysis Time...: 14:56				
Lead	ND	3.0	ug/L	SW846 6010B	01/22-01/24/03	FGFT01AE
		Dilution Factor: 1 Analysis Time...: 14:56				
Thallium	ND	10.0	ug/L	SW846 6010B	01/22-01/24/03	FGFT01AF
		Dilution Factor: 1 Analysis Time...: 14:56				

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #....: H3A140175

Matrix.....: WATER

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
LCS Lot-Sample#: H3A220000-129 Prep Batch #....: 3022129					
Antimony	97	(90 - 110)	SW846 6010B	01/22-01/24/03	FGFT01AG
		Dilution Factor: 1		Analysis Time...: 15:00	
Arsenic	98	(90 - 110)	SW846 6010B	01/22-01/24/03	FGFT01AH
		Dilution Factor: 1		Analysis Time...: 15:00	
Cadmium	99	(90 - 110)	SW846 6010B	01/22-01/24/03	FGFT01AJ
		Dilution Factor: 1		Analysis Time...: 15:00	
Lead	99	(90 - 110)	SW846 6010B	01/22-01/24/03	FGFT01AK
		Dilution Factor: 1		Analysis Time...: 15:00	
Thallium	98	(90 - 110)	SW846 6010B	01/22-01/24/03	FGFT01AL
		Dilution Factor: 1		Analysis Time...: 15:00	

NOTE(S) :

 Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: H3A140175

Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: H3A220000-129 Prep Batch #...: 3022129							
Antimony	500	484	ug/L	97	SW846 6010B	01/22-01/24/03	FGFT01AG
			Dilution Factor: 1		Analysis Time...: 15:00		
Arsenic	2000	1950	ug/L	98	SW846 6010B	01/22-01/24/03	FGFT01AH
			Dilution Factor: 1		Analysis Time...: 15:00		
Cadmium	50.0	49.6	ug/L	99	SW846 6010B	01/22-01/24/03	FGFT01AJ
			Dilution Factor: 1		Analysis Time...: 15:00		
Lead	500	494	ug/L	99	SW846 6010B	01/22-01/24/03	FGFT01AK
			Dilution Factor: 1		Analysis Time...: 15:00		
Thallium	2000	1970	ug/L	98	SW846 6010B	01/22-01/24/03	FGFT01AL
			Dilution Factor: 1		Analysis Time...: 15:00		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: H3A140175

Matrix.....: WATER

Date Sampled...: 01/11/03

Date Received...: 01/14/03

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: H3A140175-036 Prep Batch #...: 3022129						
Antimony	97	(75 - 125)		SW846 6010B	01/22-01/24/03	FF40Q1AG
	99	(75 - 125) 1.9	(0-20)	SW846 6010B	01/22-01/24/03	FF40Q1AH
		Dilution Factor: 1				
		Analysis Time...: 20:40				
Arsenic	98	(75 - 125)		SW846 6010B	01/22-01/24/03	FF40Q1AJ
	100	(75 - 125) 2.4	(0-20)	SW846 6010B	01/22-01/24/03	FF40Q1AK
		Dilution Factor: 1				
		Analysis Time...: 20:40				
Cadmium	98	(75 - 125)		SW846 6010B	01/22-01/24/03	FF40Q1AL
	95	(75 - 125) 2.1	(0-20)	SW846 6010B	01/22-01/24/03	FF40Q1AM
		Dilution Factor: 1				
		Analysis Time...: 20:40				
Lead	97	(75 - 125)		SW846 6010B	01/22-01/24/03	FF40Q1AN
	100	(75 - 125) 2.3	(0-20)	SW846 6010B	01/22-01/24/03	FF40Q1AP
		Dilution Factor: 1				
		Analysis Time...: 20:40				
Thallium	98	(75 - 125)		SW846 6010B	01/22-01/24/03	FF40Q1AQ
	100	(75 - 125) 2.3	(0-20)	SW846 6010B	01/22-01/24/03	FF40Q1AR
		Dilution Factor: 1				
		Analysis Time...: 20:40				

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #....: H3A140175

Matrix.....: WATER

Date Sampled....: 01/11/03

Date Received...: 01/14/03

PARAMETER	AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
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MS Lot-Sample #: H3A140175-036 Prep Batch #....: 3022129

Antimony

ND	500	496	ug/L	97			SW846 6010B	01/22-01/24/03	FF40Q1A
ND	500	505	ug/L	99	1.9		SW846 6010B	01/22-01/24/03	FF40Q1A

Dilution Factor: 1

Analysis Time...: 20:40

Arsenic

ND	2000	1960	ug/L	98			SW846 6010B	01/22-01/24/03	FF40Q1A
ND	2000	2000	ug/L	100	2.4		SW846 6010B	01/22-01/24/03	FF40Q1A

Dilution Factor: 1

Analysis Time...: 20:40

Cadmium

15.4	50.0	64.3	ug/L	98			SW846 6010B	01/22-01/24/03	FF40Q1A
15.4	50.0	62.9	ug/L	95	2.1		SW846 6010B	01/22-01/24/03	FF40Q1A

Dilution Factor: 1

Analysis Time...: 20:40

Lead

14.1	500	501	ug/L	97			SW846 6010B	01/22-01/24/03	FF40Q1A
14.1	500	513	ug/L	100	2.3		SW846 6010B	01/22-01/24/03	FF40Q1A

Dilution Factor: 1

Analysis Time...: 20:40

Thallium

ND	2000	1950	ug/L	98			SW846 6010B	01/22-01/24/03	FF40Q1A
ND	2000	2000	ug/L	100	2.3		SW846 6010B	01/22-01/24/03	FF40Q1A

Dilution Factor: 1

Analysis Time...: 20:40

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #....: H3A140175

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: H3A220000-130 Prep Batch #....: 3022130						
Antimony	ND	60.0	ug/L	SW846 6010B	01/22-01/24/03	FGFT21AC
		Dilution Factor: 1				
		Analysis Time...: 14:47				
Arsenic	ND	10.0	ug/L	SW846 6010B	01/22-01/24/03	FGFT21AD
		Dilution Factor: 1				
		Analysis Time...: 14:47				
Cadmium	ND	5.0	ug/L	SW846 6010B	01/22-01/24/03	FGFT21AG
		Dilution Factor: 1				
		Analysis Time...: 14:47				
Lead	ND	3.0	ug/L	SW846 6010B	01/22-01/24/03	FGFT21AN
		Dilution Factor: 1				
		Analysis Time...: 14:47				
Thallium	ND	10.0	ug/L	SW846 6010B	01/22-01/24/03	FGFT21CP
		Dilution Factor: 1				
		Analysis Time...: 14:47				

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #....: H3A140175

Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: H3A220000-130 Prep Batch #....: 3022130					
Antimony	98	(90 - 110)	SW846 6010B	01/22-01/24/03	FGFT21A2
		Dilution Factor: 1		Analysis Time...: 14:51	
Arsenic	99	(90 - 110)	SW846 6010B	01/22-01/24/03	FGFT21A3
		Dilution Factor: 1		Analysis Time...: 14:51	
Cadmium	101	(90 - 110)	SW846 6010B	01/22-01/24/03	FGFT21A6
		Dilution Factor: 1		Analysis Time...: 14:51	
Lead	100	(90 - 110)	SW846 6010B	01/22-01/24/03	FGFT21CD
		Dilution Factor: 1		Analysis Time...: 14:51	
Thallium	99	(90 - 110)	SW846 6010B	01/22-01/24/03	FGFT21CQ
		Dilution Factor: 1		Analysis Time...: 14:51	

NOTE(S):

 Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H3A140175

Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: H3A220000-130 Prep Batch #...: 3022130							
Antimony	500	491	ug/L	98	SW846 6010B	01/22-01/24/03	FGFT21A2
			Dilution Factor: 1		Analysis Time...: 14:51		
Arsenic	2000	1980	ug/L	99	SW846 6010B	01/22-01/24/03	FGFT21A3
			Dilution Factor: 1		Analysis Time...: 14:51		
Cadmium	50.0	50.4	ug/L	101	SW846 6010B	01/22-01/24/03	FGFT21A6
			Dilution Factor: 1		Analysis Time...: 14:51		
Lead	500	499	ug/L	100	SW846 6010B	01/22-01/24/03	FGFT21CD
			Dilution Factor: 1		Analysis Time...: 14:51		
Thallium	2000	1990	ug/L	99	SW846 6010B	01/22-01/24/03	FGFT21CQ
			Dilution Factor: 1		Analysis Time...: 14:51		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #....: H3A140175

Date Sampled....: 01/09/03

Date Received...: 01/10/03

Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: H3A100268-002 Prep Batch #....: 3022130						
Antimony	100	(75 - 125)		SW846 6010B	01/22-01/24/03	FFXDR1A8
	99	(75 - 125)	1.1 (0-20)	SW846 6010B	01/22-01/24/03	FFXDR1A9
		Dilution Factor: 1				
		Analysis Time...: 20:04				
Arsenic	100	(75 - 125)		SW846 6010B	01/22-01/24/03	FFXDR1CA
	99	(75 - 125)	1.4 (0-20)	SW846 6010B	01/22-01/24/03	FFXDR1CC
		Dilution Factor: 1				
		Analysis Time...: 20:04				
Cadmium	103	(75 - 125)		SW846 6010B	01/22-01/24/03	FFXDR1CH
	102	(75 - 125)	0.97 (0-20)	SW846 6010B	01/22-01/24/03	FFXDR1CJ
		Dilution Factor: 1				
		Analysis Time...: 20:04				
Lead	101	(75 - 125)		SW846 6010B	01/22-01/24/03	FFXDR1CW
	100	(75 - 125)	0.89 (0-20)	SW846 6010B	01/22-01/24/03	FFXDR1CX
		Dilution Factor: 1				
		Analysis Time...: 20:04				

NOTE(S) :

 Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #....: H3A140175

Matrix.....: WATER

Date Sampled....: 01/09/03

Date Received...: 01/10/03

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
-----------	---------------	-----------	---------------	-------	---------------	-----	--------	----------------------------	--------------

MS Lot-Sample #: H3A100268-002 Prep Batch #....: 3022130

Antimony

ND	500	500	ug/L	100			SW846 6010B	01/22-01/24/03	FFXDR1A
ND	500	494	ug/L	99	1.1		SW846 6010B	01/22-01/24/03	FFXDR1A

Dilution Factor: 1

Analysis Time...: 20:04

Arsenic

ND	2000	2010	ug/L	100			SW846 6010B	01/22-01/24/03	FFXDR1C
ND	2000	1980	ug/L	99	1.4		SW846 6010B	01/22-01/24/03	FFXDR1C

Dilution Factor: 1

Analysis Time...: 20:04

Cadmium

ND	50.0	51.5	ug/L	103			SW846 6010B	01/22-01/24/03	FFXDR1C
ND	50.0	51.0	ug/L	102	0.97		SW846 6010B	01/22-01/24/03	FFXDR1C

Dilution Factor: 1

Analysis Time...: 20:04

Lead

ND	500	505	ug/L	101			SW846 6010B	01/22-01/24/03	FFXDR1C
ND	500	501	ug/L	100	0.89		SW846 6010B	01/22-01/24/03	FFXDR1C

Dilution Factor: 1

Analysis Time...: 20:04

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

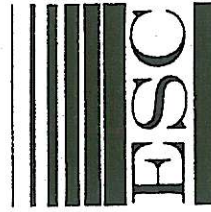
Sample Receipt Documentation

No. 023488

CHAIN OF CUSTODY RECORD

Page 1 of 3

PROJECT NO. 126.988		PROJECT NAME AND LOCATION: NL - Atlanta		PRINT NAME: Jesse Morgan		NO. OF CONTAINERS		REMARKS	
SAMPLE I.D.	SAMPLE LOCATION	DATE	TIME	MATRIX	Lead	Asbestos	Cadmium	Thallium	Antimony
HA-2-25 (0-0.5)	/	11/4/03	955	Soil	X			X	
HA-3-15 (1.0-1.5)	/	11/10/03	1000	Soil					
HA-3-15 (1.5-2.0)	/	11/10/03	1005	Soil					
HA-4-10 (0-0.5)	/	11/10/03	1015	Soil					
HA-5-15 (0.5-1.0)	/	11/10/03	1700	Soil					
HA-5-15 (1-1.5)	/	11/10/03	1705	Soil					
HA-6-15 (0-0.5)	/	11/10/03	1710	Soil					
HA-6-15 (0.5-1.0)	/	11/10/03	1715	Soil					
Lat-1-1 (1-1.5)	/	11/10/03	1100	Soil					
Lat-1-2 (1-1.5)	/	11/10/03	1110	Soil					
Lat-1-3 (0.5-1.0)	/	11/10/03	1120	Soil					
Lat-1-3 (1.0-1.5)	/	11/10/03	1125	Soil					
Lat-2-1 (0.5-1)	/	11/10/03	1300	Soil					
Relinquished by: (Signature) Jesse Morgan		Date/Time	Received by: (Signature) [Signature]		LAB NAME: 572 - Knoxville		CITY:		
Relinquished by: (Signature) [Signature]		Date/Time	Received by: (Signature) [Signature]		COURIER:		AIRBILL NO.		
Received for Laboratory by: (Signature) [Signature]		Date/Time	PRINT NAME: Matthew F. Howard		CUSTODY SEAL NOS:		COOLER NO:		
ATTENTION LAB: SEND ANALYTICAL RESULTS TO THE FOLLOWING ESC STAFF MEMBER:		ENVIRONMENTAL STRATEGIES CORPORATION 11911 Freedom Drive Reston, Virginia 20190 (703) 709-6500 • Fax (703) 318-3995 Fax (412) 787-8065							



No. 023487

CHAIN OF CUSTODY RECORD

H3A140175

Page 2 of 3

PROJECT NO. 126938		PROJECT NAME AND LOCATION: NL - Atlanta		PRINT NAME: Jesse F. Howard		SAMPLE LOCATION		DATE		TIME		MATRIX		NO. OF CONTAINERS		REMARKS				
SAMPLERS: (Signature)		SAMPLER I.D.		SAMPLE LOCATION		DATE		TIME		MATRIX		NO. OF CONTAINERS		REMARKS						
Jesse F. Howard		EW-01-10-03		Split Specimen - MW-1		1/10/03		0905		Ag		1		Total						
Jesse F. Howard		MW-1		/		1/10/03		1005		Ag		2		Total + Dissolved						
Jesse F. Howard		MW-2		/		1/10/03		0915		Ag		2		Total + Dissolved						
Jesse F. Howard		MW-2 (1-2)		/		1/10/03		0915		SAI		1								
Jesse F. Howard		MW-2 (3-4)		/		1/10/03		0930		Soil		1								
Jesse F. Howard		MW-2 (8-9)		/		1/10/03		0945		Soil		1								
Jesse F. Howard		MW-2 (12-13)		/		1/10/03		0900		Soil		1								
Jesse F. Howard		HA-0-15 (1.0-1.5)		/		1/10/03		0915		Soil		1								
Jesse F. Howard		HA-1-10 (0-0.5)		/		1/10/03		0930		Soil		1								
Jesse F. Howard		HA-1-10 (1-1.5)		/		1/10/03		0935		Soil		1								
Jesse F. Howard		HA-1-30 (0-0.5)		/		1/10/03		0940		Soil		1								
Jesse F. Howard		HA-1-30 (1.0-1.5)		/		1/10/03		0945		Soil		1								
Jesse F. Howard		HA-2-10 (0-0.5)		/		1/10/03		0950		Soil		1								
Relinquished by: (Signature)		Date/Time		Received by: (Signature)		Date/Time		LAB NAME:		CITY:		ENVIRONMENTAL STRATEGIES CORPORATION 11911 Freedom Drive Reston, Virginia 20190 (703) 709-6500 • Fax (703) 318-3995 Fax (412) 787-8065								
Jesse F. Howard		1/10/03 1200		Jesse F. Howard		1/10/03		572 - Knoxville		CITY:										
Relinquished by: (Signature)		Date/Time		Received by: (Signature)		Date/Time		COURIER:		AIRBILL NO.										
Jesse F. Howard		1/13/03 1600		Jesse F. Howard		1/13/03														
Received for Laboratory by: (Signature)		PRINT NAME:		Date/Time		CUSTODY SEAL NOS:		COOLER NO:												
Matthew F. Howard		Matthew F. Howard		1/14/03 0900																
ATTENTION LAB: SEND ANALYTICAL RESULTS TO THE FOLLOWING ESC STAFF MEMBER:																				



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

March 01, 2004

Gigi Beaulieu
Environmental Strategies Corporation, LLC
1740 Massachusettes Avenue
Boxborough, MA 01719

TEL: (978) 808-4612

FAX (978) 264-0537

RE: National Smelting & Refining

Order No.: 0402A27

Dear Gigi Beaulieu:

Analytical Environmental Services, Inc. received 6 samples on 2/24/2004 4:22:00 PM for the analyses presented in the following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative. AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water, effective 07/02/03-06/30/04.
- AIHA Certification number 505 for analysis of Air, Paint Chips, Soil and Dust Wipes, effective until 05/01/04.

These results relate only to the items tested. This report may only be reproduced in full and contains 40 total pages (including cover letter).

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Josh Sitz
Project Manager

0402A27

CHAIN OF CUSTODY RECORD

DISTRIBUTION: ORIGINAL ACCOMPANIES SHIPMENT; COPY TO ESC FILES

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client ESC Work Order Number 0402A27

Checklist completed by Nyerie Abene Date 2/24/04
Signature Date

Carrier name: FedEx ☐ UPS ☐ Courier ☒ Client ☐ US Mail ☐ Other ☐

Shipping container/cooler in good condition? Yes ☒ No ☐ Not Present ☐

Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒

Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒

Container/Temp Blank temperature in compliance? (4°C±2)* Yes ☒ No ☐

Cooler #1 4.7° Cooler #2 ☐ Cooler #3 ☐ Cooler #4 ☐ Cooler #5 ☐ Cooler #6 ☐

Chain of custody present? Yes ☒ No ☐

Chain of custody signed when relinquished and received? Yes ☒ No ☐

Chain of custody agrees with sample labels? Yes ☒ No ☐

Samples in proper container/bottle? Yes ☒ No ☐

Sample containers intact? Yes ☒ No ☐

Sufficient sample volume for indicated test? Yes ☒ No ☐

All samples received within holding time? Yes ☒ No ☐

Was TAT marked on the COC? Yes ☐ No ☒

Proceed with Standard TAT as per project history? Yes ☒ No ☐ Not Applicable ☐

Water - VOA vials have zero headspace? No VOA vials submitted ☐ Yes ☒ No ☐

Water - pH acceptable upon receipt? Yes ☒ No ☐ Not Applicable ☐

Adjusted? ☐ Checked by N.D.

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

CLIENT: Environmental Strategies Corporation, LLC
Project: National Smelting & Refining
Lab Order: 0402A27

CASE NARRATIVE

All samples were received and analyzed within the EPA recommended holding times.

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives except as indicated in the case narrative.

Metals Analysis by Method 6010B:

Matrix spike recoveries for Sb, Cr, Co, and Zn on sample 0402A27-006A were outside control limits biased low. LCS recovery was within control limits indicating possible matrix interference.

Matrix spike recoveries for Pb and Mn on sample 0402A27-006A were outside control limits due to insignificant spike amount as compared to sample concentration.

RPD value for Mn on sample 0402A27-006A was outside advisory control limits due to suspected non-homogeneous sample matrix.

Analytical Environmental Services, Inc.

Date: 01-Mar-04

CLIENT: Environmental Strategies Corporation, LLC
Lab Order: 0402A27
Project: National Smelting & Refining
Lab ID: 0402A27-001

Client Sample ID: MW-3
Collection Date: 2/24/2004 11:20:00 AM
Matrix: GROUNDWATER

Analyses	Result	Rpt. Limit	Qual	Units	DF	Date Analyzed
METALS, TOTAL		SW6010B		Analyst: CDW		
Antimony	BRL	0.0200		mg/L	1	2/25/2004 11:47:00 PM
Arsenic	BRL	0.0500		mg/L	1	2/25/2004 11:47:00 PM
Cadmium	BRL	0.0050		mg/L	1	2/25/2004 11:47:00 PM
Chromium	BRL	0.0100		mg/L	1	2/25/2004 11:47:00 PM
Cobalt	BRL	0.0200		mg/L	1	2/25/2004 11:47:00 PM
Copper	BRL	0.0100		mg/L	1	2/25/2004 11:47:00 PM
Lead	BRL	0.0100		mg/L	1	2/25/2004 11:47:00 PM
Manganese	0.0784	0.0050		mg/L	1	2/25/2004 11:47:00 PM
Nickel	BRL	0.0200		mg/L	1	2/25/2004 11:47:00 PM
Silver	BRL	0.0100		mg/L	1	2/25/2004 11:47:00 PM
Thallium	BRL	0.0200		mg/L	1	2/25/2004 11:47:00 PM
Zinc	0.255	0.0200		mg/L	1	2/25/2004 11:47:00 PM
MERCURY, TOTAL		SW7470A		Analyst: CDW		
Mercury	BRL	0.00020		mg/L	1	2/27/2004 10:25:00 AM
POLYAROMATIC HYDROCARBONS		SW8270C		Analyst: YH		
Naphthalene	BRL	10		µg/L	1	2/25/2004 5:59:00 PM
Acenaphthylene	BRL	10		µg/L	1	2/25/2004 5:59:00 PM
1-Methylnaphthalene	BRL	10		µg/L	1	2/25/2004 5:59:00 PM
2-Methylnaphthalene	BRL	10		µg/L	1	2/25/2004 5:59:00 PM
Acenaphthene	BRL	10		µg/L	1	2/25/2004 5:59:00 PM
Fluorene	BRL	10		µg/L	1	2/25/2004 5:59:00 PM
Phenanthrene	BRL	10		µg/L	1	2/25/2004 5:59:00 PM
Anthracene	BRL	10		µg/L	1	2/25/2004 5:59:00 PM
Fluoranthene	BRL	10		µg/L	1	2/25/2004 5:59:00 PM
Pyrene	BRL	10		µg/L	1	2/25/2004 5:59:00 PM
Benz(a)anthracene	BRL	10		µg/L	1	2/25/2004 5:59:00 PM
Chrysene	BRL	10		µg/L	1	2/25/2004 5:59:00 PM
Benzo(b)fluoranthene	BRL	10		µg/L	1	2/25/2004 5:59:00 PM
Benzo(k)fluoranthene	BRL	10		µg/L	1	2/25/2004 5:59:00 PM
Benzo(a)pyrene	BRL	10		µg/L	1	2/25/2004 5:59:00 PM
Dibenz(a,h)anthracene	BRL	10		µg/L	1	2/25/2004 5:59:00 PM
Benzo(g,h,i)perylene	BRL	10		µg/L	1	2/25/2004 5:59:00 PM
Indeno(1,2,3-cd)pyrene	BRL	10		µg/L	1	2/25/2004 5:59:00 PM
Surr: Nitrobenzene-d5	66.3	32.3-136		%REC	1	2/25/2004 5:59:00 PM
Surr: 2-Fluorobiphenyl	76.2	37-135		%REC	1	2/25/2004 5:59:00 PM
Surr: 4-Terphenyl-d14	84.8	21.9-145		%REC	1	2/25/2004 5:59:00 PM
TCL VOLATILE ORGANICS		SW8260B		Analyst: TMP		
1,1,1-Trichloroethane	BRL	5.0		µg/L	1	2/26/2004 1:26:00 PM
1,1,2,2-Tetrachloroethane	BRL	5.0		µg/L	1	2/26/2004 1:26:00 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- BRL Below Reporting Limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- Rpt Limit Reporting Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P NELAC analyte certification pending
- S Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: 01-Mar-04

CLIENT: Environmental Strategies Corporation, LLC
Lab Order: 0402A27
Project: National Smelting & Refining
Lab ID: 0402A27-001

Client Sample ID: MW-3
Collection Date: 2/24/2004 11:20:00 AM
Matrix: GROUNDWATER

Analyses	Result	Rpt. Limit	Qual	Units	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B				Analyst: TMP
1,1,2-Trichloroethane	BRL	5.0		µg/L	1	2/26/2004 1:26:00 PM
1,1-Dichloroethane	BRL	5.0		µg/L	1	2/26/2004 1:26:00 PM
1,1-Dichloroethene	BRL	5.0		µg/L	1	2/26/2004 1:26:00 PM
1,2,4-Trichlorobenzene	BRL	5.0		µg/L	1	2/26/2004 1:26:00 PM
1,2-Dibromo-3-chloropropane	BRL	5.0		µg/L	1	2/26/2004 1:26:00 PM
1,2-Dibromoethane	BRL	5.0		µg/L	1	2/26/2004 1:26:00 PM
1,2-Dichlorobenzene	BRL	5.0		µg/L	1	2/26/2004 1:26:00 PM
1,2-Dichloroethane	BRL	5.0		µg/L	1	2/26/2004 1:26:00 PM
1,2-Dichloropropane	BRL	5.0		µg/L	1	2/26/2004 1:26:00 PM
1,3-Dichlorobenzene	BRL	5.0		µg/L	1	2/26/2004 1:26:00 PM
1,4-Dichlorobenzene	BRL	5.0		µg/L	1	2/26/2004 1:26:00 PM
2-Butanone	BRL	10		µg/L	1	2/26/2004 1:26:00 PM
2-Hexanone	BRL	10		µg/L	1	2/26/2004 1:26:00 PM
4-Methyl-2-pentanone	BRL	10		µg/L	1	2/26/2004 1:26:00 PM
Acetone	BRL	20		µg/L	1	2/26/2004 1:26:00 PM
Benzene	BRL	5.0		µg/L	1	2/26/2004 1:26:00 PM
Bromodichloromethane	BRL	5.0		µg/L	1	2/26/2004 1:26:00 PM
Bromoform	BRL	5.0		µg/L	1	2/26/2004 1:26:00 PM
Bromomethane	BRL	5.0		µg/L	1	2/26/2004 1:26:00 PM
Carbon disulfide	BRL	5.0		µg/L	1	2/26/2004 1:26:00 PM
Carbon tetrachloride	BRL	5.0		µg/L	1	2/26/2004 1:26:00 PM
Chlorobenzene	BRL	5.0		µg/L	1	2/26/2004 1:26:00 PM
Chloroethane	BRL	10		µg/L	1	2/26/2004 1:26:00 PM
Chloroform	BRL	5.0		µg/L	1	2/26/2004 1:26:00 PM
Chloromethane	BRL	10		µg/L	1	2/26/2004 1:26:00 PM
cis-1,2-Dichloroethene	BRL	5.0		µg/L	1	2/26/2004 1:26:00 PM
cis-1,3-Dichloropropene	BRL	5.0		µg/L	1	2/26/2004 1:26:00 PM
Cyclohexane	BRL	5.0		µg/L	1	2/26/2004 1:26:00 PM
Dibromochloromethane	BRL	5.0		µg/L	1	2/26/2004 1:26:00 PM
Dichlorodifluoromethane	BRL	10		µg/L	1	2/26/2004 1:26:00 PM
Ethylbenzene	BRL	5.0		µg/L	1	2/26/2004 1:26:00 PM
Freon-113	BRL	10		µg/L	1	2/26/2004 1:26:00 PM
Isopropylbenzene	BRL	5.0		µg/L	1	2/26/2004 1:26:00 PM
m,p-Xylene	BRL	10		µg/L	1	2/26/2004 1:26:00 PM
Methyl acetate	BRL	5.0		µg/L	1	2/26/2004 1:26:00 PM
Methyl tert-butyl ether	BRL	5.0		µg/L	1	2/26/2004 1:26:00 PM
Methylcyclohexane	BRL	5.0		µg/L	1	2/26/2004 1:26:00 PM
Methylene chloride	BRL	5.0		µg/L	1	2/26/2004 1:26:00 PM
o-Xylene	BRL	5.0		µg/L	1	2/26/2004 1:26:00 PM
Styrene	BRL	5.0		µg/L	1	2/26/2004 1:26:00 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	N	Analyte not NELAC certified	P	NELAC analyte certification pending
	Rpt Limit	Reporting Limit	S	Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: 01-Mar-04

CLIENT: Environmental Strategies Corporation, LLC
Lab Order: 0402A27
Project: National Smelting & Refining
Lab ID: 0402A27-001

Client Sample ID: MW-3
Collection Date: 2/24/2004 11:20:00 AM
Matrix: GROUNDWATER

Analyses	Result	Rpt. Limit	Qual	Units	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B		Analyst: TMP		
Tetrachloroethene	BRL	5.0		µg/L	1	2/26/2004 1:26:00 PM
Toluene	BRL	5.0		µg/L	1	2/26/2004 1:26:00 PM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	1	2/26/2004 1:26:00 PM
trans-1,3-Dichloropropene	BRL	5.0		µg/L	1	2/26/2004 1:26:00 PM
Trichloroethene	BRL	5.0		µg/L	1	2/26/2004 1:26:00 PM
Trichlorofluoromethane	BRL	5.0		µg/L	1	2/26/2004 1:26:00 PM
Vinyl chloride	BRL	2.0		µg/L	1	2/26/2004 1:26:00 PM
Surr: 4-Bromofluorobenzene	96.2	63.1-121		%REC	1	2/26/2004 1:26:00 PM
Surr: Dibromofluoromethane	105	69.5-126		%REC	1	2/26/2004 1:26:00 PM
Surr: Toluene-d8	104	74.2-120		%REC	1	2/26/2004 1:26:00 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	N	Analyte not NELAC certified	P	NELAC analyte certification pending
	Rpt Limit	Reporting Limit	S	Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: 01-Mar-04

CLIENT: Environmental Strategies Corporation, LLC
Lab Order: 0402A27
Project: National Smelting & Refining
Lab ID: 0402A27-002

Client Sample ID: MW-2
Collection Date: 2/24/2004 12:22:00 PM

Matrix: GROUNDWATER

Analyses	Result	Rpt. Limit	Qual	Units	DF	Date Analyzed
METALS, TOTAL		SW6010B				Analyst: CDW
Antimony	BRL	0.0200		mg/L	1	2/25/2004 11:52:00 PM
Arsenic	BRL	0.0500		mg/L	1	2/25/2004 11:52:00 PM
Cadmium	0.0190	0.0050		mg/L	1	2/25/2004 11:52:00 PM
Chromium	BRL	0.0100		mg/L	1	2/25/2004 11:52:00 PM
Cobalt	0.0296	0.0200		mg/L	1	2/25/2004 11:52:00 PM
Copper	0.0126	0.0100		mg/L	1	2/25/2004 11:52:00 PM
Lead	BRL	0.0100		mg/L	1	2/25/2004 11:52:00 PM
Manganese	1.83	0.0050		mg/L	1	2/25/2004 11:52:00 PM
Nickel	0.0241	0.0200		mg/L	1	2/25/2004 11:52:00 PM
Silver	BRL	0.0100		mg/L	1	2/25/2004 11:52:00 PM
Thallium	BRL	0.0200		mg/L	1	2/25/2004 11:52:00 PM
Zinc	0.550	0.0200		mg/L	1	2/25/2004 11:52:00 PM
MERCURY, TOTAL		SW7470A				Analyst: CDW
Mercury	BRL	0.00020		mg/L	1	2/27/2004 10:25:00 AM
POLYAROMATIC HYDROCARBONS		SW8270C				Analyst: YH
Naphthalene	BRL	10		µg/L	1	2/25/2004 7:50:00 PM
Acenaphthylene	BRL	10		µg/L	1	2/25/2004 7:50:00 PM
1-Methylnaphthalene	BRL	10		µg/L	1	2/25/2004 7:50:00 PM
2-Methylnaphthalene	BRL	10		µg/L	1	2/25/2004 7:50:00 PM
Acenaphthene	BRL	10		µg/L	1	2/25/2004 7:50:00 PM
Fluorene	BRL	10		µg/L	1	2/25/2004 7:50:00 PM
Phenanthrene	BRL	10		µg/L	1	2/25/2004 7:50:00 PM
Anthracene	BRL	10		µg/L	1	2/25/2004 7:50:00 PM
Fluoranthene	BRL	10		µg/L	1	2/25/2004 7:50:00 PM
Pyrene	BRL	10		µg/L	1	2/25/2004 7:50:00 PM
Benz(a)anthracene	BRL	10		µg/L	1	2/25/2004 7:50:00 PM
Chrysene	BRL	10		µg/L	1	2/25/2004 7:50:00 PM
Benzo(b)fluoranthene	BRL	10		µg/L	1	2/25/2004 7:50:00 PM
Benzo(k)fluoranthene	BRL	10		µg/L	1	2/25/2004 7:50:00 PM
Benzo(a)pyrene	BRL	10		µg/L	1	2/25/2004 7:50:00 PM
Dibenz(a,h)anthracene	BRL	10		µg/L	1	2/25/2004 7:50:00 PM
Benzo(g,h,i)perylene	BRL	10		µg/L	1	2/25/2004 7:50:00 PM
Indeno(1,2,3-cd)pyrene	BRL	10		µg/L	1	2/25/2004 7:50:00 PM
Surr: Nitrobenzene-d5	73.3	32.3-136		%REC	1	2/25/2004 7:50:00 PM
Surr: 2-Fluorobiphenyl	80.5	37-135		%REC	1	2/25/2004 7:50:00 PM
Surr: 4-Terphenyl-d14	86.9	21.9-145		%REC	1	2/25/2004 7:50:00 PM
TCL VOLATILE ORGANICS		SW8260B				Analyst: TMP
1,1,1-Trichloroethane	BRL	5.0		µg/L	1	2/26/2004 1:51:00 PM
1,1,2,2-Tetrachloroethane	BRL	5.0		µg/L	1	2/26/2004 1:51:00 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	N	Analyte not NELAC certified	P	NELAC analyte certification pending
	Rpt Limit	Reporting Limit	S	Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: 01-Mar-04

CLIENT: Environmental Strategies Corporation, LLC
Lab Order: 0402A27
Project: National Smelting & Refining
Lab ID: 0402A27-002

Client Sample ID: MW-2
Collection Date: 2/24/2004 12:22:00 PM
Matrix: GROUNDWATER

Analyses	Result	Rpt. Limit	Qual	Units	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B		Analyst: TMP		
1,1,2-Trichloroethane	BRL	5.0		µg/L	1	2/26/2004 1:51:00 PM
1,1-Dichloroethane	BRL	5.0		µg/L	1	2/26/2004 1:51:00 PM
1,1-Dichloroethene	BRL	5.0		µg/L	1	2/26/2004 1:51:00 PM
1,2,4-Trichlorobenzene	BRL	5.0		µg/L	1	2/26/2004 1:51:00 PM
1,2-Dibromo-3-chloropropane	BRL	5.0		µg/L	1	2/26/2004 1:51:00 PM
1,2-Dibromoethane	BRL	5.0		µg/L	1	2/26/2004 1:51:00 PM
1,2-Dichlorobenzene	BRL	5.0		µg/L	1	2/26/2004 1:51:00 PM
1,2-Dichloroethane	BRL	5.0		µg/L	1	2/26/2004 1:51:00 PM
1,2-Dichloropropane	BRL	5.0		µg/L	1	2/26/2004 1:51:00 PM
1,3-Dichlorobenzene	BRL	5.0		µg/L	1	2/26/2004 1:51:00 PM
1,4-Dichlorobenzene	BRL	5.0		µg/L	1	2/26/2004 1:51:00 PM
2-Butanone	BRL	10		µg/L	1	2/26/2004 1:51:00 PM
2-Hexanone	BRL	10		µg/L	1	2/26/2004 1:51:00 PM
4-Methyl-2-pentanone	BRL	10		µg/L	1	2/26/2004 1:51:00 PM
Acetone	BRL	20		µg/L	1	2/26/2004 1:51:00 PM
Benzene	BRL	5.0		µg/L	1	2/26/2004 1:51:00 PM
Bromodichloromethane	BRL	5.0		µg/L	1	2/26/2004 1:51:00 PM
Bromoform	BRL	5.0		µg/L	1	2/26/2004 1:51:00 PM
Bromomethane	BRL	5.0		µg/L	1	2/26/2004 1:51:00 PM
Carbon disulfide	BRL	5.0		µg/L	1	2/26/2004 1:51:00 PM
Carbon tetrachloride	BRL	5.0		µg/L	1	2/26/2004 1:51:00 PM
Chlorobenzene	BRL	5.0		µg/L	1	2/26/2004 1:51:00 PM
Chloroethane	BRL	10		µg/L	1	2/26/2004 1:51:00 PM
Chloroform	BRL	5.0		µg/L	1	2/26/2004 1:51:00 PM
Chloromethane	BRL	10		µg/L	1	2/26/2004 1:51:00 PM
cis-1,2-Dichloroethene	BRL	5.0		µg/L	1	2/26/2004 1:51:00 PM
cis-1,3-Dichloropropene	BRL	5.0		µg/L	1	2/26/2004 1:51:00 PM
Cyclohexane	BRL	5.0		µg/L	1	2/26/2004 1:51:00 PM
Dibromochloromethane	BRL	5.0		µg/L	1	2/26/2004 1:51:00 PM
Dichlorodifluoromethane	BRL	10		µg/L	1	2/26/2004 1:51:00 PM
Ethylbenzene	BRL	5.0		µg/L	1	2/26/2004 1:51:00 PM
Freon-113	BRL	10		µg/L	1	2/26/2004 1:51:00 PM
Isopropylbenzene	BRL	5.0		µg/L	1	2/26/2004 1:51:00 PM
m,p-Xylene	BRL	10		µg/L	1	2/26/2004 1:51:00 PM
Methyl acetate	BRL	5.0		µg/L	1	2/26/2004 1:51:00 PM
Methyl tert-butyl ether	BRL	5.0		µg/L	1	2/26/2004 1:51:00 PM
Methylcyclohexane	BRL	5.0		µg/L	1	2/26/2004 1:51:00 PM
Methylene chloride	BRL	5.0		µg/L	1	2/26/2004 1:51:00 PM
o-Xylene	BRL	5.0		µg/L	1	2/26/2004 1:51:00 PM
Styrene	BRL	5.0		µg/L	1	2/26/2004 1:51:00 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	N	Analyte not NELAC certified	P	NELAC analyte certification pending
	Rpt Limit	Reporting Limit	S	Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: 01-Mar-04

CLIENT: Environmental Strategies Corporation, LLC

Client Sample ID: MW-2

Lab Order: 0402A27

Collection Date: 2/24/2004 12:22:00 PM

Project: National Smelting & Refining

Lab ID: 0402A27-002

Matrix: GROUNDWATER

Analyses	Result	Rpt. Limit	Qual	Units	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B				Analyst: TMP
Tetrachloroethene	BRL	5.0		µg/L	1	2/26/2004 1:51:00 PM
Toluene	BRL	5.0		µg/L	1	2/26/2004 1:51:00 PM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	1	2/26/2004 1:51:00 PM
trans-1,3-Dichloropropene	BRL	5.0		µg/L	1	2/26/2004 1:51:00 PM
Trichloroethene	BRL	5.0		µg/L	1	2/26/2004 1:51:00 PM
Trichlorofluoromethane	BRL	5.0		µg/L	1	2/26/2004 1:51:00 PM
Vinyl chloride	BRL	2.0		µg/L	1	2/26/2004 1:51:00 PM
Surr: 4-Bromofluorobenzene	96.6	63.1-121		%REC	1	2/26/2004 1:51:00 PM
Surr: Dibromofluoromethane	102	69.5-126		%REC	1	2/26/2004 1:51:00 PM
Surr: Toluene-d8	103	74.2-120		%REC	1	2/26/2004 1:51:00 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	N	Analyte not NELAC certified	P	NELAC analyte certification pending
	Rpt Limit	Reporting Limit	S	Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: 01-Mar-04

CLIENT: Environmental Strategies Corporation, LLC
Lab Order: 0402A27
Project: National Smelting & Refining
Lab ID: 0402A27-003

Client Sample ID: MW-1
Collection Date: 2/24/2004 2:15:00 PM
Matrix: GROUNDWATER

Analyses	Result	Rpt. Limit	Qual	Units	DF	Date Analyzed
METALS, TOTAL		SW6010B		Analyst: CDW		
Antimony	BRL	0.0200		mg/L	1	2/25/2004 11:56:00 PM
Arsenic	BRL	0.0500		mg/L	1	2/25/2004 11:56:00 PM
Cadmium	BRL	0.0050		mg/L	1	2/25/2004 11:56:00 PM
Chromium	BRL	0.0100		mg/L	1	2/25/2004 11:56:00 PM
Cobalt	0.0268	0.0200		mg/L	1	2/25/2004 11:56:00 PM
Copper	BRL	0.0100		mg/L	1	2/25/2004 11:56:00 PM
Lead	0.166	0.0100		mg/L	1	2/25/2004 11:56:00 PM
Manganese	4.88	0.0050		mg/L	1	2/25/2004 11:56:00 PM
Nickel	BRL	0.0200		mg/L	1	2/25/2004 11:56:00 PM
Silver	BRL	0.0100		mg/L	1	2/25/2004 11:56:00 PM
Thallium	BRL	0.0200		mg/L	1	2/25/2004 11:56:00 PM
Zinc	0.0246	0.0200		mg/L	1	2/25/2004 11:56:00 PM
MERCURY, TOTAL		SW7470A		Analyst: CDW		
Mercury	BRL	0.00020		mg/L	1	2/27/2004 10:25:00 AM
POLYAROMATIC HYDROCARBONS		SW8270C		Analyst: YH		
Naphthalene	BRL	10		µg/L	1	2/25/2004 8:27:00 PM
Acenaphthylene	BRL	10		µg/L	1	2/25/2004 8:27:00 PM
1-Methylnaphthalene	BRL	10		µg/L	1	2/25/2004 8:27:00 PM
2-Methylnaphthalene	BRL	10		µg/L	1	2/25/2004 8:27:00 PM
Acenaphthene	BRL	10		µg/L	1	2/25/2004 8:27:00 PM
Fluorene	BRL	10		µg/L	1	2/25/2004 8:27:00 PM
Phenanthrene	BRL	10		µg/L	1	2/25/2004 8:27:00 PM
Anthracene	BRL	10		µg/L	1	2/25/2004 8:27:00 PM
Fluoranthene	BRL	10		µg/L	1	2/25/2004 8:27:00 PM
Pyrene	BRL	10		µg/L	1	2/25/2004 8:27:00 PM
Benz(a)anthracene	BRL	10		µg/L	1	2/25/2004 8:27:00 PM
Chrysene	BRL	10		µg/L	1	2/25/2004 8:27:00 PM
Benzo(b)fluoranthene	BRL	10		µg/L	1	2/25/2004 8:27:00 PM
Benzo(k)fluoranthene	BRL	10		µg/L	1	2/25/2004 8:27:00 PM
Benzo(a)pyrene	BRL	10		µg/L	1	2/25/2004 8:27:00 PM
Dibenz(a,h)anthracene	BRL	10		µg/L	1	2/25/2004 8:27:00 PM
Benzo(g,h,i)perylene	BRL	10		µg/L	1	2/25/2004 8:27:00 PM
Indeno(1,2,3-cd)pyrene	BRL	10		µg/L	1	2/25/2004 8:27:00 PM
Surr: Nitrobenzene-d5	71.2	32.3-136		%REC	1	2/25/2004 8:27:00 PM
Surr: 2-Fluorobiphenyl	77.8	37-135		%REC	1	2/25/2004 8:27:00 PM
Surr: 4-Terphenyl-d14	85.6	21.9-145		%REC	1	2/25/2004 8:27:00 PM
TCL VOLATILE ORGANICS		SW8260B		Analyst: TMP		
1,1,1-Trichloroethane	BRL	5.0		µg/L	1	2/26/2004 2:16:00 PM
1,1,2,2-Tetrachloroethane	BRL	5.0		µg/L	1	2/26/2004 2:16:00 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	N	Analyte not NELAC certified	P	NELAC analyte certification pending
	Rpt Limit	Reporting Limit	S	Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: 01-Mar-04

CLIENT: Environmental Strategies Corporation, LLC

Client Sample ID: MW-1

Lab Order: 0402A27

Collection Date: 2/24/2004 2:15:00 PM

Project: National Smelting & Refining

Lab ID: 0402A27-003

Matrix: GROUNDWATER

Analyses	Result	Rpt. Limit	Qual	Units	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B				Analyst: TMP
1,1,2-Trichloroethane	BRL	5.0		µg/L	1	2/26/2004 2:16:00 PM
1,1-Dichloroethane	BRL	5.0		µg/L	1	2/26/2004 2:16:00 PM
1,1-Dichloroethene	BRL	5.0		µg/L	1	2/26/2004 2:16:00 PM
1,2,4-Trichlorobenzene	BRL	5.0		µg/L	1	2/26/2004 2:16:00 PM
1,2-Dibromo-3-chloropropane	BRL	5.0		µg/L	1	2/26/2004 2:16:00 PM
1,2-Dibromoethane	BRL	5.0		µg/L	1	2/26/2004 2:16:00 PM
1,2-Dichlorobenzene	BRL	5.0		µg/L	1	2/26/2004 2:16:00 PM
1,2-Dichloroethane	BRL	5.0		µg/L	1	2/26/2004 2:16:00 PM
1,2-Dichloropropane	BRL	5.0		µg/L	1	2/26/2004 2:16:00 PM
1,3-Dichlorobenzene	BRL	5.0		µg/L	1	2/26/2004 2:16:00 PM
1,4-Dichlorobenzene	BRL	5.0		µg/L	1	2/26/2004 2:16:00 PM
2-Butanone	BRL	10		µg/L	1	2/26/2004 2:16:00 PM
2-Hexanone	BRL	10		µg/L	1	2/26/2004 2:16:00 PM
4-Methyl-2-pentanone	BRL	10		µg/L	1	2/26/2004 2:16:00 PM
Acetone	BRL	20		µg/L	1	2/26/2004 2:16:00 PM
Benzene	BRL	5.0		µg/L	1	2/26/2004 2:16:00 PM
Bromodichloromethane	BRL	5.0		µg/L	1	2/26/2004 2:16:00 PM
Bromoform	BRL	5.0		µg/L	1	2/26/2004 2:16:00 PM
Bromomethane	BRL	5.0		µg/L	1	2/26/2004 2:16:00 PM
Carbon disulfide	BRL	5.0		µg/L	1	2/26/2004 2:16:00 PM
Carbon tetrachloride	BRL	5.0		µg/L	1	2/26/2004 2:16:00 PM
Chlorobenzene	BRL	5.0		µg/L	1	2/26/2004 2:16:00 PM
Chloroethane	BRL	10		µg/L	1	2/26/2004 2:16:00 PM
Chloroform	BRL	5.0		µg/L	1	2/26/2004 2:16:00 PM
Chloromethane	BRL	10		µg/L	1	2/26/2004 2:16:00 PM
cis-1,2-Dichloroethene	BRL	5.0		µg/L	1	2/26/2004 2:16:00 PM
cis-1,3-Dichloropropene	BRL	5.0		µg/L	1	2/26/2004 2:16:00 PM
Cyclohexane	BRL	5.0		µg/L	1	2/26/2004 2:16:00 PM
Dibromochloromethane	BRL	5.0		µg/L	1	2/26/2004 2:16:00 PM
Dichlorodifluoromethane	BRL	10		µg/L	1	2/26/2004 2:16:00 PM
Ethylbenzene	BRL	5.0		µg/L	1	2/26/2004 2:16:00 PM
Freon-113	BRL	10		µg/L	1	2/26/2004 2:16:00 PM
Isopropylbenzene	BRL	5.0		µg/L	1	2/26/2004 2:16:00 PM
m,p-Xylene	BRL	10		µg/L	1	2/26/2004 2:16:00 PM
Methyl acetate	BRL	5.0		µg/L	1	2/26/2004 2:16:00 PM
Methyl tert-butyl ether	BRL	5.0		µg/L	1	2/26/2004 2:16:00 PM
Methylcyclohexane	BRL	5.0		µg/L	1	2/26/2004 2:16:00 PM
Methylene chloride	BRL	5.0		µg/L	1	2/26/2004 2:16:00 PM
o-Xylene	BRL	5.0		µg/L	1	2/26/2004 2:16:00 PM
Styrene	BRL	5.0		µg/L	1	2/26/2004 2:16:00 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
 BRL Below Reporting Limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 Rpt Limit Reporting Limit

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P NELAC analyte certification pending
 S Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: 01-Mar-04

CLIENT: Environmental Strategies Corporation, LLC
Lab Order: 0402A27
Project: National Smelting & Refining
Lab ID: 0402A27-003

Client Sample ID: MW-1
Collection Date: 2/24/2004 2:15:00 PM

Matrix: GROUNDWATER

Analyses	Result	Rpt. Limit	Qual	Units	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B				Analyst: TMP
Tetrachloroethene	BRL	5.0		µg/L	1	2/26/2004 2:16:00 PM
Toluene	BRL	5.0		µg/L	1	2/26/2004 2:16:00 PM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	1	2/26/2004 2:16:00 PM
trans-1,3-Dichloropropene	BRL	5.0		µg/L	1	2/26/2004 2:16:00 PM
Trichloroethene	BRL	5.0		µg/L	1	2/26/2004 2:16:00 PM
Trichlorofluoromethane	BRL	5.0		µg/L	1	2/26/2004 2:16:00 PM
Vinyl chloride	BRL	2.0		µg/L	1	2/26/2004 2:16:00 PM
Surr: 4-Bromofluorobenzene	98.3	63.1-121		%REC	1	2/26/2004 2:16:00 PM
Surr: Dibromofluoromethane	102	69.5-126		%REC	1	2/26/2004 2:16:00 PM
Surr: Toluene-d8	104	74.2-120		%REC	1	2/26/2004 2:16:00 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	N	Analyte not NELAC certified	P	NELAC analyte certification pending
	Rpt Limit	Reporting Limit	S	Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: 01-Mar-04

CLIENT: Environmental Strategies Corporation, LLC
Lab Order: 0402A27
Project: National Smelting & Refining
Lab ID: 0402A27-004

Client Sample ID: MW-D
Collection Date: 2/24/2004 1:15:00 PM
Matrix: GROUNDWATER

Analyses	Result	Rpt. Limit	Qual	Units	DF	Date Analyzed
METALS, TOTAL		SW6010B		Analyst: CDW		
Antimony	BRL	0.0200		mg/L	1	2/26/2004 12:01:00 AM
Arsenic	BRL	0.0500		mg/L	1	2/26/2004 12:01:00 AM
Cadmium	BRL	0.0050		mg/L	1	2/26/2004 12:01:00 AM
Chromium	BRL	0.0100		mg/L	1	2/26/2004 12:01:00 AM
Cobalt	0.0269	0.0200		mg/L	1	2/26/2004 12:01:00 AM
Copper	BRL	0.0100		mg/L	1	2/26/2004 12:01:00 AM
Lead	0.156	0.0100		mg/L	1	2/26/2004 12:01:00 AM
Manganese	4.85	0.0050		mg/L	1	2/26/2004 12:01:00 AM
Nickel	BRL	0.0200		mg/L	1	2/26/2004 12:01:00 AM
Silver	BRL	0.0100		mg/L	1	2/26/2004 12:01:00 AM
Thallium	BRL	0.0200		mg/L	1	2/26/2004 12:01:00 AM
Zinc	0.0236	0.0200		mg/L	1	2/26/2004 12:01:00 AM
MERCURY, TOTAL		SW7470A		Analyst: CDW		
Mercury	BRL	0.00020		mg/L	1	2/27/2004 10:25:00 AM
POLYAROMATIC HYDROCARBONS		SW8270C		Analyst: YH		
Naphthalene	BRL	10		µg/L	1	2/25/2004 9:04:00 PM
Acenaphthylene	BRL	10		µg/L	1	2/25/2004 9:04:00 PM
1-Methylnaphthalene	BRL	10		µg/L	1	2/25/2004 9:04:00 PM
2-Methylnaphthalene	BRL	10		µg/L	1	2/25/2004 9:04:00 PM
Acenaphthene	BRL	10		µg/L	1	2/25/2004 9:04:00 PM
Fluorene	BRL	10		µg/L	1	2/25/2004 9:04:00 PM
Phenanthrene	BRL	10		µg/L	1	2/25/2004 9:04:00 PM
Anthracene	BRL	10		µg/L	1	2/25/2004 9:04:00 PM
Fluoranthene	BRL	10		µg/L	1	2/25/2004 9:04:00 PM
Pyrene	BRL	10		µg/L	1	2/25/2004 9:04:00 PM
Benz(a)anthracene	BRL	10		µg/L	1	2/25/2004 9:04:00 PM
Chrysene	BRL	10		µg/L	1	2/25/2004 9:04:00 PM
Benzo(b)fluoranthene	BRL	10		µg/L	1	2/25/2004 9:04:00 PM
Benzo(k)fluoranthene	BRL	10		µg/L	1	2/25/2004 9:04:00 PM
Benzo(a)pyrene	BRL	10		µg/L	1	2/25/2004 9:04:00 PM
Dibenz(a,h)anthracene	BRL	10		µg/L	1	2/25/2004 9:04:00 PM
Benzo(g,h,i)perylene	BRL	10		µg/L	1	2/25/2004 9:04:00 PM
Indeno(1,2,3-cd)pyrene	BRL	10		µg/L	1	2/25/2004 9:04:00 PM
Surr: Nitrobenzene-d5	71.7	32.3-136		%REC	1	2/25/2004 9:04:00 PM
Surr: 2-Fluorobiphenyl	75.4	37-135		%REC	1	2/25/2004 9:04:00 PM
Surr: 4-Terphenyl-d14	80.4	21.9-145		%REC	1	2/25/2004 9:04:00 PM
TCL VOLATILE ORGANICS		SW8260B		Analyst: TMP		
1,1,1-Trichloroethane	BRL	5.0		µg/L	1	2/26/2004 2:41:00 PM
1,1,2,2-Tetrachloroethane	BRL	5.0		µg/L	1	2/26/2004 2:41:00 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- BRL Below Reporting Limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- Rpt Limit Reporting Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P NELAC analyte certification pending
- S Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: 01-Mar-04

CLIENT: Environmental Strategies Corporation, LLC
Lab Order: 0402A27
Project: National Smelting & Refining
Lab ID: 0402A27-004

Client Sample ID: MW-D
Collection Date: 2/24/2004 1:15:00 PM
Matrix: GROUNDWATER

Analyses	Result	Rpt. Limit	Qual	Units	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B		Analyst: TMP		
1,1,2-Trichloroethane	BRL	5.0		µg/L	1	2/26/2004 2:41:00 PM
1,1-Dichloroethane	BRL	5.0		µg/L	1	2/26/2004 2:41:00 PM
1,1-Dichloroethene	BRL	5.0		µg/L	1	2/26/2004 2:41:00 PM
1,2,4-Trichlorobenzene	BRL	5.0		µg/L	1	2/26/2004 2:41:00 PM
1,2-Dibromo-3-chloropropane	BRL	5.0		µg/L	1	2/26/2004 2:41:00 PM
1,2-Dibromoethane	BRL	5.0		µg/L	1	2/26/2004 2:41:00 PM
1,2-Dichlorobenzene	BRL	5.0		µg/L	1	2/26/2004 2:41:00 PM
1,2-Dichloroethane	BRL	5.0		µg/L	1	2/26/2004 2:41:00 PM
1,2-Dichloropropane	BRL	5.0		µg/L	1	2/26/2004 2:41:00 PM
1,3-Dichlorobenzene	BRL	5.0		µg/L	1	2/26/2004 2:41:00 PM
1,4-Dichlorobenzene	BRL	5.0		µg/L	1	2/26/2004 2:41:00 PM
2-Butanone	BRL	10		µg/L	1	2/26/2004 2:41:00 PM
2-Hexanone	BRL	10		µg/L	1	2/26/2004 2:41:00 PM
4-Methyl-2-pentanone	BRL	10		µg/L	1	2/26/2004 2:41:00 PM
Acetone	BRL	20		µg/L	1	2/26/2004 2:41:00 PM
Benzene	BRL	5.0		µg/L	1	2/26/2004 2:41:00 PM
Bromodichloromethane	BRL	5.0		µg/L	1	2/26/2004 2:41:00 PM
Bromoform	BRL	5.0		µg/L	1	2/26/2004 2:41:00 PM
Bromomethane	BRL	5.0		µg/L	1	2/26/2004 2:41:00 PM
Carbon disulfide	BRL	5.0		µg/L	1	2/26/2004 2:41:00 PM
Carbon tetrachloride	BRL	5.0		µg/L	1	2/26/2004 2:41:00 PM
Chlorobenzene	BRL	5.0		µg/L	1	2/26/2004 2:41:00 PM
Chloroethane	BRL	10		µg/L	1	2/26/2004 2:41:00 PM
Chloroform	BRL	5.0		µg/L	1	2/26/2004 2:41:00 PM
Chloromethane	BRL	10		µg/L	1	2/26/2004 2:41:00 PM
cis-1,2-Dichloroethene	BRL	5.0		µg/L	1	2/26/2004 2:41:00 PM
cis-1,3-Dichloropropene	BRL	5.0		µg/L	1	2/26/2004 2:41:00 PM
Cyclohexane	BRL	5.0		µg/L	1	2/26/2004 2:41:00 PM
Dibromochloromethane	BRL	5.0		µg/L	1	2/26/2004 2:41:00 PM
Dichlorodifluoromethane	BRL	10		µg/L	1	2/26/2004 2:41:00 PM
Ethylbenzene	BRL	5.0		µg/L	1	2/26/2004 2:41:00 PM
Freon-113	BRL	10		µg/L	1	2/26/2004 2:41:00 PM
Isopropylbenzene	BRL	5.0		µg/L	1	2/26/2004 2:41:00 PM
m,p-Xylene	BRL	10		µg/L	1	2/26/2004 2:41:00 PM
Methyl acetate	BRL	5.0		µg/L	1	2/26/2004 2:41:00 PM
Methyl tert-butyl ether	BRL	5.0		µg/L	1	2/26/2004 2:41:00 PM
Methylcyclohexane	BRL	5.0		µg/L	1	2/26/2004 2:41:00 PM
Methylene chloride	BRL	5.0		µg/L	1	2/26/2004 2:41:00 PM
o-Xylene	BRL	5.0		µg/L	1	2/26/2004 2:41:00 PM
Styrene	BRL	5.0		µg/L	1	2/26/2004 2:41:00 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	N	Analyte not NELAC certified	P	NELAC analyte certification pending
	Rpt Limit	Reporting Limit	S	Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: 01-Mar-04

CLIENT: Environmental Strategies Corporation, LLC

Client Sample ID: MW-D

Lab Order: 0402A27

Collection Date: 2/24/2004 1:15:00 PM

Project: National Smelting & Refining

Lab ID: 0402A27-004

Matrix: GROUNDWATER

Analyses	Result	Rpt. Limit	Qual	Units	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B				Analyst: TMP
Tetrachloroethene	BRL	5.0		µg/L	1	2/26/2004 2:41:00 PM
Toluene	BRL	5.0		µg/L	1	2/26/2004 2:41:00 PM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	1	2/26/2004 2:41:00 PM
trans-1,3-Dichloropropene	BRL	5.0		µg/L	1	2/26/2004 2:41:00 PM
Trichloroethene	BRL	5.0		µg/L	1	2/26/2004 2:41:00 PM
Trichlorofluoromethane	BRL	5.0		µg/L	1	2/26/2004 2:41:00 PM
Vinyl chloride	BRL	2.0		µg/L	1	2/26/2004 2:41:00 PM
Surr: 4-Bromofluorobenzene	97.4	63.1-121		%REC	1	2/26/2004 2:41:00 PM
Surr: Dibromofluoromethane	99.6	69.5-126		%REC	1	2/26/2004 2:41:00 PM
Surr: Toluene-d8	104	74.2-120		%REC	1	2/26/2004 2:41:00 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	N	Analyte not NELAC certified	P	NELAC analyte certification pending
	Rpt Limit	Reporting Limit	S	Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: 01-Mar-04

CLIENT: Environmental Strategies Corporation, LLC
Lab Order: 0402A27
Project: National Smelting & Refining
Lab ID: 0402A27-005

Client Sample ID: TRIP BLANK
Collection Date: 2/24/2004

Matrix: AQUEOUS

Analyses	Result	Rpt. Limit	Qual	Units	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B				Analyst: TMP
1,1,1-Trichloroethane	BRL	5.0		µg/L	1	2/26/2004 12:36:00 PM
1,1,2,2-Tetrachloroethane	BRL	5.0		µg/L	1	2/26/2004 12:36:00 PM
1,1,2-Trichloroethane	BRL	5.0		µg/L	1	2/26/2004 12:36:00 PM
1,1-Dichloroethane	BRL	5.0		µg/L	1	2/26/2004 12:36:00 PM
1,1-Dichloroethene	BRL	5.0		µg/L	1	2/26/2004 12:36:00 PM
1,2,4-Trichlorobenzene	BRL	5.0		µg/L	1	2/26/2004 12:36:00 PM
1,2-Dibromo-3-chloropropane	BRL	5.0		µg/L	1	2/26/2004 12:36:00 PM
1,2-Dibromoethane	BRL	5.0		µg/L	1	2/26/2004 12:36:00 PM
1,2-Dichlorobenzene	BRL	5.0		µg/L	1	2/26/2004 12:36:00 PM
1,2-Dichloroethane	BRL	5.0		µg/L	1	2/26/2004 12:36:00 PM
1,2-Dichloropropane	BRL	5.0		µg/L	1	2/26/2004 12:36:00 PM
1,3-Dichlorobenzene	BRL	5.0		µg/L	1	2/26/2004 12:36:00 PM
1,4-Dichlorobenzene	BRL	5.0		µg/L	1	2/26/2004 12:36:00 PM
2-Butanone	BRL	10		µg/L	1	2/26/2004 12:36:00 PM
2-Hexanone	BRL	10		µg/L	1	2/26/2004 12:36:00 PM
4-Methyl-2-pentanone	BRL	10		µg/L	1	2/26/2004 12:36:00 PM
Acetone	BRL	20		µg/L	1	2/26/2004 12:36:00 PM
Benzene	BRL	5.0		µg/L	1	2/26/2004 12:36:00 PM
Bromodichloromethane	BRL	5.0		µg/L	1	2/26/2004 12:36:00 PM
Bromoform	BRL	5.0		µg/L	1	2/26/2004 12:36:00 PM
Bromomethane	BRL	5.0		µg/L	1	2/26/2004 12:36:00 PM
Carbon disulfide	BRL	5.0		µg/L	1	2/26/2004 12:36:00 PM
Carbon tetrachloride	BRL	5.0		µg/L	1	2/26/2004 12:36:00 PM
Chlorobenzene	BRL	5.0		µg/L	1	2/26/2004 12:36:00 PM
Chloroethane	BRL	10		µg/L	1	2/26/2004 12:36:00 PM
Chloroform	BRL	5.0		µg/L	1	2/26/2004 12:36:00 PM
Chloromethane	BRL	10		µg/L	1	2/26/2004 12:36:00 PM
cis-1,2-Dichloroethene	BRL	5.0		µg/L	1	2/26/2004 12:36:00 PM
cis-1,3-Dichloropropene	BRL	5.0		µg/L	1	2/26/2004 12:36:00 PM
Cyclohexane	BRL	5.0		µg/L	1	2/26/2004 12:36:00 PM
Dibromochloromethane	BRL	5.0		µg/L	1	2/26/2004 12:36:00 PM
Dichlorodifluoromethane	BRL	10		µg/L	1	2/26/2004 12:36:00 PM
Ethylbenzene	BRL	5.0		µg/L	1	2/26/2004 12:36:00 PM
Freon-113	BRL	10		µg/L	1	2/26/2004 12:36:00 PM
Isopropylbenzene	BRL	5.0		µg/L	1	2/26/2004 12:36:00 PM
m,p-Xylene	BRL	10		µg/L	1	2/26/2004 12:36:00 PM
Methyl acetate	BRL	5.0		µg/L	1	2/26/2004 12:36:00 PM
Methyl tert-butyl ether	BRL	5.0		µg/L	1	2/26/2004 12:36:00 PM
Methylcyclohexane	BRL	5.0		µg/L	1	2/26/2004 12:36:00 PM
Methylene chloride	BRL	5.0		µg/L	1	2/26/2004 12:36:00 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	N	Analyte not NELAC certified	P	NELAC analyte certification pending
	Rpt Limit	Reporting Limit	S	Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: 01-Mar-04

CLIENT: Environmental Strategies Corporation, LLC
 Lab Order: 0402A27
 Project: National Smelting & Refining
 Lab ID: 0402A27-005

Client Sample ID: TRIP BLANK
 Collection Date: 2/24/2004

Matrix: AQUEOUS

Analyses	Result	Rpt. Limit	Qual	Units	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B		Analyst: TMP		
o-Xylene	BRL	5.0		µg/L	1	2/26/2004 12:36:00 PM
Styrene	BRL	5.0		µg/L	1	2/26/2004 12:36:00 PM
Tetrachloroethene	BRL	5.0		µg/L	1	2/26/2004 12:36:00 PM
Toluene	BRL	5.0		µg/L	1	2/26/2004 12:36:00 PM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	1	2/26/2004 12:36:00 PM
trans-1,3-Dichloropropene	BRL	5.0		µg/L	1	2/26/2004 12:36:00 PM
Trichloroethene	BRL	5.0		µg/L	1	2/26/2004 12:36:00 PM
Trichlorofluoromethane	BRL	5.0		µg/L	1	2/26/2004 12:36:00 PM
Vinyl chloride	BRL	2.0		µg/L	1	2/26/2004 12:36:00 PM
Surr: 4-Bromofluorobenzene	96.1	63.1-121		%REC	1	2/26/2004 12:36:00 PM
Surr: Dibromofluoromethane	101	69.5-126		%REC	1	2/26/2004 12:36:00 PM
Surr: Toluene-d8	102	74.2-120		%REC	1	2/26/2004 12:36:00 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	N	Analyte not NELAC certified	P	NELAC analyte certification pending
	Rpt Limit	Reporting Limit	S	Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: 01-Mar-04

CLIENT: Environmental Strategies Corporation, LLC
Lab Order: 0402A27
Project: National Smelting & Refining
Lab ID: 0402A27-006

Client Sample ID: 540W
Collection Date: 2/24/2004 2:55:00 PM
Matrix: SOIL

Analyses	Result	Rpt. Limit	Qual	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS		SW8082		Analyst: JMZ		
Aroclor 1016	BRL	33		µg/Kg	1	2/27/2004 1:48:00 PM
Aroclor 1221	BRL	33		µg/Kg	1	2/27/2004 1:48:00 PM
Aroclor 1232	BRL	33		µg/Kg	1	2/27/2004 1:48:00 PM
Aroclor 1242	BRL	33		µg/Kg	1	2/27/2004 1:48:00 PM
Aroclor 1248	BRL	33		µg/Kg	1	2/27/2004 1:48:00 PM
Aroclor 1254	BRL	33		µg/Kg	1	2/27/2004 1:48:00 PM
Aroclor 1260	BRL	33		µg/Kg	1	2/27/2004 1:48:00 PM
Surr: Decachlorobiphenyl	92.9	20.9-163		%REC	1	2/27/2004 1:48:00 PM
Surr: Tetrachloro-m-xylene	88.5	28.6-126		%REC	1	2/27/2004 1:48:00 PM
METALS, TOTAL		SW6010B		Analyst: CDW		
Antimony	12.8	4.54		mg/Kg	1	2/25/2004 8:54:00 PM
Arsenic	5.24	4.54		mg/Kg	1	2/25/2004 8:54:00 PM
Cadmium	2.68	2.27		mg/Kg	1	2/25/2004 8:54:00 PM
Chromium	130	2.27		mg/Kg	1	2/25/2004 8:54:00 PM
Cobalt	40.1	2.27		mg/Kg	1	2/25/2004 8:54:00 PM
Copper	107	2.27		mg/Kg	1	2/25/2004 8:54:00 PM
Lead	621	4.54		mg/Kg	1	2/25/2004 8:54:00 PM
Manganese	1340	4.54		mg/Kg	1	2/25/2004 8:54:00 PM
Nickel	36.6	4.54		mg/Kg	1	2/25/2004 8:54:00 PM
Silver	BRL	2.27		mg/Kg	1	2/25/2004 8:54:00 PM
Thallium	BRL	4.54		mg/Kg	1	2/25/2004 8:54:00 PM
Zinc	167	4.54		mg/Kg	1	2/25/2004 8:54:00 PM
TOTAL MERCURY		SW7471A		Analyst: SSS		
Mercury	BRL	0.0899		mg/Kg	1	2/28/2004
POLYAROMATIC HYDROCARBONS		SW8270C		Analyst: YH		
Naphthalene	BRL	330		µg/Kg	1	2/26/2004 11:01:00 PM
Acenaphthylene	BRL	330		µg/Kg	1	2/26/2004 11:01:00 PM
1-Methylnaphthalene	BRL	330		µg/Kg	1	2/26/2004 11:01:00 PM
2-Methylnaphthalene	BRL	330		µg/Kg	1	2/26/2004 11:01:00 PM
Acenaphthene	BRL	330		µg/Kg	1	2/26/2004 11:01:00 PM
Fluorene	BRL	330		µg/Kg	1	2/26/2004 11:01:00 PM
Phenanthrene	BRL	330		µg/Kg	1	2/26/2004 11:01:00 PM
Anthracene	BRL	330		µg/Kg	1	2/26/2004 11:01:00 PM
Fluoranthene	BRL	330		µg/Kg	1	2/26/2004 11:01:00 PM
Pyrene	BRL	330		µg/Kg	1	2/26/2004 11:01:00 PM
Benz(a)anthracene	BRL	330		µg/Kg	1	2/26/2004 11:01:00 PM
Chrysene	BRL	330		µg/Kg	1	2/26/2004 11:01:00 PM
Benzo(b)fluoranthene	BRL	330		µg/Kg	1	2/26/2004 11:01:00 PM
Benzo(k)fluoranthene	BRL	330		µg/Kg	1	2/26/2004 11:01:00 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	N	Analyte not NELAC certified	P	NELAC analyte certification pending
	Rpt Limit	Reporting Limit	S	Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: 01-Mar-04

CLIENT: Environmental Strategies Corporation, LLC
Lab Order: 0402A27
Project: National Smelting & Refining
Lab ID: 0402A27-006

Client Sample ID: 540W
Collection Date: 2/24/2004 2:55:00 PM
Matrix: SOIL

Analyses	Result	Rpt. Limit	Qual	Units	DF	Date Analyzed
POLYAROMATIC HYDROCARBONS		SW8270C		Analyst: YH		
Benzo(a)pyrene	BRL	330		µg/Kg	1	2/26/2004 11:01:00 PM
Dibenz(a,h)anthracene	BRL	330		µg/Kg	1	2/26/2004 11:01:00 PM
Benzo(g,h,i)perylene	BRL	330		µg/Kg	1	2/26/2004 11:01:00 PM
Indeno(1,2,3-cd)pyrene	BRL	330		µg/Kg	1	2/26/2004 11:01:00 PM
Surr: 2-Fluorobiphenyl	74.6	12.9-120		%REC	1	2/26/2004 11:01:00 PM
Surr: 4-Terphenyl-d14	58.8	41.5-128		%REC	1	2/26/2004 11:01:00 PM
Surr: Nitrobenzene-d5	72.0	10-121		%REC	1	2/26/2004 11:01:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level
BRL	Below Reporting Limit
H	Holding times for preparation or analysis exceeded
N	Analyte not NELAC certified
Rpt Limit	Reporting Limit

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	NELAC analyte certification pending
S	Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: 01-Mar-04

CLIENT: Environmental Strategies Corporation, LLC
Work Order: 0402A27
Project: National Smelting & Refining

ANALYTICAL QC SUMMARY REPORT

BatchID: 42876

Sample ID	MB-42876	SampType: MBLK	TestCode: 6010B_W_T	Units: mg/L	Prep Date: 2/25/2004	RunNo: 48146					
Client ID:		Batch ID: 42876	TestNo: SW6010B		Analysis Date: 2/25/2004	SeqNo: 902450					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Antimony	BRL	0.0200									
Arsenic	BRL	0.0500									
Cadmium	BRL	0.00500									
Chromium	BRL	0.0100									
Cobalt	BRL	0.0200									
Copper	BRL	0.0100									
Lead	BRL	0.0100									
Manganese	BRL	0.00500									
Nickel	BRL	0.0200									
Silver	BRL	0.0100									
Thallium	BRL	0.0200									
Zinc	BRL	0.0200									

Sample ID	LCS-42876	SampType: LCS	TestCode: 6010B_W_T	Units: mg/L	Prep Date: 2/25/2004	RunNo: 48169					
Client ID:		Batch ID: 42876	TestNo: SW6010B		Analysis Date: 2/26/2004	SeqNo: 902822					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Antimony	0.8725	0.0200	1	0	87.2	85	115	0	0		
Arsenic	0.9502	0.0500	1	0	95	85	115	0	0		
Cadmium	0.9995	0.00500	1	0	100	85	115	0	0		
Chromium	0.9933	0.0100	1	0	99.3	85	115	0	0		
Cobalt	1.002	0.0200	1	0	100	85	115	0	0		
Copper	0.9787	0.0100	1	0	97.9	85	115	0	0		
Lead	0.9574	0.0100	1	0	95.7	85	115	0	0		
Manganese	0.9859	0.00500	1	0	98.6	85	115	0	0		
Nickel	0.989	0.0200	1	0	98.9	85	115	0	0		
Silver	0.09103	0.0100	0.1	0	91	85	115	0	0		
Thallium	0.9965	0.0200	1	0	99.7	85	115	0	0		
Zinc	0.9998	0.0200	1	0	100	85	115	0	0		

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Environmental Strategies Corporation, LLC
Work Order: 0402A27
Project: National Smelting & Refining

ANALYTICAL QC SUMMARY REPORT

BatchID: 42876

Sample ID	0402A18-001BMS	SampType: MS	TestCode: 6010B_W_T	Units: mg/L	Prep Date: 2/25/2004	RunNo: 48146					
Client ID:		Batch ID: 42876	TestNo: SW6010B		Analysis Date: 2/25/2004	SeqNo: 902453					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.841	0.0200	1	0	84.1	75	125	0	0		
Arsenic	0.9905	0.0500	1	0	99	75	125	0	0		
Cadmium	1.021	0.00500	1	0.00039	102	75	125	0	0		
Chromium	1.014	0.0100	1	0.00515	101	75	125	0	0		
Cobalt	1.011	0.0200	1	0	101	75	125	0	0		
Copper	1.054	0.0100	1	0.06845	98.6	75	125	0	0		
Lead	0.9444	0.0100	1	0.00542	93.9	75	125	0	0		
Manganese	1.007	0.00500	1	0.00952	99.8	75	125	0	0		
Nickel	0.9938	0.0200	1	0	99.4	75	125	0	0		
Silver	0.08684	0.0100	0.1	0	86.8	75	125	0	0		
Thallium	1.032	0.0200	1	0	103	75	125	0	0		
Zinc	1.33	0.0200	1	0.3009	103	75	125	0	0		

Sample ID	0402A18-001BDUP	SampType: DUP	TestCode: 6010B_W_T	Units: mg/L	Prep Date: 2/25/2004	RunNo: 48146					
Client ID:		Batch ID: 42876	TestNo: SW6010B		Analysis Date: 2/25/2004	SeqNo: 902452					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	BRL	0.0200	0	0	0	0	0	0	0	20	
Arsenic	BRL	0.0500	0	0	0	0	0	0	0	20	
Cadmium	BRL	0.00500	0	0	0	0	0	0.00039	0	20	
Chromium	BRL	0.0100	0	0	0	0	0	0.00515	0	20	
Cobalt	BRL	0.0200	0	0	0	0	0	0	0	20	
Copper	0.06693	0.0100	0	0	0	0	0	0.06845	2.25	20	
Lead	BRL	0.0100	0	0	0	0	0	0.00542	0	20	
Manganese	0.00968	0.00500	0	0	0	0	0	0.00952	1.67	20	
Nickel	BRL	0.0200	0	0	0	0	0	0	0	20	
Silver	BRL	0.0100	0	0	0	0	0	0	0	20	
Thallium	BRL	0.0200	0	0	0	0	0	0	0	20	
Zinc	0.2979	0.0200	0	0	0	0	0	0.3009	0.989	20	

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H		Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R		RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Environmental Strategies Corporation, LLC
Work Order: 0402A27
Project: National Smelting & Refining

ANALYTICAL QC SUMMARY REPORT

BatchID: 42882

Sample ID	MB-42882	SampType: MBLK	TestCode: 8270_PAH_W	Units: µg/L	Prep Date: 2/25/2004	RunNo: 48174					
Client ID:		Batch ID: 42882	TestNo: SW8270C		Analysis Date: 2/25/2004	SeqNo: 903023					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1-Methylnaphthalene	BRL	10									
2-Methylnaphthalene	BRL	10									
Acenaphthene	BRL	10									
Acenaphthylene	BRL	10									
Anthracene	BRL	10									
Benz(a)anthracene	BRL	10									
Benzo(a)pyrene	BRL	10									
Benzo(b)fluoranthene	BRL	10									
Benzo(g,h,i)perylene	BRL	10									
Benzo(k)fluoranthene	BRL	10									
Chrysene	BRL	10									
Dibenz(a,h)anthracene	BRL	10									
Fluoranthene	BRL	10									
Fluorene	BRL	10									
Indeno(1,2,3-cd)pyrene	BRL	10									
Naphthalene	BRL	10									
Phenanthrene	BRL	10									
Pyrene	BRL	10									
Surr: 2-Fluorobiphenyl	36.94	0	50	0	73.9	37	135	0	0		
Surr: 4-Terphenyl-d14	39.35	0	50	0	78.7	21.9	145	0	0		
Surr: Nitrobenzene-d5	35.38	0	50	0	70.8	32.3	136	0	0		

Sample ID	LCS-42882	SampType: LCS	TestCode: 8270_PAH_W	Units: µg/L	Prep Date: 2/25/2004	RunNo: 48174					
Client ID:		Batch ID: 42882	TestNo: SW8270C		Analysis Date: 2/25/2004	SeqNo: 903024					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	44.91	10	50	0	89.8	57	120	0	0		
Acenaphthylene	51.91	10	50	0	104	57.4	130	0	0		
Anthracene	45.77	10	50	0	91.5	53.8	145	0	0		
Benz(a)anthracene	47.63	10	50	0	95.3	60.3	132	0	0		
Benzo(a)pyrene	45.38	10	50	0	90.8	49.3	141	0	0		

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Environmental Strategies Corporation, LLC
Work Order: 0402A27
Project: National Smelting & Refining

ANALYTICAL QC SUMMARY REPORT

BatchID: 42882

Sample ID	LCS-42882	SampType:	LCS	TestCode:	8270_PAH_W	Units:	µg/L	Prep Date:	2/25/2004	RunNo:	48174
Client ID:		Batch ID:	42882	TestNo:	SW8270C			Analysis Date:	2/25/2004	SeqNo:	903024
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(b)fluoranthene	46.52	10	50	0	93	56.5	131	0	0	0	
Benzo(g,h,i)perylene	46.18	10	50	0	92.4	41.9	144	0	0	0	
Benzo(k)fluoranthene	46.15	10	50	0	92.3	50.6	137	0	0	0	
Chrysene	46.88	10	50	0	93.8	62.5	129	0	0	0	
Dibenz(a,h)anthracene	47.1	10	50	0	94.2	41.4	141	0	0	0	
Fluoranthene	44.36	10	50	0	88.7	66.7	128	0	0	0	
Fluorene	44.44	10	50	0	88.9	62.4	124	0	0	0	
Indeno(1,2,3-cd)pyrene	44.5	10	50	0	89	46.7	138	0	0	0	
Naphthalene	42.22	10	50	0	84.4	50	120	0	0	0	
Phenanthrene	46.15	10	50	0	92.3	66.8	124	0	0	0	
Pyrene	48.89	10	50	0	97.8	62.4	127	0	0	0	
Surr: 2-Fluorobiphenyl	42.11	0	50	0	84.2	37	135	0	0	0	
Surr: 4-Terphenyl-d14	43.86	0	50	0	87.7	21.9	145	0	0	0	
Surr: Nitrobenzene-d5	39.14	0	50	0	78.3	32.3	136	0	0	0	

Sample ID	0402A27-001BMS	SampType:	MS	TestCode:	8270_PAH_W	Units:	µg/L	Prep Date:	2/25/2004	RunNo:	48174
Client ID:	MW-3	Batch ID:	42882	TestNo:	SW8270C			Analysis Date:	2/25/2004	SeqNo:	903026
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	46.59	10	50	0	93.2	47.9	127	0	0	0	
Acenaphthylene	52.14	10	50	0	104	52.5	133	0	0	0	
Anthracene	48.04	10	50	0	96.1	55	140	0	0	0	
Benz(a)anthracene	49.84	10	50	0	99.7	56	131	0	0	0	
Benzo(a)pyrene	48.85	10	50	0	97.7	49.3	135	0	0	0	
Benzo(b)fluoranthene	46.56	10	50	0	93.1	48.2	133	0	0	0	
Benzo(g,h,i)perylene	49.31	10	50	0	98.6	42.4	141	0	0	0	
Benzo(k)fluoranthene	53.05	10	50	0	106	44.3	134	0	0	0	
Chrysene	49.69	10	50	0	99.4	54.5	130	0	0	0	
Dibenz(a,h)anthracene	50.44	10	50	0	101	42.7	138	0	0	0	
Fluoranthene	47.1	10	50	0	94.2	59.9	128	0	0	0	
Fluorene	46.42	10	50	0	92.8	56.4	128	0	0	0	

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits
BRL Below Reporting Limit
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
N Analyte not NELAC certified

CLIENT: Environmental Strategies Corporation, LLC
 Work Order: 0402A27
 Project: National Smelting & Refining

ANALYTICAL QC SUMMARY REPORT

BatchID: 42882

Sample ID	0402A27-001BMS	SampType: MS	TestCode: 8270_PAH_W	Units: µg/L	Prep Date: 2/25/2004	RunNo: 48174					
Client ID: MW-3		Batch ID: 42882	TestNo: SW8270C		Analysis Date: 2/25/2004	SeqNo: 903026					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Indeno(1,2,3-cd)pyrene	47.16	10	50	0	94.3	43.5	138	0	0		
Naphthalene	41.75	10	50	0	83.5	47.1	127	0	0		
Phenanthrene	48.46	10	50	0	96.9	60.2	127	0	0		
Pyrene	50.99	10	50	0	102	55.7	129	0	0		
Surr: 2-Fluorobiphenyl	43.79	0	50	0	87.6	37	135	0	0		
Surr: 4-Terphenyl-d14	46.03	0	50	0	92.1	21.9	145	0	0		
Surr: Nitrobenzene-d5	38.12	0	50	0	76.2	32.3	136	0	0		

Sample ID	0402A27-001BMSD	SampType: MSD	TestCode: 8270_PAH_W	Units: µg/L	Prep Date: 2/25/2004	RunNo: 48174					
Client ID: MW-3		Batch ID: 42882	TestNo: SW8270C		Analysis Date: 2/25/2004	SeqNo: 903027					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	41.5	10	50	0	83	47.9	127	46.59	11.6	19.6	
Acenaphthylene	46.78	10	50	0	93.6	52.5	133	52.14	10.8	19.5	
Anthracene	43.13	10	50	0	86.3	55	140	48.04	10.8	19.4	
Benz(a)anthracene	43.95	10	50	0	87.9	56	131	49.84	12.6	19.6	
Benzo(a)pyrene	42.32	10	50	0	84.6	49.3	135	48.85	14.3	19.6	
Benzo(b)fluoranthene	42.74	10	50	0	85.5	48.2	133	46.56	8.56	22	
Benzo(g,h,i)perylene	44.22	10	50	0	88.4	42.4	141	49.31	10.9	20.7	
Benzo(k)fluoranthene	43.95	10	50	0	87.9	44.3	134	53.05	18.8	23.9	
Chrysene	43.86	10	50	0	87.7	54.5	130	49.69	12.5	19.7	
Dibenz(a,h)anthracene	45.23	10	50	0	90.5	42.7	138	50.44	10.9	20.7	
Fluoranthene	42.14	10	50	0	84.3	59.9	128	47.1	11.1	19.5	
Fluorene	41.35	10	50	0	82.7	56.4	128	46.42	11.6	20.6	
Indeno(1,2,3-cd)pyrene	43.7	10	50	0	87.4	43.5	138	47.16	7.62	20.8	
Naphthalene	39.32	10	50	0	78.6	47.1	127	41.75	5.99	24.2	
Phenanthrene	43.66	10	50	0	87.3	60.2	127	48.46	10.4	18.8	
Pyrene	44.07	10	50	0	88.1	55.7	129	50.99	14.6	18.5	
Surr: 2-Fluorobiphenyl	39.1	0	50	0	78.2	37	135	43.79	0	0	
Surr: 4-Terphenyl-d14	39.82	0	50	0	79.6	21.9	145	46.03	0	0	
Surr: Nitrobenzene-d5	35.45	0	50	0	70.9	32.3	136	38.12	0	0	

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H		Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R		RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Environmental Strategies Corporation, LLC
Work Order: 0402A27
Project: National Smelting & Refining

ANALYTICAL QC SUMMARY REPORT

BatchID: 42890

Sample ID	MB-42890	SampType: MBLK	TestCode: 8082_S	Units: µg/Kg	Prep Date: 2/25/2004	RunNo: 48245					
Client ID:		Batch ID: 42890	TestNo: SW8082		Analysis Date: 2/27/2004	SeqNo: 904858					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016	BRL	33									
Aroclor 1221	BRL	33									
Aroclor 1232	BRL	33									
Aroclor 1242	BRL	33									
Aroclor 1248	BRL	33									
Aroclor 1254	BRL	33									
Aroclor 1260	BRL	33									
Surr: Decachlorobiphenyl	18.53	0	16.67	0	111	20.9	163	0	0		
Surr: Tetrachloro-m-xylene	14.22	0	16.67	0	85.3	28.6	126	0	0		

Sample ID	LCS-42890	SampType: LCS	TestCode: 8082_S	Units: µg/Kg	Prep Date: 2/25/2004	RunNo: 48245					
Client ID:		Batch ID: 42890	TestNo: SW8082		Analysis Date: 2/27/2004	SeqNo: 904859					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016	147	33	166.7	0	88.2	63.1	124	0	0		
Aroclor 1260	146.3	33	166.7	0	87.8	74.7	120	0	0		
Surr: Decachlorobiphenyl	18.18	0	16.67	0	109	20.9	163	0	0		
Surr: Tetrachloro-m-xylene	12.28	0	16.67	0	73.6	28.6	126	0	0		

Sample ID	0402A27-006AMS	SampType: MS	TestCode: 8082_S	Units: µg/Kg	Prep Date: 2/25/2004	RunNo: 48245					
Client ID:	540W	Batch ID: 42890	TestNo: SW8082		Analysis Date: 2/27/2004	SeqNo: 904861					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016	144.3	33	166.4	0	86.7	58.2	129	0	0		
Aroclor 1260	130.2	33	166.4	10.9	71.7	20.8	147	0	0		
Surr: Decachlorobiphenyl	14.8	0	16.64	0	88.9	20.9	163	0	0		
Surr: Tetrachloro-m-xylene	14.26	0	16.64	0	85.7	28.6	126	0	0		

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Environmental Strategies Corporation, LLC
 Work Order: 0402A27
 Project: National Smelting & Refining

ANALYTICAL QC SUMMARY REPORT

BatchID: 42890

Sample ID	0402A27-006AMSD	SampType: MSD	TestCode: 8082_S	Units: µg/Kg	Prep Date: 2/25/2004	RunNo: 48245					
Client ID:	540W	Batch ID: 42890	TestNo: SW8082		Analysis Date: 2/27/2004	SeqNo: 904862					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	150.7	33	166.4	0	90.5	58.2	129	144.3	4.31	35.3	
Aroclor 1260	138.4	33	166.4	10.9	76.6	20.8	147	130.2	6.13	27.3	
Surr: Decachlorobiphenyl	15.25	0	16.65	0	91.6	20.9	163	14.8	0	0	
Surr: Tetrachloro-m-xylene	14.71	0	16.65	0	88.3	28.6	126	14.26	0	0	

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H		Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R		RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Environmental Strategies Corporation, LLC
Work Order: 0402A27
Project: National Smelting & Refining

ANALYTICAL QC SUMMARY REPORT

BatchID: 42892

Sample ID	MB-42892	SampType:	MBLK	TestCode:	6010B_S	Units:	mg/Kg	Prep Date:	2/25/2004	RunNo:	48146		
Client ID:		Batch ID:	42892	TestNo:	SW6010B			Analysis Date:	2/25/2004	SeqNo:	902424		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Antimony	BRL	0.500											
Arsenic	BRL	0.500											
Cadmium	BRL	0.250											
Chromium	BRL	0.250											
Cobalt	BRL	0.250											
Copper	BRL	0.250											
Lead	BRL	0.500											
Manganese	BRL	0.500											
Nickel	BRL	0.500											
Silver	BRL	0.250											
Thallium	BRL	0.500											
Zinc	BRL	0.500											

Sample ID	LCS-42892	SampType:	LCS	TestCode:	6010B_S	Units:	mg/Kg	Prep Date:	2/25/2004	RunNo:	48146		
Client ID:		Batch ID:	42892	TestNo:	SW6010B			Analysis Date:	2/25/2004	SeqNo:	902422		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Antimony	41.98	5.00	50	0.04315	83.9	80	120	0	0	0	0		
Arsenic	46.55	5.00	50	0	93.1	80	120	0	0	0	0		
Cadmium	50.14	2.50	50	0.0037	100	80	120	0	0	0	0		
Chromium	50.73	2.50	50	0.07105	101	80	120	0	0	0	0		
Cobalt	50.25	2.50	50	0.0033	100	80	120	0	0	0	0		
Copper	49.42	2.50	50	0.0068	98.8	80	120	0	0	0	0		
Lead	47.84	5.00	50	0.00535	95.7	80	120	0	0	0	0		
Manganese	49.54	5.00	50	0.01045	99.1	80	120	0	0	0	0		
Nickel	49.5	5.00	50	0.004	99	80	120	0	0	0	0		
Silver	4.204	2.50	5	0.00375	84	80	120	0	0	0	0		
Thallium	50.38	5.00	50	0	101	80	120	0	0	0	0		
Zinc	50.57	5.00	50	0.0127	101	80	120	0	0	0	0		

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Environmental Strategies Corporation, LLC
Work Order: 0402A27
Project: National Smelting & Refining

ANALYTICAL QC SUMMARY REPORT

BatchID: 42892

Sample ID	0402A27-006AMS	SampType:	MS	TestCode:	6010B_S	Units:	mg/Kg	Prep Date:	2/25/2004	RunNo:	48146
Client ID:	540W	Batch ID:	42892	TestNo:	SW6010B			Analysis Date:	2/25/2004	SeqNo:	902427
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	26.2	4.50	44.96	12.81	29.8	75	125	0	0		S
Arsenic	43.81	4.50	44.96	5.238	85.8	75	125	0	0		
Cadmium	42.39	2.25	44.96	2.677	88.3	75	125	0	0		
Chromium	157.9	2.25	44.96	130	62.2	75	125	0	0		S
Cobalt	71.19	2.25	44.96	40.1	69.2	75	125	0	0		S
Copper	142.9	2.25	44.96	107.5	78.7	75	125	0	0		S
Lead	600.1	4.50	44.96	621.3	-47.1	75	125	0	0		S
Manganese	946	4.50	44.96	1344	-886	75	125	0	0		S
Nickel	72.37	4.50	44.96	36.58	79.6	75	125	0	0		
Silver	3.654	2.25	4.496	0	81.3	75	125	0	0		
Thallium	43.01	4.50	44.96	2.885	89.3	75	125	0	0		
Zinc	197.4	4.50	44.96	166.9	68	75	125	0	0		S

Sample ID	0402A27-006ADUP	SampType:	DUP	TestCode:	6010B_S	Units:	mg/Kg	Prep Date:	2/25/2004	RunNo:	48146
Client ID:	540W	Batch ID:	42892	TestNo:	SW6010B			Analysis Date:	2/25/2004	SeqNo:	902426
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	10.67	4.62	0	0	0	0	0	12.81	18.2	20	
Arsenic	4.653	4.62	0	0	0	0	0	5.238	11.8	20	
Cadmium	BRL	2.31	0	0	0	0	0	2.677	0	20	
Chromium	116.6	2.31	0	0	0	0	0	130	10.8	20	
Cobalt	37.1	2.31	0	0	0	0	0	40.1	7.76	20	
Copper	100	2.31	0	0	0	0	0	107.5	7.21	20	
Lead	567.2	4.62	0	0	0	0	0	621.3	9.12	20	
Manganese	1025	4.62	0	0	0	0	0	1344	27.0	20	R
Nickel	34.12	4.62	0	0	0	0	0	36.58	6.96	20	
Silver	BRL	2.31	0	0	0	0	0	0	0	20	
Thallium	BRL	4.62	0	0	0	0	0	2.885	0	20	
Zinc	156.9	4.62	0	0	0	0	0	166.9	6.13	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

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CLIENT: Environmental Strategies Corporation, LLC
Work Order: 0402A27
Project: National Smelting & Refining

ANALYTICAL QC SUMMARY REPORT

BatchID: 42908

Sample ID	MB-42908	SampType:	MBLK	TestCode:	8270_PAH_S	Units:	µg/Kg	Prep Date:	2/26/2004	RunNo:	48207
Client ID:		Batch ID:	42908	TestNo:	SW8270C			Analysis Date:	2/26/2004	SeqNo:	904067
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1-Methylnaphthalene	BRL	330									
2-Methylnaphthalene	BRL	330									
Acenaphthene	BRL	330									
Acenaphthylene	BRL	330									
Anthracene	BRL	330									
Benz(a)anthracene	BRL	330									
Benzo(a)pyrene	BRL	330									
Benzo(b)fluoranthene	BRL	330									
Benzo(g,h,i)perylene	BRL	330									
Benzo(k)fluoranthene	BRL	330									
Chrysene	BRL	330									
Dibenz(a,h)anthracene	BRL	330									
Fluoranthene	BRL	330									
Fluorene	BRL	330									
Indeno(1,2,3-cd)pyrene	BRL	330									
Naphthalene	BRL	330									
Phenanthrene	BRL	330									
Pyrene	BRL	330									
Surr: 2-Fluorobiphenyl	1188	0	1667	0	71.3	12.9	120	0	0	0	
Surr: 4-Terphenyl-d14	1274	0	1667	0	76.5	41.5	128	0	0	0	
Surr: Nitrobenzene-d5	1110	0	1667	0	66.6	10	121	0	0	0	

Sample ID	LCS-42908	SampType:	LCS	TestCode:	8270_PAH_S	Units:	µg/Kg	Prep Date:	2/26/2004	RunNo:	48207
Client ID:		Batch ID:	42908	TestNo:	SW8270C			Analysis Date:	2/26/2004	SeqNo:	904068
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	1383	330	1667	0	83	17.5	122	0	0	0	
Acenaphthylene	1594	330	1667	0	95.7	24	120	0	0	0	
Anthracene	1406	330	1667	0	84.4	51.6	126	0	0	0	
Benzo(a)anthracene	1455	330	1667	0	87.3	65.5	120	0	0	0	
Benzo(a)pyrene	1380	330	1667	0	82.8	64	120	0	0	0	

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Environmental Strategies Corporation, LLC
Work Order: 0402A27
Project: National Smelting & Refining

ANALYTICAL QC SUMMARY REPORT

BatchID: 42908

Sample ID	LCS-42908	SampType:	LCS	TestCode:	8270_PAH_S	Units:	µg/Kg	Prep Date:	2/26/2004	RunNo:	48207
Client ID:		Batch ID:	42908	TestNo:	SW8270C			Analysis Date:	2/26/2004	SeqNo:	904068
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(b)fluoranthene	1443	330	1667	0	86.6	63.4	120	0	0		
Benzo(g,h,i)perylene	1442	330	1667	0	86.5	52.3	131	0	0		
Benzo(k)fluoranthene	1450	330	1667	0	87	60.7	123	0	0		
Chrysene	1429	330	1667	0	85.7	62.5	120	0	0		
Dibenz(a,h)anthracene	1481	330	1667	0	88.8	57.3	125	0	0		
Fluoranthene	1400	330	1667	0	84	61.9	120	0	0		
Fluorene	1380	330	1667	0	82.8	30.3	120	0	0		
Indeno(1,2,3-cd)pyrene	1381	330	1667	0	82.9	55.8	125	0	0		
Naphthalene	1262	330	1667	0	75.7	20.4	120	0	0		
Phenanthrene	1415	330	1667	0	84.9	49.4	120	0	0		
Pyrene	1477	330	1667	0	88.6	58.6	120	0	0		
Surr: 2-Fluorobiphenyl	1299	0	1667	0	77.9	12.9	120	0	0		
Surr: 4-Terphenyl-d14	1325	0	1667	0	79.5	41.5	128	0	0		
Surr: Nitrobenzene-d5	1154	0	1667	0	69.3	10	121	0	0		

Sample ID	0402A72-001BMS	SampType: MS	TestCode: 8270_PAH_S	Units: µg/Kg	Prep Date: 2/26/2004	RunNo: 48207					
Client ID:		Batch ID: 42908	TestNo: SW8270C		Analysis Date: 2/26/2004	SeqNo: 904071					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	1337	330	1666	0	80.3	13.9	121	0	0		
Acenaphthylene	1563	330	1666	0	93.9	14.6	120	0	0		
Anthracene	1374	330	1666	0	82.5	43.4	131	0	0		
Benzo(a)anthracene	1420	330	1666	0	85.2	39.7	139	0	0		
Benzo(a)pyrene	1343	330	1666	0	80.7	36.3	141	0	0		
Benzo(b)fluoranthene	1377	330	1666	0	82.7	52.4	121	0	0		
Benzo(g,h,i)perylene	1384	330	1666	0	83.1	37.5	137	0	0		
Benzo(k)fluoranthene	1400	330	1666	0	84.1	48.3	128	0	0		
Chrysene	1402	330	1666	0	84.2	48.7	128	0	0		
Dibenz(a,h)anthracene	1417	330	1666	0	85.1	44.3	129	0	0		
Fluoranthene	1338	330	1666	0	80.4	54.6	121	0	0		
Fluorene	1322	330	1666	0	79.4	23	120	0	0		

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H		Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R		RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Environmental Strategies Corporation, LLC
Work Order: 0402A27
Project: National Smelting & Refining

ANALYTICAL QC SUMMARY REPORT

BatchID: 42908

Sample ID	0402A72-001BMS	SampType:	MS	TestCode:	8270_PAH_S	Units:	µg/Kg	Prep Date:	2/26/2004	RunNo:	48207
Client ID:		Batch ID:	42908	TestNo:	SW8270C			Analysis Date:	2/26/2004	SeqNo:	904071
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Indeno(1,2,3-cd)pyrene	1350	330	1666	0	81.1	44.8	128	0	0	0	
Naphthalene	1255	330	1666	0	75.4	10	120	0	0	0	
Phenanthrene	1367	330	1666	0	82.1	43.9	120	0	0	0	
Pyrene	1427	330	1666	0	85.7	42.4	128	0	0	0	
Surr: 2-Fluorobiphenyl	1248	0	1666	0	74.9	12.9	120	0	0	0	
Surr: 4-Terphenyl-d14	1282	0	1666	0	77	41.5	128	0	0	0	
Surr: Nitrobenzene-d5	1157	0	1666	0	69.5	10	121	0	0	0	

Sample ID	0402A72-001BMSD	SampType:	MSD	TestCode:	8270_PAH_S	Units:	µg/Kg	Prep Date:	2/26/2004	RunNo:	48207
Client ID:		Batch ID:	42908	TestNo:	SW8270C			Analysis Date:	2/26/2004	SeqNo:	904072
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	1269	330	1664	0	76.2	13.9	121	1337	5.28	49	
Acenaphthylene	1477	330	1664	0	88.8	14.6	120	1563	5.65	51.1	
Anthracene	1321	330	1664	0	79.4	43.4	131	1374	3.97	36.6	
Benz(a)anthracene	1385	330	1664	0	83.2	39.7	139	1420	2.49	38.6	
Benzo(a)pyrene	1312	330	1664	0	78.8	36.3	141	1343	2.40	37.7	
Benzo(b)fluoranthene	1357	330	1664	0	81.5	52.4	121	1377	1.43	42.1	
Benzo(g,h,i)perylene	1338	330	1664	0	80.4	37.5	137	1384	3.37	29.5	
Benzo(k)fluoranthene	1344	330	1664	0	80.8	48.3	128	1400	4.09	33.3	
Chrysene	1358	330	1664	0	81.6	48.7	128	1402	3.20	40.8	
Dibenz(a,h)anthracene	1381	330	1664	0	83	44.3	129	1417	2.57	29.1	
Fluoranthene	1297	330	1664	0	77.9	54.6	121	1338	3.12	21.9	
Fluorene	1288	330	1664	0	77.4	23	120	1322	2.62	39.5	
Indeno(1,2,3-cd)pyrene	1311	330	1664	0	78.8	44.8	128	1350	2.92	24	
Naphthalene	1192	330	1664	0	71.6	10	120	1255	5.13	47.1	
Phenanthrene	1334	330	1664	0	80.2	43.9	120	1367	2.46	31.5	
Pyrene	1390	330	1664	0	83.5	42.4	128	1427	2.62	23.9	
Surr: 2-Fluorobiphenyl	1192	0	1664	0	71.6	12.9	120	1248	0	0	
Surr: 4-Terphenyl-d14	1236	0	1664	0	74.2	41.5	128	1282	0	0	
Surr: Nitrobenzene-d5	1088	0	1664	0	65.4	10	121	1157	0	0	

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H		Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R		RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Environmental Strategies Corporation, LLC
Work Order: 0402A27
Project: National Smelting & Refining

ANALYTICAL QC SUMMARY REPORT

BatchID: 42924

Sample ID	LCS-42924	SampType:	LCS	TestCode:	8260_TCL4.2	Units:	µg/L	Prep Date:	2/26/2004	RunNo:	48122
Client ID:		Batch ID:	42924	TestNo:	SW8260B			Analysis Date:	2/25/2004	SeqNo:	902430
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	57.55	5.0	50	0	115	58.1	142	0	0		
Benzene	45.35	5.0	50	0	90.7	74	127	0	0		
Chlorobenzene	45.26	5.0	50	0	90.5	79.8	118	0	0		
Toluene	43.53	5.0	50	0	87.1	78.5	124	0	0		
Trichloroethene	42.38	5.0	50	0	84.8	74.2	138	0	0		
Surr: 4-Bromofluorobenzene	48.38	0	50	0	96.8	63.1	121	0	0		
Surr: Dibromofluoromethane	50.39	0	50	0	101	69.5	126	0	0		
Surr: Toluene-d8	51.31	0	50	0	103	74.2	120	0	0		

Sample ID	0402A46-001AMS	SampType:	MS	TestCode:	8260_TCL4.2	Units:	µg/L	Prep Date:	2/26/2004	RunNo:	48156
Client ID:		Batch ID:	42924	TestNo:	SW8260B			Analysis Date:	2/26/2004	SeqNo:	903156
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	62.57	5.0	50	0	125	51.1	151	0	0		
Benzene	49.03	5.0	50	0	98.1	68.9	131	0	0		
Chlorobenzene	48.44	5.0	50	0	96.9	75.4	123	0	0		
Toluene	47.66	5.0	50	0	95.3	74.8	128	0	0		
Trichloroethene	47.13	5.0	50	0	94.3	66.3	145	0	0		
Surr: 4-Bromofluorobenzene	48.28	0	50	0	96.6	63.1	121	0	0		
Surr: Dibromofluoromethane	50.49	0	50	0	101	69.5	126	0	0		
Surr: Toluene-d8	50.55	0	50	0	101	74.2	120	0	0		

Sample ID	0402A46-001AMS	SampType:	MSD	TestCode:	8260_TCL4.2	Units:	µg/L	Prep Date:	2/26/2004	RunNo:	48156
Client ID:		Batch ID:	42924	TestNo:	SW8260B			Analysis Date:	2/26/2004	SeqNo:	903157
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	62.17	5.0	50	0	124	51.1	151	62.57	0.641	14.3	
Benzene	48.08	5.0	50	0	96.2	68.9	131	49.03	1.96	10	
Chlorobenzene	48.04	5.0	50	0	96.1	75.4	123	48.44	0.829	10	
Toluene	46.89	5.0	50	0	93.8	74.8	128	47.66	1.63	10	
Trichloroethene	45.49	5.0	50	0	91	66.3	145	47.13	3.54	11	

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H		Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R		RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Environmental Strategies Corporation, LLC
 Work Order: 0402A27
 Project: National Smelting & Refining

ANALYTICAL QC SUMMARY REPORT

BatchID: 42924

Sample ID	0402A46-001AMSD	SampType: MSD	TestCode: 8260_TCL4.2	Units: µg/L	Prep Date: 2/26/2004	RunNo: 48156					
Client ID:		Batch ID: 42924	TestNo: SW8260B		Analysis Date: 2/26/2004	SeqNo: 903157					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: 4-Bromofluorobenzene	47.87	0	50	0	95.7	63.1	121	48.28	0	0	0
Surr: Dibromofluoromethane	50.72	0	50	0	101	69.5	126	50.49	0	0	0
Surr: Toluene-d8	49.82	0	50	0	99.6	74.2	120	50.55	0	0	0

Sample ID	MB-42924	SampType: MBLK	TestCode: 8260B_W	Units: µg/L	Prep Date: 2/26/2004	RunNo: 48122						
Client ID:		Batch ID: 42924	TestNo: SW8260B		Analysis Date: 2/25/2004	SeqNo: 902318						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloroethene, Total	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	10									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	20									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Environmental Strategies Corporation, LLC
Work Order: 0402A27
Project: National Smelting & Refining

ANALYTICAL QC SUMMARY REPORT

BatchID: 42924

Sample ID	MB-42924	SampType:	MBLK	TestCode:	8260B_W	Units:	µg/L	Prep Date:	2/26/2004	RunNo:	48122		
Client ID:		Batch ID:	42924	TestNo:	SW8260B			Analysis Date:	2/25/2004	SeqNo:	902318		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	10									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
Naphthalene	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Xylenes, Total	BRL	5.0									
Surr: 4-Bromofluorobenzene	49.9		50	0	99.8	63.1	121	0	0		
Surr: Dibromofluoromethane	48.2		50	0	96.4	69.5	126	0	0		

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

BRL Below Reporting Limit
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

E Value above quantitation range
N Analyte not NELAC certified

CLIENT: Environmental Strategies Corporation, LLC
Work Order: 0402A27
Project: National Smelting & Refining

ANALYTICAL QC SUMMARY REPORT

BatchID: 42924

Sample ID	MB-42924	SampType: MBLK	TestCode: 8260B_W	Units: µg/L	Prep Date: 2/26/2004	RunNo: 48122					
Client ID:		Batch ID: 42924	TestNo: SW8260B		Analysis Date: 2/25/2004	SeqNo: 902318					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Toluene-d8	51.4	5.0	50	0	103	74.2	120	0	0	0	

Sample ID	MB-42924	SampType: MBLK	TestCode: 8260B_W	Units: µg/L	Prep Date: 2/26/2004	RunNo: 48156					
Client ID:		Batch ID: 42924	TestNo: SW8260B		Analysis Date: 2/26/2004	SeqNo: 902604					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloroethene, Total	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	10									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	20									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit		E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits		N	Analyte not NELAC certified
	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits			

CLIENT: Environmental Strategies Corporation, LLC

Work Order: 0402A27

Project: National Smelting & Refining

ANALYTICAL QC SUMMARY REPORT

BatchID: 42924

Sample ID	MB-42924	SampType: MBLK	TestCode: 8260B_W	Units: µg/L	Prep Date: 2/26/2004	RunNo: 48156					
Client ID:		Batch ID: 42924	TestNo: SW8260B		Analysis Date: 2/26/2004	SeqNo: 902604					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	10									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
Naphthalene	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Xylenes, Total	BRL	5.0									
Surr: 4-Bromofluorobenzene	48.33	5.0	50	0	96.7	63.1	121	0	0	0	
Surr: Dibromofluoromethane	50.73	5.0	50	0	101	69.5	126	0	0	0	
Surr: Toluene-d8	51.34	5.0	50	0	103	74.2	120	0	0	0	

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

BRL Below Reporting Limit
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

E Value above quantitation range
N Analyte not NELAC certified

CLIENT: Environmental Strategies Corporation, LLC
Work Order: 0402A27
Project: National Smelting & Refining

ANALYTICAL QC SUMMARY REPORT

BatchID: 42924

Sample ID	LCS-42924	SampType: LCS	TestCode: 8260B_W	Units: µg/L	Prep Date: 2/26/2004	RunNo: 48156					
Client ID:	Batch ID: 42924	TestNo: SW8260B			Analysis Date: 2/26/2004	SeqNo: 902605					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	56.43	5.0	50	0	113	58.1	142	0	0		
Benzene	44.81	5.0	50	0	89.6	74	127	0	0		
Chlorobenzene	45.11	5.0	50	0	90.2	79.8	118	0	0		
Toluene	42.76	5.0	50	0	85.5	78.5	124	0	0		
Trichloroethene	41.44	5.0	50	0	82.9	74.2	138	0	0		
Surr: 4-Bromofluorobenzene	47.66	5.0	50	0	95.3	63.1	121	0	0		
Surr: Dibromofluoromethane	48.5	5.0	50	0	97	69.5	126	0	0		
Surr: Toluene-d8	49.98	5.0	50	0	100	74.2	120	0	0		

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H		Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R		RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Environmental Strategies Corporation, LLC
Work Order: 0402A27
Project: National Smelting & Refining

ANALYTICAL QC SUMMARY REPORT

BatchID: 42949

Sample ID	MB-42949	SampType: MBLK	TestCode: 245.1_W	Units: mg/L	Prep Date: 2/27/2004	RunNo: 48218					
Client ID:		Batch ID: 42949	TestNo: E245.1		Analysis Date: 2/27/2004	SeqNo: 904336					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	BRL	0.000200	0	0	0	0	0	0	0	0	

Sample ID	LCS-42949	SampType: LCS	TestCode: 245.1_W	Units: mg/L	Prep Date: 2/27/2004	RunNo: 48218					
Client ID:		Batch ID: 42949	TestNo: E245.1		Analysis Date: 2/27/2004	SeqNo: 904338					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.004945	0.000200	0.005	0	98.9	85	115	0	0	0	0

Sample ID	0402986-001IMS	SampType: MS	TestCode: 245.1_W	Units: mg/L	Prep Date: 2/27/2004	RunNo: 48218					
Client ID:		Batch ID: 42949	TestNo: E245.1		Analysis Date: 2/27/2004	SeqNo: 904343					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.005085	0.000200	0.005	0.00005888	101	70	130	0	0	0	0

Sample ID	0402986-001IMSD	SampType: MSD	TestCode: 245.1_W	Units: mg/L	Prep Date: 2/27/2004	RunNo: 48218					
Client ID:		Batch ID: 42949	TestNo: E245.1		Analysis Date: 2/27/2004	SeqNo: 904344					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.005096	0.000200	0.005	0.00005888	101	70	130	0.005085	0.216	20	20

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Environmental Strategies Corporation, LLC
Work Order: 0402A27
Project: National Smelting & Refining

ANALYTICAL QC SUMMARY REPORT

BatchID: 42987

Sample ID	MB-42987	Sample Type: MBLK	TestCode: 7471A_S	Units: mg/Kg	Prep Date: 2/28/2004	RunNo: 48236						
Client ID:		Batch ID: 42987	TestNo: SW7471A		Analysis Date: 2/28/2004	SeqNo: 904767						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID	LCS-42987	SampleType:	LCS	TestCode:	7471A_S	Units:	mg/Kg	Prep Date:	2/28/2004	RunNo:	48236		
Client ID:		Batch ID:	42987	TestNo:	SW7471A			Analysis Date:	2/28/2004	SeqNo:	904768		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID	0402A27-006AMS	SampleType: MS	TestCode: 7471A_S	Units: mg/Kg	Prep Date: 2/28/2004	RunNo: 48236						
Client ID:	540W	Batch ID: 42987	TestNo: SW7471A		Analysis Date: 2/28/2004	SeqNo: 904770						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID	0402A27-006AMSD	SampleType: MSD	TestCode: 7471A_S	Units: mg/Kg	Prep Date: 2/28/2004	RunNo: 48236						
Client ID: 540W		Batch ID: 42987	TestNo: SW7471A		Analysis Date: 2/28/2004	SeqNo: 904771						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

September 23, 2005

GiGi Beaulieu
Environmental Strategies Corporation
1740 Massachusetts Ave.
Boxborough, MA 01719
TEL: (978) 635-9600
FAX (978) 264-0537
RE: NL/Atlanta, GA

Dear GiGi Beaulieu:

Order No.: 0506948

Analytical Environmental Services, Inc. received 10 samples on 6/20/2005 10:50:00 AM for the analyses presented in the following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative. Sample results are not dry weight corrected, unless if Pmoist analysis are requested on the chain of custody or other project specific arrangements have been made. AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water, effective 06/01/05-06/30/06.
- AIHA Certification number 505 for analysis of Industrial Hygiene samples (Organics, Inorganics), Paint Chips, Soil and Dust Wipes, effective until 02/01/07.

These results relate only to the items tested. This report may only be reproduced in full and contains 21 total pages (including cover letter).

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Allison Cantrell
Project Manager

AFS TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order:

0506948

[illegible]

White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Environmental Strategies Consulting

Work Order Number 0506948

Checklist completed by Brent Summers
Signature

6/20/05
Date

Carrier name: FedEx ☐ UPS ☐ Courier ☐ Client ☒ US Mail ☐ Other ☐

Shipping container/cooler in good condition? Yes ☒ No ☐ Not Present ☐

Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒

Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒

Container/Temp Blank temperature in compliance? ($4^{\circ}\text{C} \pm 2$)? Yes ☒ No ☐

Cooler #1 4.7°C Cooler #2 5.1°C Cooler #3 ☐ Cooler #4 ☐ Cooler #5 ☐ Cooler #6 ☐

Chain of custody present? Yes ☒ No ☐

Chain of custody signed when relinquished and received? Yes ☒ No ☐

Chain of custody agrees with sample labels? Yes ☒ No ☐

Samples in proper container/bottle? Yes ☒ No ☒ 6/20/05

Sample containers intact? Yes ☒ No ☐

Sufficient sample volume for indicated test? Yes ☒ No ☐

All samples received within holding time? Yes ☒ No ☐

Was TAT marked on the COC? Yes ☒ No ☐

Proceed with Standard TAT as per project history? Yes ☐ No ☐ Not Applicable ☒

Water - VOA vials have zero headspace? No VOA vials submitted ☐ Yes ☒ No ☐

Water - pH acceptable upon receipt? Yes ☐ No ☒ Not Applicable ☐

Adjusted? BA Checked by BA
Sample Condition: Good ☒ Other(Explain) ☐

(For diffusive samples or AIHA lead) Is a known blank included? Yes ☐ No ☒

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

C:\Documents and Settings\Chemist\Desktop\SampleReceiptChecklistRptREV.rtf

Analytical Environmental Services, Inc.

Date: 23-Sep-05

CLIENT: Environmental Strategies Corporation
Project: NL/Atlanta, GA
Lab ID: 0506948-001

Client Sample ID: MW-7
Collection Date: 6/19/2005 10:05:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
METALS, TOTAL							
		SW6010B			(SW3010A)		Analyst: BB
Antimony	BRL	0.0200		mg/L	59043	1	6/23/2005 6:34 PM
Arsenic	BRL	0.0500		mg/L	59043	1	6/23/2005 6:34 PM
Cadmium	0.0083	0.0050		mg/L	59043	1	6/23/2005 6:34 PM
Cobalt	0.0912	0.0200		mg/L	59043	1	6/23/2005 6:34 PM
Copper	0.0645	0.0100		mg/L	59043	1	6/23/2005 6:34 PM
Lead	0.0670	0.0100		mg/L	59043	1	6/23/2005 6:34 PM
Selenium	BRL	0.0200		mg/L	59043	1	6/23/2005 6:34 PM
Silver	BRL	0.0100		mg/L	59043	1	6/23/2005 6:34 PM
Thallium	BRL	0.0200		mg/L	59043	1	6/23/2005 6:34 PM
Zinc	0.154	0.0200		mg/L	59043	1	6/23/2005 6:34 PM
POLYAROMATIC HYDROCARBONS							
		SW8270C			(SW3535)		Analyst: JMZ
Naphthalene	BRL	10		µg/L	59008	1	6/22/2005 11:04 AM
Acenaphthylene	BRL	10		µg/L	59008	1	6/22/2005 11:04 AM
1-Methylnaphthalene	BRL	10		µg/L	59008	1	6/22/2005 11:04 AM
2-Methylnaphthalene	BRL	10		µg/L	59008	1	6/22/2005 11:04 AM
Acenaphthene	BRL	10		µg/L	59008	1	6/22/2005 11:04 AM
Fluorene	BRL	10		µg/L	59008	1	6/22/2005 11:04 AM
Phenanthrene	BRL	10		µg/L	59008	1	6/22/2005 11:04 AM
Anthracene	BRL	10		µg/L	59008	1	6/22/2005 11:04 AM
Fluoranthene	BRL	10		µg/L	59008	1	6/22/2005 11:04 AM
Pyrene	BRL	10		µg/L	59008	1	6/22/2005 11:04 AM
Benz(a)anthracene	BRL	10		µg/L	59008	1	6/22/2005 11:04 AM
Chrysene	BRL	10		µg/L	59008	1	6/22/2005 11:04 AM
Benzo(b)fluoranthene	BRL	10		µg/L	59008	1	6/22/2005 11:04 AM
Benzo(k)fluoranthene	BRL	10		µg/L	59008	1	6/22/2005 11:04 AM
Benzo(a)pyrene	BRL	10		µg/L	59008	1	6/22/2005 11:04 AM
Dibenz(a,h)anthracene	BRL	10		µg/L	59008	1	6/22/2005 11:04 AM
Benzo(g,h,i)perylene	BRL	10		µg/L	59008	1	6/22/2005 11:04 AM
Indeno(1,2,3-cd)pyrene	BRL	10		µg/L	59008	1	6/22/2005 11:04 AM
Surr: Nitrobenzene-d5	72.3	26.3-132		%REC	59008	1	6/22/2005 11:04 AM
Surr: 2-Fluorobiphenyl	84.0	46.6-117		%REC	59008	1	6/22/2005 11:04 AM
Surr: 4-Terphenyl-d14	102	34-135		%REC	59008	1	6/22/2005 11:04 AM
VOLATILE ORGANICS							
		SW8260B			(SW5030B)		Analyst: TMP
Benzene	BRL	1.0		µg/L	59169	1	6/23/2005 5:54 AM
Toluene	BRL	1.0		µg/L	59169	1	6/23/2005 5:54 AM
Ethylbenzene	BRL	1.0		µg/L	59169	1	6/23/2005 5:54 AM
m,p-Xylene	BRL	1.0		µg/L	59169	1	6/23/2005 5:54 AM
o-Xylene	BRL	1.0		µg/L	59169	1	6/23/2005 5:54 AM
Surr: 4-Bromofluorobenzene	126	59.6-144		%REC	59169	1	6/23/2005 5:54 AM

Qualifiers: * Value exceeds Maximum Contaminant Level
BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
N Analyte not NELAC certified
B Analyte detected in the associated Method Blank

E Estimated (Value above quantitation range)
S Surrogate Recovery outside accepted recovery limits
Narr See Case Narrative
NC Not Confirmed

Analytical Environmental Services, Inc.

Date: 23-Sep-05

CLIENT: Environmental Strategies Corporation**Client Sample ID:** MW-4**Project:** NL/Atlanta, GA**Collection Date:** 6/19/2005 10:55:00 AM**Lab ID:** 0506948-002**Matrix:** GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
METALS, TOTAL			SW6010B		(SW3010A)		Analyst: BB
Antimony	BRL	0.0200		mg/L	59043	1	6/23/2005 6:38 PM
Arsenic	BRL	0.0500		mg/L	59043	1	6/23/2005 6:38 PM
Cadmium	BRL	0.0050		mg/L	59043	1	6/23/2005 6:38 PM
Cobalt	BRL	0.0200		mg/L	59043	1	6/23/2005 6:38 PM
Copper	BRL	0.0100		mg/L	59043	1	6/23/2005 6:38 PM
Lead	BRL	0.0100		mg/L	59043	1	6/23/2005 6:38 PM
Selenium	BRL	0.0200		mg/L	59043	1	6/23/2005 6:38 PM
Silver	BRL	0.0100		mg/L	59043	1	6/23/2005 6:38 PM
Thallium	BRL	0.0200		mg/L	59043	1	6/23/2005 6:38 PM
Zinc	BRL	0.0200		mg/L	59043	1	6/23/2005 6:38 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- BRL Below Reporting Limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated Method Blank

- E Estimated (Value above quantitation range)
- S Surrogate Recovery outside accepted recovery limits
- Narr See Case Narrative
- NC Not Confirmed

Analytical Environmental Services, Inc.

Date: 23-Sep-05

CLIENT: Environmental Strategies Corporation
Project: NL/Atlanta, GA
Lab ID: 0506948-003

Client Sample ID: MW-5
Collection Date: 6/19/2005 1:51:00 PM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
METALS, TOTAL							
		SW6010B			(SW3010A)		Analyst: BB
Antimony	BRL	0.0200		mg/L	59043	1	6/23/2005 6:53 PM
Arsenic	BRL	0.0500		mg/L	59043	1	6/23/2005 6:53 PM
Cadmium	BRL	0.0050		mg/L	59043	1	6/23/2005 6:53 PM
Cobalt	BRL	0.0200		mg/L	59043	1	6/23/2005 6:53 PM
Copper	0.0292	0.0100		mg/L	59043	1	6/23/2005 6:53 PM
Lead	0.0651	0.0100		mg/L	59043	1	6/23/2005 6:53 PM
Selenium	BRL	0.0200		mg/L	59043	1	6/23/2005 6:53 PM
Silver	BRL	0.0100		mg/L	59043	1	6/23/2005 6:53 PM
Thallium	BRL	0.0200		mg/L	59043	1	6/23/2005 6:53 PM
Zinc	0.0376	0.0200		mg/L	59043	1	6/23/2005 6:53 PM
POLYAROMATIC HYDROCARBONS							
		SW8270C			(SW3535)		Analyst: JMZ
Naphthalene	BRL	10		µg/L	59008	1	6/22/2005 12:26 PM
Acenaphthylene	BRL	10		µg/L	59008	1	6/22/2005 12:26 PM
1-Methylnaphthalene	BRL	10		µg/L	59008	1	6/22/2005 12:26 PM
2-Methylnaphthalene	BRL	10		µg/L	59008	1	6/22/2005 12:26 PM
Acenaphthene	BRL	10		µg/L	59008	1	6/22/2005 12:26 PM
Fluorene	BRL	10		µg/L	59008	1	6/22/2005 12:26 PM
Phenanthrene	BRL	10		µg/L	59008	1	6/22/2005 12:26 PM
Anthracene	BRL	10		µg/L	59008	1	6/22/2005 12:26 PM
Fluoranthene	BRL	10		µg/L	59008	1	6/22/2005 12:26 PM
Pyrene	BRL	10		µg/L	59008	1	6/22/2005 12:26 PM
Benz(a)anthracene	BRL	10		µg/L	59008	1	6/22/2005 12:26 PM
Chrysene	BRL	10		µg/L	59008	1	6/22/2005 12:26 PM
Benzo(b)fluoranthene	BRL	10		µg/L	59008	1	6/22/2005 12:26 PM
Benzo(k)fluoranthene	BRL	10		µg/L	59008	1	6/22/2005 12:26 PM
Benzo(a)pyrene	BRL	10		µg/L	59008	1	6/22/2005 12:26 PM
Dibenz(a,h)anthracene	BRL	10		µg/L	59008	1	6/22/2005 12:26 PM
Benzo(g,h,i)perylene	BRL	10		µg/L	59008	1	6/22/2005 12:26 PM
Indeno(1,2,3-cd)pyrene	BRL	10		µg/L	59008	1	6/22/2005 12:26 PM
Surr: Nitrobenzene-d5	71.8	26.3-132		%REC	59008	1	6/22/2005 12:26 PM
Surr: 2-Fluorobiphenyl	81.1	46.6-117		%REC	59008	1	6/22/2005 12:26 PM
Surr: 4-Terphenyl-d14	93.6	34-135		%REC	59008	1	6/22/2005 12:26 PM
VOLATILE ORGANICS							
		SW8260B			(SW5030B)		Analyst: TMP
Benzene	BRL	1.0		µg/L	59169	1	6/23/2005 7:14 AM
Toluene	BRL	1.0		µg/L	59169	1	6/23/2005 7:14 AM
Ethylbenzene	BRL	1.0		µg/L	59169	1	6/23/2005 7:14 AM
m,p-Xylene	BRL	1.0		µg/L	59169	1	6/23/2005 7:14 AM
o-Xylene	BRL	1.0		µg/L	59169	1	6/23/2005 7:14 AM
Surr: 4-Bromofluorobenzene	130	59.6-144		%REC	59169	1	6/23/2005 7:14 AM

Qualifiers: * Value exceeds Maximum Contaminant Level
BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
N Analyte not NELAC certified
B Analyte detected in the associated Method Blank

E Estimated (Value above quantitation range)
S Surrogate Recovery outside accepted recovery limits
Narr See Case Narrative
NC Not Confirmed

Analytical Environmental Services, Inc.

Date: 23-Sep-05

CLIENT: Environmental Strategies Corporation
Project: NL/Atlanta, GA
Lab ID: 0506948-004

Client Sample ID: MW-1
Collection Date: 6/19/2005 3:40:00 PM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
METALS, TOTAL							
		SW6010B			(SW3010A)		Analyst: BB
Antimony	BRL	0.0200		mg/L	59043	1	6/23/2005 6:57 PM
Arsenic	BRL	0.0500		mg/L	59043	1	6/23/2005 6:57 PM
Cadmium	BRL	0.0050		mg/L	59043	1	6/23/2005 6:57 PM
Cobalt	0.0282	0.0200		mg/L	59043	1	6/23/2005 6:57 PM
Copper	BRL	0.0100		mg/L	59043	1	6/23/2005 6:57 PM
Lead	0.107	0.0100		mg/L	59043	1	6/23/2005 6:57 PM
Selenium	BRL	0.0200		mg/L	59043	1	6/23/2005 6:57 PM
Silver	BRL	0.0100		mg/L	59043	1	6/23/2005 6:57 PM
Thallium	BRL	0.0200		mg/L	59043	1	6/23/2005 6:57 PM
Zinc	0.0262	0.0200		mg/L	59043	1	6/23/2005 6:57 PM
POLYAROMATIC HYDROCARBONS							
		SW8270C			(SW3535)		Analyst: JMZ
Naphthalene	31	10		µg/L	59008	1	6/22/2005 12:53 PM
Acenaphthylene	BRL	10		µg/L	59008	1	6/22/2005 12:53 PM
1-Methylnaphthalene	BRL	10		µg/L	59008	1	6/22/2005 12:53 PM
2-Methylnaphthalene	BRL	10		µg/L	59008	1	6/22/2005 12:53 PM
Acenaphthene	BRL	10		µg/L	59008	1	6/22/2005 12:53 PM
Fluorene	BRL	10		µg/L	59008	1	6/22/2005 12:53 PM
Phenanthrene	BRL	10		µg/L	59008	1	6/22/2005 12:53 PM
Anthracene	BRL	10		µg/L	59008	1	6/22/2005 12:53 PM
Fluoranthene	BRL	10		µg/L	59008	1	6/22/2005 12:53 PM
Pyrene	BRL	10		µg/L	59008	1	6/22/2005 12:53 PM
Benz(a)anthracene	BRL	10		µg/L	59008	1	6/22/2005 12:53 PM
Chrysene	BRL	10		µg/L	59008	1	6/22/2005 12:53 PM
Benzo(b)fluoranthene	BRL	10		µg/L	59008	1	6/22/2005 12:53 PM
Benzo(k)fluoranthene	BRL	10		µg/L	59008	1	6/22/2005 12:53 PM
Benzo(a)pyrene	BRL	10		µg/L	59008	1	6/22/2005 12:53 PM
Dibenz(a,h)anthracene	BRL	10		µg/L	59008	1	6/22/2005 12:53 PM
Benzo(g,h,i)perylene	BRL	10		µg/L	59008	1	6/22/2005 12:53 PM
Indeno(1,2,3-cd)pyrene	BRL	10		µg/L	59008	1	6/22/2005 12:53 PM
Surr: Nitrobenzene-d5	69.8	26.3-132		%REC	59008	1	6/22/2005 12:53 PM
Surr: 2-Fluorobiphenyl	71.0	46.6-117		%REC	59008	1	6/22/2005 12:53 PM
Surr: 4-Terphenyl-d14	86.4	34-135		%REC	59008	1	6/22/2005 12:53 PM
VOLATILE ORGANICS							
		SW8260B			(SW5030B)		Analyst: TMP
Benzene	51	1.0		µg/L	59169	1	6/23/2005 6:48 AM
Toluene	14	1.0		µg/L	59169	1	6/23/2005 6:48 AM
Ethylbenzene	29	1.0		µg/L	59169	1	6/23/2005 6:48 AM
m,p-Xylene	210	1.0		µg/L	59169	1	6/23/2005 6:48 AM
o-Xylene	20	1.0		µg/L	59169	1	6/23/2005 6:48 AM
Surr: 4-Bromofluorobenzene	135	59.6-144		%REC	59169	1	6/23/2005 6:48 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- BRL Below Reporting Limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated Method Blank

- E Estimated (Value above quantitation range)
- S Surrogate Recovery outside accepted recovery limits
- Narr See Case Narrative
- NC Not Confirmed

Analytical Environmental Services, Inc.

Date: 23-Sep-05

CLIENT: Environmental Strategies Corporation

Client Sample ID: MW-3

Project: NL/Atlanta, GA

Collection Date: 6/19/2005 4:40:00 PM

Lab ID: 0506948-005

Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
METALS, TOTAL			SW6010B		(SW3010A)		Analyst: BB
Antimony	BRL	0.0200		mg/L	59043	1	6/23/2005 7:00 PM
Arsenic	BRL	0.0500		mg/L	59043	1	6/23/2005 7:00 PM
Cadmium	BRL	0.0050		mg/L	59043	1	6/23/2005 7:00 PM
Cobalt	BRL	0.0200		mg/L	59043	1	6/23/2005 7:00 PM
Copper	BRL	0.0100		mg/L	59043	1	6/23/2005 7:00 PM
Lead	BRL	0.0100		mg/L	59043	1	6/23/2005 7:00 PM
Selenium	BRL	0.0200		mg/L	59043	1	6/23/2005 7:00 PM
Silver	BRL	0.0100		mg/L	59043	1	6/23/2005 7:00 PM
Thallium	BRL	0.0200		mg/L	59043	1	6/23/2005 7:00 PM
Zinc	0.590	0.0200		mg/L	59043	1	6/23/2005 7:00 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
N Analyte not NELAC certified
B Analyte detected in the associated Method Blank

E Estimated (Value above quantitation range)
S Surrogate Recovery outside accepted recovery limits
Narr See Case Narrative
NC Not Confirmed

Analytical Environmental Services, Inc.

Date: 23-Sep-05

CLIENT: Environmental Strategies Corporation

Client Sample ID: MW-2

Project: NL/Atlanta, GA

Collection Date: 6/19/2005 5:55:00 PM

Lab ID: 0506948-006

Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
METALS, TOTAL			SW6010B		(SW3010A)		Analyst: BB
Antimony	BRL	0.0200		mg/L	59043	1	6/23/2005 7:04 PM
Arsenic	BRL	0.0500		mg/L	59043	1	6/23/2005 7:04 PM
Cadmium	0.0233	0.0050		mg/L	59043	1	6/23/2005 7:04 PM
Cobalt	0.0397	0.0200		mg/L	59043	1	6/23/2005 7:04 PM
Copper	0.0216	0.0100		mg/L	59043	1	6/23/2005 7:04 PM
Lead	0.0201	0.0100		mg/L	59043	1	6/23/2005 7:04 PM
Selenium	BRL	0.0200		mg/L	59043	1	6/23/2005 7:04 PM
Silver	BRL	0.0100		mg/L	59043	1	6/23/2005 7:04 PM
Thallium	BRL	0.0200		mg/L	59043	1	6/23/2005 7:04 PM
Zinc	0.710	0.0200		mg/L	59043	1	6/23/2005 7:04 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
N Analyte not NELAC certified
B Analyte detected in the associated Method Blank

E Estimated (Value above quantitation range)
S Surrogate Recovery outside accepted recovery limits
Narr See Case Narrative
NC Not Confirmed

Analytical Environmental Services, Inc.

Date: 23-Sep-05

CLIENT: Environmental Strategies Corporation**Client Sample ID:** MW-8**Project:** NL/Atlanta, GA**Collection Date:** 6/19/2005 6:20:00 PM**Lab ID:** 0506948-007**Matrix:** GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
METALS, TOTAL			SW6010B		(SW3010A)		Analyst: BB
Antimony	BRL	0.0200		mg/L	59043	1	6/23/2005 7:08 PM
Arsenic	BRL	0.0500		mg/L	59043	1	6/23/2005 7:08 PM
Cadmium	0.0068	0.0050		mg/L	59043	1	6/23/2005 7:08 PM
Cobalt	0.338	0.0200		mg/L	59043	1	6/23/2005 7:08 PM
Copper	0.0223	0.0100		mg/L	59043	1	6/23/2005 7:08 PM
Lead	1.48	0.0100		mg/L	59043	1	6/23/2005 7:08 PM
Selenium	BRL	0.0200		mg/L	59043	1	6/23/2005 7:08 PM
Silver	BRL	0.0100		mg/L	59043	1	6/23/2005 7:08 PM
Thallium	BRL	0.0200		mg/L	59043	1	6/23/2005 7:08 PM
Zinc	2.64	0.0200		mg/L	59043	1	6/23/2005 7:08 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
N Analyte not NELAC certified
B Analyte detected in the associated Method Blank

E Estimated (Value above quantitation range)
S Surrogate Recovery outside accepted recovery limits
Narr See Case Narrative
NC Not Confirmed

Analytical Environmental Services, Inc.

Date: 23-Sep-05

CLIENT: Environmental Strategies Corporation

Client Sample ID: MW-6

Project: NL/Atlanta, GA

Collection Date: 6/19/2005 6:58:00 PM

Lab ID: 0506948-008

Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
METALS, TOTAL							
		SW6010B			(SW3010A)		Analyst: BB
Antimony	BRL	0.0200		mg/L	59043	1	6/23/2005 7:12 PM
Arsenic	BRL	0.0500		mg/L	59043	1	6/23/2005 7:12 PM
Cadmium	BRL	0.0050		mg/L	59043	1	6/23/2005 7:12 PM
Cobalt	BRL	0.0200		mg/L	59043	1	6/23/2005 7:12 PM
Copper	BRL	0.0100		mg/L	59043	1	6/23/2005 7:12 PM
Lead	BRL	0.0100		mg/L	59043	1	6/23/2005 7:12 PM
Selenium	BRL	0.0200		mg/L	59043	1	6/23/2005 7:12 PM
Silver	BRL	0.0100		mg/L	59043	1	6/23/2005 7:12 PM
Thallium	BRL	0.0200		mg/L	59043	1	6/23/2005 7:12 PM
Zinc	0.0317	0.0200		mg/L	59043	1	6/23/2005 7:12 PM
POLYAROMATIC HYDROCARBONS							
		SW8270C			(SW3535)		Analyst: JMZ
Naphthalene	280	100		µg/L	59008	10	6/22/2005 6:55 PM
Acenaphthylene	BRL	10		µg/L	59008	1	6/22/2005 1:21 PM
1-Methylnaphthalene	66	10		µg/L	59008	1	6/22/2005 1:21 PM
2-Methylnaphthalene	120	10		µg/L	59008	1	6/22/2005 1:21 PM
Acenaphthene	BRL	10		µg/L	59008	1	6/22/2005 1:21 PM
Fluorene	BRL	10		µg/L	59008	1	6/22/2005 1:21 PM
Phenanthrene	BRL	10		µg/L	59008	1	6/22/2005 1:21 PM
Anthracene	BRL	10		µg/L	59008	1	6/22/2005 1:21 PM
Fluoranthene	BRL	10		µg/L	59008	1	6/22/2005 1:21 PM
Pyrene	BRL	10		µg/L	59008	1	6/22/2005 1:21 PM
Benz(a)anthracene	BRL	10		µg/L	59008	1	6/22/2005 1:21 PM
Chrysene	BRL	10		µg/L	59008	1	6/22/2005 1:21 PM
Benzo(b)fluoranthene	BRL	10		µg/L	59008	1	6/22/2005 1:21 PM
Benzo(k)fluoranthene	BRL	10		µg/L	59008	1	6/22/2005 1:21 PM
Benzo(a)pyrene	BRL	10		µg/L	59008	1	6/22/2005 1:21 PM
Dibenz(a,h)anthracene	BRL	10		µg/L	59008	1	6/22/2005 1:21 PM
Benzo(g,h,i)perylene	BRL	10		µg/L	59008	1	6/22/2005 1:21 PM
Indeno(1,2,3-cd)pyrene	BRL	10		µg/L	59008	1	6/22/2005 1:21 PM
Surr: Nitrobenzene-d5	56.9	26.3-132		%REC	59008	1	6/22/2005 1:21 PM
Surr: 2-Fluorobiphenyl	81.9	46.6-117		%REC	59008	1	6/22/2005 1:21 PM
Surr: 4-Terphenyl-d14	92.6	34-135		%REC	59008	1	6/22/2005 1:21 PM
VOLATILE ORGANICS							
		SW8260B			(SW5030B)		Analyst: TMP
Benzene	2600	50		µg/L	59169	50	6/23/2005 12:34 AM
Toluene	4800	50		µg/L	59169	50	6/23/2005 12:34 AM
Ethylbenzene	1600	50		µg/L	59169	50	6/23/2005 12:34 AM
m,p-Xylene	4800	50		µg/L	59169	50	6/23/2005 12:34 AM
o-Xylene	1700	50		µg/L	59169	50	6/23/2005 12:34 AM
Surr: 4-Bromofluorobenzene	122	59.6-144		%REC	59169	50	6/23/2005 12:34 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- BRL Below Reporting Limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated Method Blank

- E Estimated (Value above quantitation range)
- S Surrogate Recovery outside accepted recovery limits
- Narr See Case Narrative
- NC Not Confirmed

Analytical Environmental Services, Inc.

Date: 23-Sep-05

CLIENT: Environmental Strategies Corporation

Client Sample ID: TRIP BLANK

Project: NL/Atlanta, GA

Collection Date: 6/19/2005

Lab ID: 0506948-009

Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
VOLATILE ORGANICS			SW8260B		(SW5030B)		Analyst: TMP
Benzene	BRL	1.0		µg/L	59169	1	6/23/2005 3:14 AM
Toluene	BRL	1.0		µg/L	59169	1	6/23/2005 3:14 AM
Ethylbenzene	BRL	1.0		µg/L	59169	1	6/23/2005 3:14 AM
m,p-Xylene	BRL	1.0		µg/L	59169	1	6/23/2005 3:14 AM
o-Xylene	BRL	1.0		µg/L	59169	1	6/23/2005 3:14 AM
Surr: 4-Bromofluorobenzene	130	59.6-144		%REC	59169	1	6/23/2005 3:14 AM

Qualifiers: * Value exceeds Maximum Contaminant Level
BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
N Analyte not NELAC certified
B Analyte detected in the associated Method Blank

E Estimated (Value above quantitation range)
S Surrogate Recovery outside accepted recovery limits
Narr See Case Narrative
NC Not Confirmed

Analytical Environmental Services, Inc.

Date: 23-Sep-05

CLIENT: Environmental Strategies Corporation
Project: NL/Atlanta, GA
Lab ID: 0506948-010

Client Sample ID: MW-D
Collection Date: 6/19/2005 7:30:00 PM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
METALS, TOTAL							
		SW6010B			(SW3010A)		Analyst: BB
Antimony	BRL	0.0200		mg/L	59043	1	6/23/2005 6:23 PM
Arsenic	BRL	0.0500		mg/L	59043	1	6/23/2005 6:23 PM
Cadmium	BRL	0.0050		mg/L	59043	1	6/23/2005 6:23 PM
Cobalt	BRL	0.0200		mg/L	59043	1	6/23/2005 6:23 PM
Copper	BRL	0.0100		mg/L	59043	1	6/23/2005 6:23 PM
Lead	BRL	0.0100		mg/L	59043	1	6/23/2005 6:23 PM
Selenium	BRL	0.0200		mg/L	59043	1	6/23/2005 6:23 PM
Silver	BRL	0.0100		mg/L	59043	1	6/23/2005 6:23 PM
Thallium	BRL	0.0200		mg/L	59043	1	6/23/2005 6:23 PM
Zinc	0.0306	0.0200		mg/L	59043	1	6/23/2005 6:23 PM
POLYAROMATIC HYDROCARBONS							
		SW8270C			(SW3535)		Analyst: JMZ
Naphthalene	320	100		µg/L	59008	10	6/22/2005 7:22 PM
Acenaphthylene	BRL	10		µg/L	59008	1	6/22/2005 1:48 PM
1-Methylnaphthalene	72	10		µg/L	59008	1	6/22/2005 1:48 PM
2-Methylnaphthalene	140	10		µg/L	59008	1	6/22/2005 1:48 PM
Acenaphthene	BRL	10		µg/L	59008	1	6/22/2005 1:48 PM
Fluorene	BRL	10		µg/L	59008	1	6/22/2005 1:48 PM
Phenanthrene	BRL	10		µg/L	59008	1	6/22/2005 1:48 PM
Anthracene	BRL	10		µg/L	59008	1	6/22/2005 1:48 PM
Fluoranthene	BRL	10		µg/L	59008	1	6/22/2005 1:48 PM
Pyrene	BRL	10		µg/L	59008	1	6/22/2005 1:48 PM
Benz(a)anthracene	BRL	10		µg/L	59008	1	6/22/2005 1:48 PM
Chrysene	BRL	10		µg/L	59008	1	6/22/2005 1:48 PM
Benzo(b)fluoranthene	BRL	10		µg/L	59008	1	6/22/2005 1:48 PM
Benzo(k)fluoranthene	BRL	10		µg/L	59008	1	6/22/2005 1:48 PM
Benzo(a)pyrene	BRL	10		µg/L	59008	1	6/22/2005 1:48 PM
Dibenz(a,h)anthracene	BRL	10		µg/L	59008	1	6/22/2005 1:48 PM
Benzo(g,h,i)perylene	BRL	10		µg/L	59008	1	6/22/2005 1:48 PM
Indeno(1,2,3-cd)pyrene	BRL	10		µg/L	59008	1	6/22/2005 1:48 PM
Surr: Nitrobenzene-d5	45.8	26.3-132		%REC	59008	1	6/22/2005 1:48 PM
Surr: 2-Fluorobiphenyl	81.6	46.6-117		%REC	59008	1	6/22/2005 1:48 PM
Surr: 4-Terphenyl-d14	96.2	34-135		%REC	59008	1	6/22/2005 1:48 PM
VOLATILE ORGANICS							
		SW8260B			(SW5030B)		Analyst: TMP
Benzene	2500	50		µg/L	59169	50	6/23/2005 1:00 AM
Toluene	4600	50		µg/L	59169	50	6/23/2005 1:00 AM
Ethylbenzene	1500	50		µg/L	59169	50	6/23/2005 1:00 AM
m,p-Xylene	4700	50		µg/L	59169	50	6/23/2005 1:00 AM
o-Xylene	1700	50		µg/L	59169	50	6/23/2005 1:00 AM
Surr: 4-Bromofluorobenzene	126	59.6-144		%REC	59169	50	6/23/2005 1:00 AM

Qualifiers: * Value exceeds Maximum Contaminant Level
 BRL Below Reporting Limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated Method Blank

E Estimated (Value above quantitation range)
 S Surrogate Recovery outside accepted recovery limits
 Narr See Case Narrative
 NC Not Confirmed

Analytical Environmental Services, Inc.

Date: 23-Sep-05

CLIENT: Environmental Strategies Corporation
Work Order: 0506948
Project: NL/Atlanta, GA

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010B_W_T

Sample ID	MB-59043	SampType: MBLK	TestCode: 6010B_W_T	Units: mg/L	Prep Date: 6/21/2005	RunNo: 67649						
Client ID:		Batch ID: 59043	TestNo: SW6010B		Analysis Date: 6/23/2005	SeqNo: 1331105						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Antimony	BRL	0.0200									
Arsenic	BRL	0.0500									
Cadmium	BRL	0.00500									
Cobalt	BRL	0.0200									
Copper	BRL	0.0100									
Lead	BRL	0.0100									
Selenium	BRL	0.0200									
Silver	BRL	0.0100									
Thallium	BRL	0.0200									
Zinc	BRL	0.0200									

Sample ID	LCS-59043	SampType:	LCS	TestCode:	6010B_W_T	Units:	mg/L	Prep Date:	6/21/2005	RunNo:	67649			
Client ID:		Batch ID:	59043	TestNo:	SW6010B			Analysis Date:	6/23/2005	SeqNo:	1331104			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Antimony	1.08	0.0200	1	0	108	85	115	0	0		
Arsenic	1.066	0.0500	1	0	107	85	115	0	0		
Cadmium	1.038	0.00500	1	0	104	85	115	0	0		
Cobalt	1.044	0.0200	1	0	104	85	115	0	0		
Copper	1.036	0.0100	1	0	104	85	115	0	0		
Lead	1.038	0.0100	1	0	104	85	115	0	0		
Selenium	1.031	0.0200	1	0	103	85	115	0	0		
Silver	0.1049	0.0100	0.1	0	105	85	115	0	0		
Thallium	1.028	0.0200	1	0	103	85	115	0	0		
Zinc	1.041	0.0200	1	0	104	85	115	0	0		

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Environmental Strategies Corporation
Work Order: 0506948
Project: NL/Atlanta, GA

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010B_W_T

Sample ID	0506948-010CMS	SampType:	MS	TestCode:	6010B_W_T	Units:	mg/L	Prep Date:	6/21/2005	RunNo:	67649
Client ID:	MW-D	Batch ID:	59043	TestNo:	SW6010B			Analysis Date:	6/23/2005	SeqNo:	1331107

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	1.083	0.0200	1	0	108	75	125	0	0	0	
Arsenic	1.075	0.0500	1	0	108	75	125	0	0	0	
Cadmium	1.03	0.00500	1	0	103	75	125	0	0	0	
Cobalt	1.047	0.0200	1	0.01459	103	75	125	0	0	0	
Copper	1.027	0.0100	1	0.002018	102	75	125	0	0	0	
Lead	1.028	0.0100	1	0.003695	102	75	125	0	0	0	
Selenium	1.032	0.0200	1	0	103	75	125	0	0	0	
Silver	0.1032	0.0100	0.1	0	103	75	125	0	0	0	
Thallium	1.013	0.0200	1	0	101	75	125	0	0	0	
Zinc	1.059	0.0200	1	0.03055	103	75	125	0	0	0	

Sample ID	0506948-010CMSD	SampType:	MSD	TestCode:	6010B_W_T	Units:	mg/L	Prep Date:	6/21/2005	RunNo:	67649
Client ID:	MW-D	Batch ID:	59043	TestNo:	SW6010B			Analysis Date:	6/23/2005	SeqNo:	1331108

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	1.089	0.0200	1	0	109	75	125	1.083	0.624	20	
Arsenic	1.082	0.0500	1	0	108	75	125	1.075	0.656	20	
Cadmium	1.037	0.00500	1	0	104	75	125	1.03	0.676	20	
Cobalt	1.053	0.0200	1	0.01459	104	75	125	1.047	0.608	20	
Copper	1.026	0.0100	1	0.002018	102	75	125	1.027	0.0477	20	
Lead	1.033	0.0100	1	0.003695	103	75	125	1.028	0.489	20	
Selenium	1.041	0.0200	1	0	104	75	125	1.032	0.868	20	
Silver	0.104	0.0100	0.1	0	104	75	125	0.1032	0.770	20	
Thallium	1.021	0.0200	1	0	102	75	125	1.013	0.788	20	
Zinc	1.069	0.0200	1	0.03055	104	75	125	1.059	0.944	20	

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H		Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R		RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Environmental Strategies Corporation
Work Order: 0506948
Project: NL/Atlanta, GA

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_PAH_W

Sample ID	MB-59008	SampType:	MBLK	TestCode:	8270_PAH_W	Units:	µg/L	Prep Date:	6/20/2005	RunNo:	67398
Client ID:		Batch ID:	59008	TestNo:	SW8270C			Analysis Date:	6/20/2005	SeqNo:	1326180
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1-Methylnaphthalene	BRL	10									
2-Methylnaphthalene	BRL	10									
Acenaphthene	BRL	10									
Acenaphthylene	BRL	10									
Anthracene	BRL	10									
Benz(a)anthracene	BRL	10									
Benzo(a)pyrene	BRL	10									
Benzo(b)fluoranthene	BRL	10									
Benzo(g,h,i)perylene	BRL	10									
Benzo(k)fluoranthene	BRL	10									
Chrysene	BRL	10									
Dibenz(a,h)anthracene	BRL	10									
Fluoranthene	BRL	10									
Fluorene	BRL	10									
Indeno(1,2,3-cd)pyrene	BRL	10									
Naphthalene	BRL	10									
Phenanthrene	BRL	10									
Pyrene	BRL	10									
Surr: 2-Fluorobiphenyl	41.69	0	50	0	83.4	46.6	117	0	0	0	
Surr: 4-Terphenyl-d14	43.91	0	50	0	87.8	34	135	0	0	0	
Surr: Nitrobenzene-d5	42.34	0	50	0	84.7	26.3	132	0	0	0	

Sample ID	LCS-59008	SampType:	LCS	TestCode:	8270_PAH_W	Units:	µg/L	Prep Date:	6/20/2005	RunNo:	67398
Client ID:		Batch ID:	59008	TestNo:	SW8270C			Analysis Date:	6/20/2005	SeqNo:	1326181
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	42.82	10	50	0	85.6	67.4	120	0	0	0	
Acenaphthylene	54.67	10	50	0	109	64.8	122	0	0	0	
Anthracene	44.59	10	50	0	89.2	67.3	130	0	0	0	
Benz(a)anthracene	43.35	10	50	0	86.7	69.8	120	0	0	0	

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Environmental Strategies Corporation
Work Order: 0506948
Project: NL/Atlanta, GA

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_PAH_W

Sample ID	LCS-59008	Sample Type:	LCS	TestCode:	8270_PAH_W	Units:	µg/L	Prep Date:	6/20/2005	RunNo:	67398
Client ID:		Batch ID:	59008	TestNo:	SW8270C			Analysis Date:	6/20/2005	SeqNo:	1326181
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(a)pyrene	47.21	10	50	0	94.4	56.8	127	0	0	0	
Benzo(b)fluoranthene	45.43	10	50	0	90.9	52.1	127	0	0	0	
Benzo(g,h,i)perylene	48.93	10	50	0	97.9	42.8	144	0	0	0	
Benzo(k)fluoranthene	52.32	10	50	0	105	49.4	137	0	0	0	
Chrysene	45.19	10	50	0	90.4	70.6	120	0	0	0	
Dibenz(a,h)anthracene	46.93	10	50	0	93.9	47.7	138	0	0	0	
Fluoranthene	42.89	10	50	0	85.8	69.6	120	0	0	0	
Fluorene	44.68	10	50	0	89.4	68.6	120	0	0	0	
Indeno(1,2,3-cd)pyrene	42.86	10	50	0	85.7	52.6	134	0	0	0	
Naphthalene	40.15	10	50	0	80.3	62.6	120	0	0	0	
Phenanthrene	44.86	10	50	0	89.7	70.1	120	0	0	0	
Pyrene	44.81	10	50	0	89.6	66.6	123	0	0	0	
Surr: 2-Fluorobiphenyl	43.23	0	50	0	86.5	46.6	117	0	0	0	
Surr: 4-Terphenyl-d14	44.97	0	50	0	89.9	34	135	0	0	0	
Surr: Nitrobenzene-d5	43.17	0	50	0	86.3	26.3	132	0	0	0	

Sample ID	0506909-001CMS	Sample Type:	MS	TestCode:	8270_PAH_W	Units:	µg/L	Prep Date:	6/20/2005	RunNo:	67398
Client ID:		Batch ID:	59008	TestNo:	SW8270C			Analysis Date:	6/20/2005	SeqNo:	1326184
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	27.45	10	50	0	54.9	54.2	120	0	0	0	
Acenaphthylene	34.72	10	50	0	69.4	55.9	123	0	0	0	
Anthracene	42.07	10	50	0	84.1	62	124	0	0	0	
Benz(a)anthracene	40.37	10	50	0	80.7	55.3	120	0	0	0	
Benzo(a)pyrene	44.45	10	50	0	88.9	42	128	0	0	0	
Benzo(b)fluoranthene	43.3	10	50	0	86.6	40.4	126	0	0	0	
Benzo(g,h,i)perylene	43.73	10	50	0	87.5	27.5	146	0	0	0	
Benzo(k)fluoranthene	48.39	10	50	0	96.8	39.2	132	0	0	0	
Chrysene	42.57	10	50	0	85.1	54.7	120	0	0	0	
Dibenz(a,h)anthracene	44.51	10	50	0	89	32.6	141	0	0	0	

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits
BRL Below Reporting Limit
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
N Analyte not NELAC certified

CLIENT: Environmental Strategies Corporation
Work Order: 0506948
Project: NL/Atlanta, GA

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_PAH_W

Sample ID	0506909-001CMS	SampType: MS	TestCode: 8270_PAH_W	Units: µg/L	Prep Date: 6/20/2005	RunNo: 67398					
Client ID:		Batch ID: 59008	TestNo: SW8270C		Analysis Date: 6/20/2005	SeqNo: 1326184					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Fluoranthene	42.31	10	50	0	84.6	61.2	120	0	0	0	
Fluorene	31.33	10	50	0	62.7	59.1	120	0	0	0	
Indeno(1,2,3-cd)pyrene	38	10	50	0	76	35.3	140	0	0	0	
Naphthalene	30.11	10	50	0	60.2	39.4	120	0	0	0	
Phenanthrene	42.46	10	50	0	84.9	62.1	120	0	0	0	
Pyrene	42.89	10	50	0	85.8	47.9	131	0	0	0	
Surr: 2-Fluorobiphenyl	24.58	0	50	0	49.2	46.6	117	0	0	0	
Surr: 4-Terphenyl-d14	38.04	0	50	0	76.1	34	135	0	0	0	
Surr: Nitrobenzene-d5	35.23	0	50	0	70.5	26.3	132	0	0	0	

Sample ID	0506909-001CMSD	SampType: MSD	TestCode: 8270_PAH_W	Units: µg/L	Prep Date: 6/20/2005	RunNo: 67398					
Client ID:		Batch ID: 59008	TestNo: SW8270C		Analysis Date: 6/20/2005	SeqNo: 1326185					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	31.95	10	50	0	63.9	54.2	120	27.45	15.2	29	
Acenaphthylene	39.27	10	50	0	78.5	55.9	123	34.72	12.3	19.1	
Anthracene	44.37	10	50	0	88.7	62	124	42.07	5.32	19.3	
Benz(a)anthracene	40.03	10	50	0	80.1	55.3	120	40.37	0.846	21.7	
Benzo(a)pyrene	43.75	10	50	0	87.5	42	128	44.45	1.59	24.1	
Benzo(b)fluoranthene	44.66	10	50	0	89.3	40.4	126	43.3	3.09	24.1	
Benzo(g,h,i)perylene	42.51	10	50	0	85	27.5	146	43.73	2.83	27.9	
Benzo(k)fluoranthene	48.36	10	50	0	96.7	39.2	132	48.39	0.0620	24.9	
Chrysene	41.67	10	50	0	83.3	54.7	120	42.57	2.14	22.2	
Dibenz(a,h)anthracene	43.99	10	50	0	88	32.6	141	44.51	1.18	27.4	
Fluoranthene	42.82	10	50	0	85.6	61.2	120	42.31	1.20	18.7	
Fluorene	34.1	10	50	0	68.2	59.1	120	31.33	8.47	19.5	
Indeno(1,2,3-cd)pyrene	37.33	10	50	0	74.7	35.3	140	38	1.78	26.6	
Naphthalene	37.1	10	50	0	74.2	39.4	120	30.11	20.8	21	
Phenanthrene	44.04	10	50	0	88.1	62.1	120	42.46	3.65	20	
Pyrene	43.18	10	50	0	86.4	47.9	131	42.89	0.674	20	

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H		Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R		RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Environmental Strategies Corporation
Work Order: 0506948
Project: NL/Atlanta, GA

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_PAH_W

Sample ID	0506909-001CMSD	SampType:	MSD	TestCode:	8270_PAH_W	Units:	µg/L	Prep Date:	6/20/2005	RunNo:	67398
Client ID:		Batch ID:	59008	TestNo:	SW8270C			Analysis Date:	6/20/2005	SeqNo:	1326185
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	29.89	0	50	0	59.8	46.6	117	24.58	0	0	0
Surr: 4-Terphenyl-d14	38.03	0	50	0	76.1	34	135	38.04	0	0	0
Surr: Nitrobenzene-d5	43.1	0	50	0	86.2	26.3	132	35.23	0	0	0

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H		Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R		RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Environmental Strategies Corporation
Work Order: 0506948
Project: NL/Atlanta, GA

ANALYTICAL QC SUMMARY REPORT

TestCode: BTEX_W-MS

Sample ID	MB-59169	SampType:	MBLK	TestCode:	BTEX_W-MS	Units:	µg/L	Prep Date:	6/22/2005	RunNo:	67551
Client ID:		Batch ID:	59169	TestNo:	SW8260B			Analysis Date:	6/22/2005	SeqNo:	1329402
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	BRL	1.0									
Ethylbenzene	BRL	1.0									
m,p-Xylene	BRL	1.0									
o-Xylene	BRL	1.0									
Toluene	BRL	1.0									
Surr: 4-Bromofluorobenzene	63.11	0	50		126	59.6	144	0		0	

Sample ID	LCS-59169	SampType:	LCS	TestCode:	BTEX_W-MS	Units:	µg/L	Prep Date:	6/22/2005	RunNo:	67551
Client ID:		Batch ID:	59169	TestNo:	SW8260B			Analysis Date:	6/22/2005	SeqNo:	1329405
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	57.98	1.0	50	0	116	74.9	126	0		0	
Ethylbenzene	47.04	1.0	50	0	94.1	85.1	126	0		0	
m,p-Xylene	94.95	1.0	100	0	95	84.5	128	0		0	
o-Xylene	46.95	1.0	50	0	93.9	81.7	129	0		0	
Toluene	45.9	1.0	50	0	91.8	81.3	125	0		0	
Surr: 4-Bromofluorobenzene	63.61	0	50	0	127	59.6	144	0		0	

Sample ID	0506967-004AMS	SampType:	MS	TestCode:	BTEX_W-MS	Units:	µg/L	Prep Date:	6/23/2005	RunNo:	67551
Client ID:		Batch ID:	59169	TestNo:	SW8260B			Analysis Date:	6/23/2005	SeqNo:	1329428
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	58.3	1.0	50	0	117	69.7	128	0		0	
Ethylbenzene	47.14	1.0	50	0	94.3	77	131	0		0	
m,p-Xylene	95.58	1.0	100	0	95.6	76.6	132	0		0	
o-Xylene	48.3	1.0	50	0	96.6	71.5	136	0		0	
Toluene	46.99	1.0	50	0	94	76.2	128	0		0	
Surr: 4-Bromofluorobenzene	64.15	0	50	0	128	59.6	144	0		0	

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H		Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R		RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Environmental Strategies Corporation
 Work Order: 0506948
 Project: NL/Atlanta, GA

ANALYTICAL QC SUMMARY REPORT

TestCode: BTEX_W-MS

Sample ID 0506967-004AMSD	SampType: MSD	TestCode: BTEX_W-MS	Units: µg/L	Prep Date: 6/22/2005	RunNo: 67551						
Client ID:	Batch ID: 59169	TestNo: SW8260B		Analysis Date: 6/23/2005	SeqNo: 1329430						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	56.87	1.0	50	0	114	69.7	128	58.3	2.48	20	
Ethylbenzene	46.57	1.0	50	0	93.1	77	131	47.14	1.22	20	
m,p-Xylene	92.89	1.0	100	0	92.9	76.6	132	95.58	2.85	20	
o-Xylene	46.92	1.0	50	0	93.8	71.5	136	48.3	2.90	20	
Toluene	45.61	1.0	50	0	91.2	76.2	128	46.99	2.98	20	
Surr: 4-Bromofluorobenzene	63.46	0	50	0	127	59.6	144	64.15	0	0	

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H		Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R		RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

June 02, 2006

GiGi Beaulieu
Environmental Strategies Corporation
11911 Freedom Drive
Reston, VA 20190

TEL: (978) 635-9600

FAX (978) 264-0537

RE: NL Atlanta

Dear GiGi Beaulieu:

Order No.: 0605G32

Analytical Environmental Services, Inc. received 13 samples on 5/26/2006 1:00:00 PM for the analyses presented in the following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative. Sample results are not dry weight corrected, unless if Pmoist analysis are requested on the chain of custody or other project specific arrangements have been made. AES' certifications are as follows:

-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water, effective 06/01/05-06/30/06.

-AIHA Certification number 505 for analysis of Industrial Hygiene samples (Organics, Inorganics), Paint Chips, Soil and Dust Wipes, effective until 02/01/07.

These results relate only to the items tested. This report may only be reproduced in full and contains 37 total pages (including cover letter).

If you have any questions regarding these test results, please feel free to call.

Sincerely,

James Forrest
Project Manager

0605932

Project Number: 127562/04		Site and Location: NL/Atlanta, GA		Matrices: S = Soil; Aq = Water A = Air; Bu = Bulk; W = Wipe Bi = Biota; OW = Oily Waste; O = Other		Requested Analyses		No. 038408	
Sampler's Name(s): Giselle Beaulieu		Date		Time		Matrix		Remarks	
Sampler's Signature(s): <i>GBeaulieu</i>		Date		Time		Matrix		Remarks	
Sample Identification:		Date		Time		Matrix		Remarks	
MW-4	5/23/06	16:53	Ag	1	X	PAHS (8270C)	PAHS (8270C)	PAHS (8270C)	Samples chilled on wet ice.
MW-3	5/23/06	18:05	Ag	1	X	PAHS (8270C)	PAHS (8270C)	PAHS (8270C)	
MW-5	5/23/06	19:52	Ag	5	X	PAHS (8270C)	PAHS (8270C)	PAHS (8270C)	
MW-1	5/24/06	9:25	Ag	5	X	PAHS (8270C)	PAHS (8270C)	PAHS (8270C)	
MW-7	5/24/06	10:45	Ag	5	X	PAHS (8270C)	PAHS (8270C)	PAHS (8270C)	
MW-2	5/24/06	11:36	Ag	5	X	PAHS (8270C)	PAHS (8270C)	PAHS (8270C)	
MW-10	5/24/06	14:30	Ag	5	X	PAHS (8270C)	PAHS (8270C)	PAHS (8270C)	
MW-8	5/24/06	15:45	Ag	5	X	PAHS (8270C)	PAHS (8270C)	PAHS (8270C)	
MW-9	5/25/06	10:35	Ag	5	X	PAHS (8270C)	PAHS (8270C)	PAHS (8270C)	
MW-6	5/25/06	14:42	Ag	5	X	PAHS (8270C)	PAHS (8270C)	PAHS (8270C)	
MW-7D	5/26/06	11:42	Ag	1	X	PAHS (8270C)	PAHS (8270C)	PAHS (8270C)	
MW-100	5/25/06	16:00	Ag	5	X	PAHS (8270C)	PAHS (8270C)	PAHS (8270C)	
Trip Blank	5/26/06	16:00	Ag	2	X	PAHS (8270C)	PAHS (8270C)	PAHS (8270C)	
end									
Relinquished by (Signature): <i>GBeaulieu</i>		Date: 5/26/06		Time: 12:35		Received by (Signature): <i>C. ENT</i>		Laboratory Name: AES	
Relinquished by (Signature):		Date:		Time:		Received by (Signature):		Laboratory Location: Atlanta, GA	
Turn-Around Time: Standard		Date:		Time:		Tracking Number:		Custody Seal Numbers:	
						Method of Shipment: self		ENVIRONMENTAL STRATEGIES CONSULTING LLC A QUANTA TECHNICAL SERVICES COMPANY	
								Denver Office: 4600 South Ulster, # 930, Denver, CO 80237 Tel: (303) 850-9200, Fax: (303) 850-9214 Minneapolis Office: 123 North 3rd St, #706, Minneapolis, MN 55401 Tel: (612) 343-0510, Fax: (612) 343-0506	

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Env. Strategies

Work Order Number 0605632

Checklist completed by Hammersten 5/26/06
Signature Date

Carrier name: FedEx ☐ UPS ☐ Courier ☐ Client ☒ US Mail ☐ Other ☐

Shipping container/cooler in good condition? Yes ☒ No ☐ Not Present ☐

Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒

Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒

Container/Temp Blank temperature in compliance? ($4^{\circ}\text{C}\pm 2$)* Yes ☒ No ☐

Cooler #1 2-5°C Cooler #2 ☐ Cooler #3 ☐ Cooler #4 ☐ Cooler #5 ☐ Cooler #6 ☐

Chain of custody present? Yes ☒ No ☐

Chain of custody signed when relinquished and received? Yes ☒ No ☐

Chain of custody agrees with sample labels? Yes ☒ No ☐

Samples in proper container/bottle? Yes ☒ No ☐

Sample containers intact? Yes ☒ No ☐

Sufficient sample volume for indicated test? Yes ☒ No ☐

All samples received within holding time? Yes ☒ No ☐

Was TAT marked on the COC? Yes ☒ No ☐

Proceed with Standard TAT as per project history? Yes ☐ No ☐ Not Applicable ☒

Water - VOA vials have zero headspace? No VOA vials submitted ☐ Yes ☒ No ☐

Water - pH acceptable upon receipt? Yes ☒ No ☐ Not Applicable ☐

Adjusted? ☐ Checked by HE

Sample Condition: Good ☒ Other(Explain) ☐

(For diffusive samples or AIHA lead) Is a known blank included? Yes ☐ No ☒

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

C:\Documents and Settings\Chemist\Desktop\Checklist.rtf

Analytical Environmental Services, Inc.

Date: 02-Jun-06

CLIENT: Environmental Strategies Corporation
Project: NL Atlanta
Lab ID: 0605G32-001

Client Sample ID: MW-4
Collection Date: 5/23/2006 4:53:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
METALS, TOTAL			SW6010B		(SW3010A)		Analyst: BB
Cadmium	BRL	0.0050		mg/L	71418	1	5/31/2006 5:26 PM
Copper	BRL	0.0100		mg/L	71418	1	5/31/2006 5:26 PM
Lead	BRL	0.0100		mg/L	71418	1	5/31/2006 5:26 PM
Zinc	BRL	0.0200		mg/L	71418	1	5/31/2006 5:26 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
N Analyte not NELAC certified
B Analyte detected in the associated Method Blank

E Estimated (Value above quantitation range)
S Surrogate Recovery outside accepted recovery limits
Narr See Case Narrative
NC Not Confirmed

Analytical Environmental Services, Inc.

Date: 02-Jun-06

CLIENT: Environmental Strategies Corporation
Project: NL Atlanta
Lab ID: 0605G32-002

Client Sample ID: MW-3
Collection Date: 5/23/2006 6:05:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
METALS, TOTAL			SW6010B		(SW3010A)		Analyst: BB
Cadmium	BRL	0.0050		mg/L	71418	1	5/31/2006 5:29 PM
Copper	BRL	0.0100		mg/L	71418	1	5/31/2006 5:29 PM
Lead	BRL	0.0100		mg/L	71418	1	5/31/2006 5:29 PM
Zinc	0.999	0.0200		mg/L	71418	1	5/31/2006 5:29 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
N Analyte not NELAC certified
B Analyte detected in the associated Method Blank

E Estimated (Value above quantitation range)
S Surrogate Recovery outside accepted recovery limits
Narr See Case Narrative
NC Not Confirmed

Analytical Environmental Services, Inc.

Date: 02-Jun-06

CLIENT: Environmental Strategies Corporation
Project: NL Atlanta
Lab ID: 0605G32-003

Client Sample ID: MW-5
Collection Date: 5/23/2006 7:52:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
METALS, TOTAL							
		SW6010B			(SW3010A)		Analyst: BB
Cadmium	BRL	0.0050		mg/L	71418	1	5/31/2006 5:33 PM
Copper	BRL	0.0100		mg/L	71418	1	5/31/2006 5:33 PM
Lead	BRL	0.0100		mg/L	71418	1	5/31/2006 5:33 PM
Zinc	BRL	0.0200		mg/L	71418	1	5/31/2006 5:33 PM
POLYAROMATIC HYDROCARBONS							
		SW8270C			(SW3535)		Analyst: DA
Naphthalene	BRL	10		µg/L	71369	1	5/31/2006 6:57 PM
Acenaphthylene	BRL	10		µg/L	71369	1	5/31/2006 6:57 PM
1-Methylnaphthalene	BRL	10		µg/L	71369	1	5/31/2006 6:57 PM
2-Methylnaphthalene	BRL	10		µg/L	71369	1	5/31/2006 6:57 PM
Acenaphthene	BRL	10		µg/L	71369	1	5/31/2006 6:57 PM
Fluorene	BRL	10		µg/L	71369	1	5/31/2006 6:57 PM
Phenanthrene	BRL	10		µg/L	71369	1	5/31/2006 6:57 PM
Anthracene	BRL	10		µg/L	71369	1	5/31/2006 6:57 PM
Fluoranthene	BRL	10		µg/L	71369	1	5/31/2006 6:57 PM
Pyrene	BRL	10		µg/L	71369	1	5/31/2006 6:57 PM
Benz(a)anthracene	BRL	10		µg/L	71369	1	5/31/2006 6:57 PM
Chrysene	BRL	10		µg/L	71369	1	5/31/2006 6:57 PM
Benzo(b)fluoranthene	BRL	10		µg/L	71369	1	5/31/2006 6:57 PM
Benzo(k)fluoranthene	BRL	10		µg/L	71369	1	5/31/2006 6:57 PM
Benzo(a)pyrene	BRL	10		µg/L	71369	1	5/31/2006 6:57 PM
Dibenz(a,h)anthracene	BRL	10		µg/L	71369	1	5/31/2006 6:57 PM
Benzo(g,h,i)perylene	BRL	10		µg/L	71369	1	5/31/2006 6:57 PM
Indeno(1,2,3-cd)pyrene	BRL	10		µg/L	71369	1	5/31/2006 6:57 PM
Surr: Nitrobenzene-d5	81.7	29.9-115		%REC	71369	1	5/31/2006 6:57 PM
Surr: 2-Fluorobiphenyl	69.7	46.6-115		%REC	71369	1	5/31/2006 6:57 PM
Surr: 4-Terphenyl-d14	87.5	55.9-118		%REC	71369	1	5/31/2006 6:57 PM
TCL VOLATILE ORGANICS							
		SW8260B			(SW5030B)		Analyst: HW
1,1,1-Trichloroethane	BRL	5.0		µg/L	71407	1	5/29/2006 9:25 PM
1,1,2,2-Tetrachloroethane	BRL	5.0		µg/L	71407	1	5/29/2006 9:25 PM
1,1,2-Trichloroethane	BRL	5.0		µg/L	71407	1	5/29/2006 9:25 PM
1,1-Dichloroethane	BRL	5.0		µg/L	71407	1	5/29/2006 9:25 PM
1,1-Dichloroethene	BRL	5.0		µg/L	71407	1	5/29/2006 9:25 PM
1,2,4-Trichlorobenzene	BRL	5.0		µg/L	71407	1	5/29/2006 9:25 PM
1,2-Dibromo-3-chloropropane	BRL	5.0		µg/L	71407	1	5/29/2006 9:25 PM
1,2-Dibromoethane	BRL	5.0		µg/L	71407	1	5/29/2006 9:25 PM
1,2-Dichlorobenzene	BRL	5.0		µg/L	71407	1	5/29/2006 9:25 PM
1,2-Dichloroethane	BRL	5.0		µg/L	71407	1	5/29/2006 9:25 PM
1,2-Dichloropropane	BRL	5.0		µg/L	71407	1	5/29/2006 9:25 PM
1,3-Dichlorobenzene	BRL	5.0		µg/L	71407	1	5/29/2006 9:25 PM
1,4-Dichlorobenzene	BRL	5.0		µg/L	71407	1	5/29/2006 9:25 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
 BRL Below Reporting Limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated Method Blank

E Estimated (Value above quantitation range)
 S Surrogate Recovery outside accepted recovery limits
 Narr See Case Narrative
 NC Not Confirmed

Analytical Environmental Services, Inc.

Date: 02-Jun-06

CLIENT: Environmental Strategies Corporation
Project: NL Atlanta
Lab ID: 0605G32-003

Client Sample ID: MW-5
Collection Date: 5/23/2006 7:52:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B		(SW5030B)	Analyst: HW		
2-Butanone	BRL	50		µg/L	71407	1	5/29/2006 9:25 PM
2-Hexanone	BRL	10		µg/L	71407	1	5/29/2006 9:25 PM
4-Methyl-2-pentanone	BRL	10		µg/L	71407	1	5/29/2006 9:25 PM
Acetone	BRL	50		µg/L	71407	1	5/29/2006 9:25 PM
Benzene	BRL	5.0		µg/L	71407	1	5/29/2006 9:25 PM
Bromodichloromethane	BRL	5.0		µg/L	71407	1	5/29/2006 9:25 PM
Bromoform	BRL	5.0		µg/L	71407	1	5/29/2006 9:25 PM
Bromomethane	BRL	5.0		µg/L	71407	1	5/29/2006 9:25 PM
Carbon disulfide	BRL	5.0		µg/L	71407	1	5/29/2006 9:25 PM
Carbon tetrachloride	BRL	5.0		µg/L	71407	1	5/29/2006 9:25 PM
Chlorobenzene	BRL	5.0		µg/L	71407	1	5/29/2006 9:25 PM
Chloroethane	BRL	10		µg/L	71407	1	5/29/2006 9:25 PM
Chloroform	BRL	5.0		µg/L	71407	1	5/29/2006 9:25 PM
Chloromethane	BRL	10		µg/L	71407	1	5/29/2006 9:25 PM
cis-1,2-Dichloroethene	BRL	5.0		µg/L	71407	1	5/29/2006 9:25 PM
cis-1,3-Dichloropropene	BRL	5.0		µg/L	71407	1	5/29/2006 9:25 PM
Cyclohexane	BRL	5.0		µg/L	71407	1	5/29/2006 9:25 PM
Dibromochloromethane	BRL	5.0		µg/L	71407	1	5/29/2006 9:25 PM
Dichlorodifluoromethane	BRL	10		µg/L	71407	1	5/29/2006 9:25 PM
Ethylbenzene	BRL	5.0		µg/L	71407	1	5/29/2006 9:25 PM
Freon-113	BRL	10		µg/L	71407	1	5/29/2006 9:25 PM
Isopropylbenzene	BRL	5.0		µg/L	71407	1	5/29/2006 9:25 PM
m,p-Xylene	BRL	10		µg/L	71407	1	5/29/2006 9:25 PM
Methyl acetate	BRL	5.0		µg/L	71407	1	5/29/2006 9:25 PM
Methyl tert-butyl ether	BRL	5.0		µg/L	71407	1	5/29/2006 9:25 PM
Methylcyclohexane	BRL	5.0		µg/L	71407	1	5/29/2006 9:25 PM
Methylene chloride	BRL	5.0		µg/L	71407	1	5/29/2006 9:25 PM
o-Xylene	BRL	5.0		µg/L	71407	1	5/29/2006 9:25 PM
Styrene	BRL	5.0		µg/L	71407	1	5/29/2006 9:25 PM
Tetrachloroethene	BRL	5.0		µg/L	71407	1	5/29/2006 9:25 PM
Toluene	BRL	5.0		µg/L	71407	1	5/29/2006 9:25 PM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	71407	1	5/29/2006 9:25 PM
trans-1,3-Dichloropropene	BRL	5.0		µg/L	71407	1	5/29/2006 9:25 PM
Trichloroethene	BRL	5.0		µg/L	71407	1	5/29/2006 9:25 PM
Trichlorofluoromethane	BRL	5.0		µg/L	71407	1	5/29/2006 9:25 PM
Vinyl chloride	BRL	2.0		µg/L	71407	1	5/29/2006 9:25 PM
Surr: 4-Bromofluorobenzene	76.0	63.7-115		%REC	71407	1	5/29/2006 9:25 PM
Surr: Dibromofluoromethane	94.3	70.4-123		%REC	71407	1	5/29/2006 9:25 PM
Surr: Toluene-d8	92.0	73.4-115		%REC	71407	1	5/29/2006 9:25 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- BRL Below Reporting Limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated Method Blank

- E Estimated (Value above quantitation range)
- S Surrogate Recovery outside accepted recovery limits
- Narr See Case Narrative
- NC Not Confirmed

Analytical Environmental Services, Inc.

Date: 02-Jun-06

CLIENT: Environmental Strategies Corporation
Project: NL Atlanta
Lab ID: 0605G32-004

Client Sample ID: MW-1
Collection Date: 5/24/2006 9:25:00 AM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
METALS, TOTAL		SW6010B			(SW3010A)		Analyst: BB
Cadmium	BRL	0.0050		mg/L	71418	1	5/31/2006 5:37 PM
Copper	BRL	0.0100		mg/L	71418	1	5/31/2006 5:37 PM
Lead	0.0230	0.0100		mg/L	71418	1	5/31/2006 5:37 PM
Zinc	BRL	0.0200		mg/L	71418	1	5/31/2006 5:37 PM
POLYAROMATIC HYDROCARBONS		SW8270C			(SW3535)		Analyst: DA
Naphthalene	40	10		µg/L	71369	1	5/31/2006 9:39 PM
Acenaphthylene	BRL	10		µg/L	71369	1	5/31/2006 9:39 PM
1-Methylnaphthalene	11	10		µg/L	71369	1	5/31/2006 9:39 PM
2-Methylnaphthalene	11	10		µg/L	71369	1	5/31/2006 9:39 PM
Acenaphthene	BRL	10		µg/L	71369	1	5/31/2006 9:39 PM
Fluorene	BRL	10		µg/L	71369	1	5/31/2006 9:39 PM
Phenanthrene	BRL	10		µg/L	71369	1	5/31/2006 9:39 PM
Anthracene	BRL	10		µg/L	71369	1	5/31/2006 9:39 PM
Fluoranthene	BRL	10		µg/L	71369	1	5/31/2006 9:39 PM
Pyrene	BRL	10		µg/L	71369	1	5/31/2006 9:39 PM
Benz(a)anthracene	BRL	10		µg/L	71369	1	5/31/2006 9:39 PM
Chrysene	BRL	10		µg/L	71369	1	5/31/2006 9:39 PM
Benzo(b)fluoranthene	BRL	10		µg/L	71369	1	5/31/2006 9:39 PM
Benzo(k)fluoranthene	BRL	10		µg/L	71369	1	5/31/2006 9:39 PM
Benzo(a)pyrene	BRL	10		µg/L	71369	1	5/31/2006 9:39 PM
Dibenz(a,h)anthracene	BRL	10		µg/L	71369	1	5/31/2006 9:39 PM
Benzo(g,h,i)perylene	BRL	10		µg/L	71369	1	5/31/2006 9:39 PM
Indeno(1,2,3-cd)pyrene	BRL	10		µg/L	71369	1	5/31/2006 9:39 PM
Surr: Nitrobenzene-d5	52.5	29.9-115		%REC	71369	1	5/31/2006 9:39 PM
Surr: 2-Fluorobiphenyl	70.9	46.6-115		%REC	71369	1	5/31/2006 9:39 PM
Surr: 4-Terphenyl-d14	88.3	55.9-118		%REC	71369	1	5/31/2006 9:39 PM
TCL VOLATILE ORGANICS		SW8260B			(SW5030B)		Analyst: HW
1,1,1-Trichloroethane	BRL	5.0		µg/L	71407	1	5/29/2006 9:50 PM
1,1,2,2-Tetrachloroethane	BRL	5.0		µg/L	71407	1	5/29/2006 9:50 PM
1,1,2-Trichloroethane	BRL	5.0		µg/L	71407	1	5/29/2006 9:50 PM
1,1-Dichloroethane	BRL	5.0		µg/L	71407	1	5/29/2006 9:50 PM
1,1-Dichloroethene	BRL	5.0		µg/L	71407	1	5/29/2006 9:50 PM
1,2,4-Trichlorobenzene	BRL	5.0		µg/L	71407	1	5/29/2006 9:50 PM
1,2-Dibromo-3-chloropropane	BRL	5.0		µg/L	71407	1	5/29/2006 9:50 PM
1,2-Dibromoethane	BRL	5.0		µg/L	71407	1	5/29/2006 9:50 PM
1,2-Dichlorobenzene	BRL	5.0		µg/L	71407	1	5/29/2006 9:50 PM
1,2-Dichloroethane	BRL	5.0		µg/L	71407	1	5/29/2006 9:50 PM
1,2-Dichloropropane	BRL	5.0		µg/L	71407	1	5/29/2006 9:50 PM
1,3-Dichlorobenzene	BRL	5.0		µg/L	71407	1	5/29/2006 9:50 PM
1,4-Dichlorobenzene	BRL	5.0		µg/L	71407	1	5/29/2006 9:50 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- BRL Below Reporting Limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated Method Blank

- E Estimated (Value above quantitation range)
- S Surrogate Recovery outside accepted recovery limits
- Narr See Case Narrative
- NC Not Confirmed

Analytical Environmental Services, Inc.

Date: 02-Jun-06

CLIENT: Environmental Strategies Corporation
Project: NL Atlanta
Lab ID: 0605G32-004

Client Sample ID: MW-1
Collection Date: 5/24/2006 9:25:00 AM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B		(SW5030B)	Analyst: HW		
2-Butanone	BRL	50		µg/L	71407	1	5/29/2006 9:50 PM
2-Hexanone	BRL	10		µg/L	71407	1	5/29/2006 9:50 PM
4-Methyl-2-pentanone	BRL	10		µg/L	71407	1	5/29/2006 9:50 PM
Acetone	BRL	50		µg/L	71407	1	5/29/2006 9:50 PM
Benzene	56	5.0		µg/L	71407	1	5/29/2006 9:50 PM
Bromodichloromethane	BRL	5.0		µg/L	71407	1	5/29/2006 9:50 PM
Bromoform	BRL	5.0		µg/L	71407	1	5/29/2006 9:50 PM
Bromomethane	BRL	5.0		µg/L	71407	1	5/29/2006 9:50 PM
Carbon disulfide	BRL	5.0		µg/L	71407	1	5/29/2006 9:50 PM
Carbon tetrachloride	BRL	5.0		µg/L	71407	1	5/29/2006 9:50 PM
Chlorobenzene	BRL	5.0		µg/L	71407	1	5/29/2006 9:50 PM
Chloroethane	BRL	10		µg/L	71407	1	5/29/2006 9:50 PM
Chloroform	BRL	5.0		µg/L	71407	1	5/29/2006 9:50 PM
Chloromethane	BRL	10		µg/L	71407	1	5/29/2006 9:50 PM
cis-1,2-Dichloroethene	BRL	5.0		µg/L	71407	1	5/29/2006 9:50 PM
cis-1,3-Dichloropropene	BRL	5.0		µg/L	71407	1	5/29/2006 9:50 PM
Cyclohexane	56	5.0		µg/L	71407	1	5/29/2006 9:50 PM
Dibromochloromethane	BRL	5.0		µg/L	71407	1	5/29/2006 9:50 PM
Dichlorodifluoromethane	BRL	10		µg/L	71407	1	5/29/2006 9:50 PM
Ethylbenzene	61	5.0		µg/L	71407	1	5/29/2006 9:50 PM
Freon-113	BRL	10		µg/L	71407	1	5/29/2006 9:50 PM
Isopropylbenzene	11	5.0		µg/L	71407	1	5/29/2006 9:50 PM
m,p-Xylene	350	10		µg/L	71407	1	5/29/2006 9:50 PM
Methyl acetate	BRL	5.0		µg/L	71407	1	5/29/2006 9:50 PM
Methyl tert-butyl ether	BRL	5.0		µg/L	71407	1	5/29/2006 9:50 PM
Methylcyclohexane	25	5.0		µg/L	71407	1	5/29/2006 9:50 PM
Methylene chloride	BRL	5.0		µg/L	71407	1	5/29/2006 9:50 PM
o-Xylene	75	5.0		µg/L	71407	1	5/29/2006 9:50 PM
Styrene	BRL	5.0		µg/L	71407	1	5/29/2006 9:50 PM
Tetrachloroethene	BRL	5.0		µg/L	71407	1	5/29/2006 9:50 PM
Toluene	33	5.0		µg/L	71407	1	5/29/2006 9:50 PM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	71407	1	5/29/2006 9:50 PM
trans-1,3-Dichloropropene	BRL	5.0		µg/L	71407	1	5/29/2006 9:50 PM
Trichloroethene	BRL	5.0		µg/L	71407	1	5/29/2006 9:50 PM
Trichlorofluoromethane	BRL	5.0		µg/L	71407	1	5/29/2006 9:50 PM
Vinyl chloride	BRL	2.0		µg/L	71407	1	5/29/2006 9:50 PM
Surr: 4-Bromofluorobenzene	90.6	63.7-115		%REC	71407	1	5/29/2006 9:50 PM
Surr: Dibromofluoromethane	81.5	70.4-123		%REC	71407	1	5/29/2006 9:50 PM
Surr: Toluene-d8	88.7	73.4-115		%REC	71407	1	5/29/2006 9:50 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- BRL Below Reporting Limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated Method Blank

- E Estimated (Value above quantitation range)
- S Surrogate Recovery outside accepted recovery limits
- Narr See Case Narrative
- NC Not Confirmed

Analytical Environmental Services, Inc.

Date: 02-Jun-06

CLIENT: Environmental Strategies Corporation
Project: NL Atlanta
Lab ID: 0605G32-005

Client Sample ID: MW-7
Collection Date: 5/24/2006 10:45:00 AM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
METALS, TOTAL		SW6010B			(SW3010A)		Analyst: BB
Cadmium	0.0093	0.0050		mg/L	71418	1	5/31/2006 5:40 PM
Copper	0.0544	0.0100		mg/L	71418	1	5/31/2006 5:40 PM
Lead	BRL	0.0100		mg/L	71418	1	5/31/2006 5:40 PM
Zinc	0.157	0.0200		mg/L	71418	1	5/31/2006 5:40 PM
POLYAROMATIC HYDROCARBONS		SW8270C			(SW3535)		Analyst: DA
Naphthalene	BRL	10		µg/L	71369	1	5/31/2006 10:12 PM
Acenaphthylene	BRL	10		µg/L	71369	1	5/31/2006 10:12 PM
1-Methylnaphthalene	BRL	10		µg/L	71369	1	5/31/2006 10:12 PM
2-Methylnaphthalene	BRL	10		µg/L	71369	1	5/31/2006 10:12 PM
Acenaphthene	BRL	10		µg/L	71369	1	5/31/2006 10:12 PM
Fluorene	BRL	10		µg/L	71369	1	5/31/2006 10:12 PM
Phenanthrene	BRL	10		µg/L	71369	1	5/31/2006 10:12 PM
Anthracene	BRL	10		µg/L	71369	1	5/31/2006 10:12 PM
Fluoranthene	BRL	10		µg/L	71369	1	5/31/2006 10:12 PM
Pyrene	BRL	10		µg/L	71369	1	5/31/2006 10:12 PM
Benz(a)anthracene	BRL	10		µg/L	71369	1	5/31/2006 10:12 PM
Chrysene	BRL	10		µg/L	71369	1	5/31/2006 10:12 PM
Benzo(b)fluoranthene	BRL	10		µg/L	71369	1	5/31/2006 10:12 PM
Benzo(k)fluoranthene	BRL	10		µg/L	71369	1	5/31/2006 10:12 PM
Benzo(a)pyrene	BRL	10		µg/L	71369	1	5/31/2006 10:12 PM
Dibenz(a,h)anthracene	BRL	10		µg/L	71369	1	5/31/2006 10:12 PM
Benzo(g,h,i)perylene	BRL	10		µg/L	71369	1	5/31/2006 10:12 PM
Indeno(1,2,3-cd)pyrene	BRL	10		µg/L	71369	1	5/31/2006 10:12 PM
Surr: Nitrobenzene-d5	82.9	29.9-115		%REC	71369	1	5/31/2006 10:12 PM
Surr: 2-Fluorobiphenyl	64.8	46.6-115		%REC	71369	1	5/31/2006 10:12 PM
Surr: 4-Terphenyl-d14	96.0	55.9-118		%REC	71369	1	5/31/2006 10:12 PM
TCL VOLATILE ORGANICS		SW8260B			(SW5030B)		Analyst: HW
1,1,1-Trichloroethane	BRL	5.0		µg/L	71407	1	5/29/2006 10:15 PM
1,1,2,2-Tetrachloroethane	BRL	5.0		µg/L	71407	1	5/29/2006 10:15 PM
1,1,2-Trichloroethane	BRL	5.0		µg/L	71407	1	5/29/2006 10:15 PM
1,1-Dichloroethane	BRL	5.0		µg/L	71407	1	5/29/2006 10:15 PM
1,1-Dichloroethene	BRL	5.0		µg/L	71407	1	5/29/2006 10:15 PM
1,2,4-Trichlorobenzene	BRL	5.0		µg/L	71407	1	5/29/2006 10:15 PM
1,2-Dibromo-3-chloropropane	BRL	5.0		µg/L	71407	1	5/29/2006 10:15 PM
1,2-Dibromoethane	BRL	5.0		µg/L	71407	1	5/29/2006 10:15 PM
1,2-Dichlorobenzene	BRL	5.0		µg/L	71407	1	5/29/2006 10:15 PM
1,2-Dichloroethane	BRL	5.0		µg/L	71407	1	5/29/2006 10:15 PM
1,2-Dichloropropane	BRL	5.0		µg/L	71407	1	5/29/2006 10:15 PM
1,3-Dichlorobenzene	BRL	5.0		µg/L	71407	1	5/29/2006 10:15 PM
1,4-Dichlorobenzene	BRL	5.0		µg/L	71407	1	5/29/2006 10:15 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
N Analyte not NELAC certified
B Analyte detected in the associated Method Blank

E Estimated (Value above quantitation range)
S Surrogate Recovery outside accepted recovery limits
Narr See Case Narrative
NC Not Confirmed

Analytical Environmental Services, Inc.

Date: 02-Jun-06

CLIENT: Environmental Strategies Corporation
Project: NL Atlanta
Lab ID: 0605G32-005

Client Sample ID: MW-7
Collection Date: 5/24/2006 10:45:00 AM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B		(SW5030B)	Analyst: HW		
2-Butanone	BRL	50		µg/L	71407	1	5/29/2006 10:15 PM
2-Hexanone	BRL	10		µg/L	71407	1	5/29/2006 10:15 PM
4-Methyl-2-pentanone	BRL	10		µg/L	71407	1	5/29/2006 10:15 PM
Acetone	BRL	50		µg/L	71407	1	5/29/2006 10:15 PM
Benzene	BRL	5.0		µg/L	71407	1	5/29/2006 10:15 PM
Bromodichloromethane	BRL	5.0		µg/L	71407	1	5/29/2006 10:15 PM
Bromoform	BRL	5.0		µg/L	71407	1	5/29/2006 10:15 PM
Bromomethane	BRL	5.0		µg/L	71407	1	5/29/2006 10:15 PM
Carbon disulfide	BRL	5.0		µg/L	71407	1	5/29/2006 10:15 PM
Carbon tetrachloride	BRL	5.0		µg/L	71407	1	5/29/2006 10:15 PM
Chlorobenzene	BRL	5.0		µg/L	71407	1	5/29/2006 10:15 PM
Chloroethane	BRL	10		µg/L	71407	1	5/29/2006 10:15 PM
Chloroform	BRL	5.0		µg/L	71407	1	5/29/2006 10:15 PM
Chloromethane	BRL	10		µg/L	71407	1	5/29/2006 10:15 PM
cis-1,2-Dichloroethene	BRL	5.0		µg/L	71407	1	5/29/2006 10:15 PM
cis-1,3-Dichloropropene	BRL	5.0		µg/L	71407	1	5/29/2006 10:15 PM
Cyclohexane	BRL	5.0		µg/L	71407	1	5/29/2006 10:15 PM
Dibromochloromethane	BRL	5.0		µg/L	71407	1	5/29/2006 10:15 PM
Dichlorodifluoromethane	BRL	10		µg/L	71407	1	5/29/2006 10:15 PM
Ethylbenzene	BRL	5.0		µg/L	71407	1	5/29/2006 10:15 PM
Freon-113	BRL	10		µg/L	71407	1	5/29/2006 10:15 PM
Isopropylbenzene	BRL	5.0		µg/L	71407	1	5/29/2006 10:15 PM
m,p-Xylene	BRL	10		µg/L	71407	1	5/29/2006 10:15 PM
Methyl acetate	BRL	5.0		µg/L	71407	1	5/29/2006 10:15 PM
Methyl tert-butyl ether	BRL	5.0		µg/L	71407	1	5/29/2006 10:15 PM
Methylcyclohexane	BRL	5.0		µg/L	71407	1	5/29/2006 10:15 PM
Methylene chloride	BRL	5.0		µg/L	71407	1	5/29/2006 10:15 PM
o-Xylene	BRL	5.0		µg/L	71407	1	5/29/2006 10:15 PM
Styrene	BRL	5.0		µg/L	71407	1	5/29/2006 10:15 PM
Tetrachloroethene	BRL	5.0		µg/L	71407	1	5/29/2006 10:15 PM
Toluene	BRL	5.0		µg/L	71407	1	5/29/2006 10:15 PM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	71407	1	5/29/2006 10:15 PM
trans-1,3-Dichloropropene	BRL	5.0		µg/L	71407	1	5/29/2006 10:15 PM
Trichloroethene	BRL	5.0		µg/L	71407	1	5/29/2006 10:15 PM
Trichlorofluoromethane	BRL	5.0		µg/L	71407	1	5/29/2006 10:15 PM
Vinyl chloride	BRL	2.0		µg/L	71407	1	5/29/2006 10:15 PM
Surr: 4-Bromofluorobenzene	82.2	63.7-115		%REC	71407	1	5/29/2006 10:15 PM
Surr: Dibromofluoromethane	90.1	70.4-123		%REC	71407	1	5/29/2006 10:15 PM
Surr: Toluene-d8	82.1	73.4-115		%REC	71407	1	5/29/2006 10:15 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- BRL Below Reporting Limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated Method Blank

- E Estimated (Value above quantitation range)
- S Surrogate Recovery outside accepted recovery limits
- Narr See Case Narrative
- NC Not Confirmed

Analytical Environmental Services, Inc.

Date: 02-Jun-06

CLIENT: Environmental Strategies Corporation
Project: NL Atlanta
Lab ID: 0605G32-006

Client Sample ID: MW-2
Collection Date: 5/24/2006 11:36:00 AM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
METALS, TOTAL							
		SW6010B			(SW3010A)		Analyst: BB
Cadmium	0.0183	0.0050		mg/L	71418	1	5/31/2006 5:51 PM
Copper	0.0121	0.0100		mg/L	71418	1	5/31/2006 5:51 PM
Lead	BRL	0.0100		mg/L	71418	1	5/31/2006 5:51 PM
Zinc	0.549	0.0200		mg/L	71418	1	5/31/2006 5:51 PM
POLYAROMATIC HYDROCARBONS							
		SW8270C			(SW3535)		Analyst: DA
Naphthalene	BRL	10		µg/L	71369	1	5/31/2006 10:44 PM
Acenaphthylene	BRL	10		µg/L	71369	1	5/31/2006 10:44 PM
1-Methylnaphthalene	BRL	10		µg/L	71369	1	5/31/2006 10:44 PM
2-Methylnaphthalene	BRL	10		µg/L	71369	1	5/31/2006 10:44 PM
Acenaphthene	BRL	10		µg/L	71369	1	5/31/2006 10:44 PM
Fluorene	BRL	10		µg/L	71369	1	5/31/2006 10:44 PM
Phenanthrene	BRL	10		µg/L	71369	1	5/31/2006 10:44 PM
Anthracene	BRL	10		µg/L	71369	1	5/31/2006 10:44 PM
Fluoranthene	BRL	10		µg/L	71369	1	5/31/2006 10:44 PM
Pyrene	BRL	10		µg/L	71369	1	5/31/2006 10:44 PM
Benz(a)anthracene	BRL	10		µg/L	71369	1	5/31/2006 10:44 PM
Chrysene	BRL	10		µg/L	71369	1	5/31/2006 10:44 PM
Benzo(b)fluoranthene	BRL	10		µg/L	71369	1	5/31/2006 10:44 PM
Benzo(k)fluoranthene	BRL	10		µg/L	71369	1	5/31/2006 10:44 PM
Benzo(a)pyrene	BRL	10		µg/L	71369	1	5/31/2006 10:44 PM
Dibenz(a,h)anthracene	BRL	10		µg/L	71369	1	5/31/2006 10:44 PM
Benzo(g,h,i)perylene	BRL	10		µg/L	71369	1	5/31/2006 10:44 PM
Indeno(1,2,3-cd)pyrene	BRL	10		µg/L	71369	1	5/31/2006 10:44 PM
Surr: Nitrobenzene-d5	70.1	29.9-115		%REC	71369	1	5/31/2006 10:44 PM
Surr: 2-Fluorobiphenyl	80.0	46.6-115		%REC	71369	1	5/31/2006 10:44 PM
Surr: 4-Terphenyl-d14	95.1	55.9-118		%REC	71369	1	5/31/2006 10:44 PM
TCL VOLATILE ORGANICS							
		SW8260B			(SW5030B)		Analyst: HW
1,1,1-Trichloroethane	BRL	5.0		µg/L	71407	1	5/29/2006 10:40 PM
1,1,2,2-Tetrachloroethane	BRL	5.0		µg/L	71407	1	5/29/2006 10:40 PM
1,1,2-Trichloroethane	BRL	5.0		µg/L	71407	1	5/29/2006 10:40 PM
1,1-Dichloroethane	BRL	5.0		µg/L	71407	1	5/29/2006 10:40 PM
1,1-Dichloroethene	BRL	5.0		µg/L	71407	1	5/29/2006 10:40 PM
1,2,4-Trichlorobenzene	BRL	5.0		µg/L	71407	1	5/29/2006 10:40 PM
1,2-Dibromo-3-chloropropane	BRL	5.0		µg/L	71407	1	5/29/2006 10:40 PM
1,2-Dibromoethane	BRL	5.0		µg/L	71407	1	5/29/2006 10:40 PM
1,2-Dichlorobenzene	BRL	5.0		µg/L	71407	1	5/29/2006 10:40 PM
1,2-Dichloroethane	BRL	5.0		µg/L	71407	1	5/29/2006 10:40 PM
1,2-Dichloropropane	BRL	5.0		µg/L	71407	1	5/29/2006 10:40 PM
1,3-Dichlorobenzene	BRL	5.0		µg/L	71407	1	5/29/2006 10:40 PM
1,4-Dichlorobenzene	BRL	5.0		µg/L	71407	1	5/29/2006 10:40 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
 BRL Below Reporting Limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated Method Blank

E Estimated (Value above quantitation range)
 S Surrogate Recovery outside accepted recovery limits
 Narr See Case Narrative
 NC Not Confirmed

Analytical Environmental Services, Inc.

Date: 02-Jun-06

CLIENT: Environmental Strategies Corporation
Project: NL Atlanta
Lab ID: 0605G32-006

Client Sample ID: MW-2
Collection Date: 5/24/2006 11:36:00 AM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B		(SW5030B)	Analyst: HW		
2-Butanone	BRL	50		µg/L	71407	1	5/29/2006 10:40 PM
2-Hexanone	BRL	10		µg/L	71407	1	5/29/2006 10:40 PM
4-Methyl-2-pentanone	BRL	10		µg/L	71407	1	5/29/2006 10:40 PM
Acetone	BRL	50		µg/L	71407	1	5/29/2006 10:40 PM
Benzene	BRL	5.0		µg/L	71407	1	5/29/2006 10:40 PM
Bromodichloromethane	BRL	5.0		µg/L	71407	1	5/29/2006 10:40 PM
Bromoform	BRL	5.0		µg/L	71407	1	5/29/2006 10:40 PM
Bromomethane	BRL	5.0		µg/L	71407	1	5/29/2006 10:40 PM
Carbon disulfide	BRL	5.0		µg/L	71407	1	5/29/2006 10:40 PM
Carbon tetrachloride	BRL	5.0		µg/L	71407	1	5/29/2006 10:40 PM
Chlorobenzene	BRL	5.0		µg/L	71407	1	5/29/2006 10:40 PM
Chloroethane	BRL	10		µg/L	71407	1	5/29/2006 10:40 PM
Chloroform	BRL	5.0		µg/L	71407	1	5/29/2006 10:40 PM
Chloromethane	BRL	10		µg/L	71407	1	5/29/2006 10:40 PM
cis-1,2-Dichloroethene	BRL	5.0		µg/L	71407	1	5/29/2006 10:40 PM
cis-1,3-Dichloropropene	BRL	5.0		µg/L	71407	1	5/29/2006 10:40 PM
Cyclohexane	BRL	5.0		µg/L	71407	1	5/29/2006 10:40 PM
Dibromochloromethane	BRL	5.0		µg/L	71407	1	5/29/2006 10:40 PM
Dichlorodifluoromethane	BRL	10		µg/L	71407	1	5/29/2006 10:40 PM
Ethylbenzene	BRL	5.0		µg/L	71407	1	5/29/2006 10:40 PM
Freon-113	BRL	10		µg/L	71407	1	5/29/2006 10:40 PM
Isopropylbenzene	BRL	5.0		µg/L	71407	1	5/29/2006 10:40 PM
m,p-Xylene	BRL	10		µg/L	71407	1	5/29/2006 10:40 PM
Methyl acetate	BRL	5.0		µg/L	71407	1	5/29/2006 10:40 PM
Methyl tert-butyl ether	BRL	5.0		µg/L	71407	1	5/29/2006 10:40 PM
Methylcyclohexane	BRL	5.0		µg/L	71407	1	5/29/2006 10:40 PM
Methylene chloride	BRL	5.0		µg/L	71407	1	5/29/2006 10:40 PM
o-Xylene	BRL	5.0		µg/L	71407	1	5/29/2006 10:40 PM
Styrene	BRL	5.0		µg/L	71407	1	5/29/2006 10:40 PM
Tetrachloroethene	BRL	5.0		µg/L	71407	1	5/29/2006 10:40 PM
Toluene	BRL	5.0		µg/L	71407	1	5/29/2006 10:40 PM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	71407	1	5/29/2006 10:40 PM
trans-1,3-Dichloropropene	BRL	5.0		µg/L	71407	1	5/29/2006 10:40 PM
Trichloroethene	BRL	5.0		µg/L	71407	1	5/29/2006 10:40 PM
Trichlorofluoromethane	BRL	5.0		µg/L	71407	1	5/29/2006 10:40 PM
Vinyl chloride	BRL	2.0		µg/L	71407	1	5/29/2006 10:40 PM
Surr: 4-Bromofluorobenzene	78.5	63.7-115		%REC	71407	1	5/29/2006 10:40 PM
Surr: Dibromofluoromethane	94.4	70.4-123		%REC	71407	1	5/29/2006 10:40 PM
Surr: Toluene-d8	87.7	73.4-115		%REC	71407	1	5/29/2006 10:40 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
N Analyte not NELAC certified
B Analyte detected in the associated Method Blank

E Estimated (Value above quantitation range)
S Surrogate Recovery outside accepted recovery limits
Narr See Case Narrative
NC Not Confirmed

Analytical Environmental Services, Inc.

Date: 02-Jun-06

CLIENT: Environmental Strategies Corporation
Project: NL Atlanta
Lab ID: 0605G32-007

Client Sample ID: MW-10
Collection Date: 5/24/2006 2:30:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
METALS, TOTAL		SW6010B			(SW3010A)		Analyst: BB
Cadmium	BRL	0.0050		mg/L	71418	1	5/31/2006 5:54 PM
Copper	BRL	0.0100		mg/L	71418	1	5/31/2006 5:54 PM
Lead	BRL	0.0100		mg/L	71418	1	5/31/2006 5:54 PM
Zinc	BRL	0.0200		mg/L	71418	1	5/31/2006 5:54 PM
POLYAROMATIC HYDROCARBONS		SW8270C			(SW3535)		Analyst: DA
Naphthalene	BRL	10		µg/L	71369	1	5/31/2006 11:16 PM
Acenaphthylene	BRL	10		µg/L	71369	1	5/31/2006 11:16 PM
1-Methylnaphthalene	BRL	10		µg/L	71369	1	5/31/2006 11:16 PM
2-Methylnaphthalene	BRL	10		µg/L	71369	1	5/31/2006 11:16 PM
Acenaphthene	BRL	10		µg/L	71369	1	5/31/2006 11:16 PM
Fluorene	BRL	10		µg/L	71369	1	5/31/2006 11:16 PM
Phenanthrene	BRL	10		µg/L	71369	1	5/31/2006 11:16 PM
Anthracene	BRL	10		µg/L	71369	1	5/31/2006 11:16 PM
Fluoranthene	BRL	10		µg/L	71369	1	5/31/2006 11:16 PM
Pyrene	BRL	10		µg/L	71369	1	5/31/2006 11:16 PM
Benz(a)anthracene	BRL	10		µg/L	71369	1	5/31/2006 11:16 PM
Chrysene	BRL	10		µg/L	71369	1	5/31/2006 11:16 PM
Benzo(b)fluoranthene	BRL	10		µg/L	71369	1	5/31/2006 11:16 PM
Benzo(k)fluoranthene	BRL	10		µg/L	71369	1	5/31/2006 11:16 PM
Benzo(a)pyrene	BRL	10		µg/L	71369	1	5/31/2006 11:16 PM
Dibenz(a,h)anthracene	BRL	10		µg/L	71369	1	5/31/2006 11:16 PM
Benzo(g,h,i)perylene	BRL	10		µg/L	71369	1	5/31/2006 11:16 PM
Indeno(1,2,3-cd)pyrene	BRL	10		µg/L	71369	1	5/31/2006 11:16 PM
Surr: Nitrobenzene-d5	60.7	29.9-115		%REC	71369	1	5/31/2006 11:16 PM
Surr: 2-Fluorobiphenyl	60.0	46.6-115		%REC	71369	1	5/31/2006 11:16 PM
Surr: 4-Terphenyl-d14	97.3	55.9-118		%REC	71369	1	5/31/2006 11:16 PM
TCL VOLATILE ORGANICS		SW8260B			(SW5030B)		Analyst: HW
1,1,1-Trichloroethane	BRL	5.0		µg/L	71407	1	5/29/2006 11:04 PM
1,1,2,2-Tetrachloroethane	BRL	5.0		µg/L	71407	1	5/29/2006 11:04 PM
1,1,2-Trichloroethane	BRL	5.0		µg/L	71407	1	5/29/2006 11:04 PM
1,1-Dichloroethane	BRL	5.0		µg/L	71407	1	5/29/2006 11:04 PM
1,1-Dichloroethene	BRL	5.0		µg/L	71407	1	5/29/2006 11:04 PM
1,2,4-Trichlorobenzene	BRL	5.0		µg/L	71407	1	5/29/2006 11:04 PM
1,2-Dibromo-3-chloropropane	BRL	5.0		µg/L	71407	1	5/29/2006 11:04 PM
1,2-Dibromoethane	BRL	5.0		µg/L	71407	1	5/29/2006 11:04 PM
1,2-Dichlorobenzene	BRL	5.0		µg/L	71407	1	5/29/2006 11:04 PM
1,2-Dichloroethane	BRL	5.0		µg/L	71407	1	5/29/2006 11:04 PM
1,2-Dichloropropane	BRL	5.0		µg/L	71407	1	5/29/2006 11:04 PM
1,3-Dichlorobenzene	BRL	5.0		µg/L	71407	1	5/29/2006 11:04 PM
1,4-Dichlorobenzene	BRL	5.0		µg/L	71407	1	5/29/2006 11:04 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
N Analyte not NELAC certified
B Analyte detected in the associated Method Blank

E Estimated (Value above quantitation range)
S Surrogate Recovery outside accepted recovery limits
Narr See Case Narrative
NC Not Confirmed

Analytical Environmental Services, Inc.

Date: 02-Jun-06

CLIENT: Environmental Strategies Corporation
Project: NL Atlanta
Lab ID: 0605G32-007

Client Sample ID: MW-10
Collection Date: 5/24/2006 2:30:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B		(SW5030B)	Analyst: HW		
2-Butanone	BRL	50		µg/L	71407	1	5/29/2006 11:04 PM
2-Hexanone	BRL	10		µg/L	71407	1	5/29/2006 11:04 PM
4-Methyl-2-pentanone	BRL	10		µg/L	71407	1	5/29/2006 11:04 PM
Acetone	BRL	50		µg/L	71407	1	5/29/2006 11:04 PM
Benzene	BRL	5.0		µg/L	71407	1	5/29/2006 11:04 PM
Bromodichloromethane	BRL	5.0		µg/L	71407	1	5/29/2006 11:04 PM
Bromoform	BRL	5.0		µg/L	71407	1	5/29/2006 11:04 PM
Bromomethane	BRL	5.0		µg/L	71407	1	5/29/2006 11:04 PM
Carbon disulfide	BRL	5.0		µg/L	71407	1	5/29/2006 11:04 PM
Carbon tetrachloride	BRL	5.0		µg/L	71407	1	5/29/2006 11:04 PM
Chlorobenzene	BRL	5.0		µg/L	71407	1	5/29/2006 11:04 PM
Chloroethane	BRL	10		µg/L	71407	1	5/29/2006 11:04 PM
Chloroform	BRL	5.0		µg/L	71407	1	5/29/2006 11:04 PM
Chloromethane	BRL	10		µg/L	71407	1	5/29/2006 11:04 PM
cis-1,2-Dichloroethene	BRL	5.0		µg/L	71407	1	5/29/2006 11:04 PM
cis-1,3-Dichloropropene	BRL	5.0		µg/L	71407	1	5/29/2006 11:04 PM
Cyclohexane	BRL	5.0		µg/L	71407	1	5/29/2006 11:04 PM
Dibromochloromethane	BRL	5.0		µg/L	71407	1	5/29/2006 11:04 PM
Dichlorodifluoromethane	BRL	10		µg/L	71407	1	5/29/2006 11:04 PM
Ethylbenzene	BRL	5.0		µg/L	71407	1	5/29/2006 11:04 PM
Freon-113	BRL	10		µg/L	71407	1	5/29/2006 11:04 PM
Isopropylbenzene	BRL	5.0		µg/L	71407	1	5/29/2006 11:04 PM
m,p-Xylene	BRL	10		µg/L	71407	1	5/29/2006 11:04 PM
Methyl acetate	BRL	5.0		µg/L	71407	1	5/29/2006 11:04 PM
Methyl tert-butyl ether	BRL	5.0		µg/L	71407	1	5/29/2006 11:04 PM
Methylcyclohexane	BRL	5.0		µg/L	71407	1	5/29/2006 11:04 PM
Methylene chloride	BRL	5.0		µg/L	71407	1	5/29/2006 11:04 PM
o-Xylene	BRL	5.0		µg/L	71407	1	5/29/2006 11:04 PM
Styrene	BRL	5.0		µg/L	71407	1	5/29/2006 11:04 PM
Tetrachloroethene	BRL	5.0		µg/L	71407	1	5/29/2006 11:04 PM
Toluene	BRL	5.0		µg/L	71407	1	5/29/2006 11:04 PM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	71407	1	5/29/2006 11:04 PM
trans-1,3-Dichloropropene	BRL	5.0		µg/L	71407	1	5/29/2006 11:04 PM
Trichloroethene	BRL	5.0		µg/L	71407	1	5/29/2006 11:04 PM
Trichlorofluoromethane	BRL	5.0		µg/L	71407	1	5/29/2006 11:04 PM
Vinyl chloride	BRL	2.0		µg/L	71407	1	5/29/2006 11:04 PM
Surr: 4-Bromofluorobenzene	74.9	63.7-115		%REC	71407	1	5/29/2006 11:04 PM
Surr: Dibromofluoromethane	96.4	70.4-123		%REC	71407	1	5/29/2006 11:04 PM
Surr: Toluene-d8	87.9	73.4-115		%REC	71407	1	5/29/2006 11:04 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- BRL Below Reporting Limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated Method Blank

- E Estimated (Value above quantitation range)
- S Surrogate Recovery outside accepted recovery limits
- Narr See Case Narrative
- NC Not Confirmed

Analytical Environmental Services, Inc.

Date: 02-Jun-06

CLIENT: Environmental Strategies Corporation
Project: NL Atlanta
Lab ID: 0605G32-008

Client Sample ID: MW-8
Collection Date: 5/24/2006 3:45:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
METALS, TOTAL		SW6010B			(SW3010A)		Analyst: BB
Cadmium	BRL	0.0050		mg/L	71418	1	5/31/2006 5:58 PM
Copper	BRL	0.0100		mg/L	71418	1	5/31/2006 5:58 PM
Lead	0.166	0.0100		mg/L	71418	1	5/31/2006 5:58 PM
Zinc	0.895	0.0200		mg/L	71418	1	5/31/2006 5:58 PM
POLYAROMATIC HYDROCARBONS		SW8270C			(SW3535)		Analyst: DA
Naphthalene	BRL	10		µg/L	71369	1	5/31/2006 11:49 PM
Acenaphthylene	BRL	10		µg/L	71369	1	5/31/2006 11:49 PM
1-Methylnaphthalene	BRL	10		µg/L	71369	1	5/31/2006 11:49 PM
2-Methylnaphthalene	BRL	10		µg/L	71369	1	5/31/2006 11:49 PM
Acenaphthene	BRL	10		µg/L	71369	1	5/31/2006 11:49 PM
Fluorene	BRL	10		µg/L	71369	1	5/31/2006 11:49 PM
Phenanthrene	BRL	10		µg/L	71369	1	5/31/2006 11:49 PM
Anthracene	BRL	10		µg/L	71369	1	5/31/2006 11:49 PM
Fluoranthene	BRL	10		µg/L	71369	1	5/31/2006 11:49 PM
Pyrene	BRL	10		µg/L	71369	1	5/31/2006 11:49 PM
Benz(a)anthracene	BRL	10		µg/L	71369	1	5/31/2006 11:49 PM
Chrysene	BRL	10		µg/L	71369	1	5/31/2006 11:49 PM
Benzo(b)fluoranthene	BRL	10		µg/L	71369	1	5/31/2006 11:49 PM
Benzo(k)fluoranthene	BRL	10		µg/L	71369	1	5/31/2006 11:49 PM
Benzo(a)pyrene	BRL	10		µg/L	71369	1	5/31/2006 11:49 PM
Dibenz(a,h)anthracene	BRL	10		µg/L	71369	1	5/31/2006 11:49 PM
Benzo(g,h,i)perylene	BRL	10		µg/L	71369	1	5/31/2006 11:49 PM
Indeno(1,2,3-cd)pyrene	BRL	10		µg/L	71369	1	5/31/2006 11:49 PM
Surr: Nitrobenzene-d5	84.9	29.9-115		%REC	71369	1	5/31/2006 11:49 PM
Surr: 2-Fluorobiphenyl	68.2	46.6-115		%REC	71369	1	5/31/2006 11:49 PM
Surr: 4-Terphenyl-d14	93.8	55.9-118		%REC	71369	1	5/31/2006 11:49 PM
TCL VOLATILE ORGANICS		SW8260B			(SW5030B)		Analyst: HW
1,1,1-Trichloroethane	BRL	5.0		µg/L	71407	1	5/29/2006 11:29 PM
1,1,2,2-Tetrachloroethane	BRL	5.0		µg/L	71407	1	5/29/2006 11:29 PM
1,1,2-Trichloroethane	BRL	5.0		µg/L	71407	1	5/29/2006 11:29 PM
1,1-Dichloroethane	BRL	5.0		µg/L	71407	1	5/29/2006 11:29 PM
1,1-Dichloroethene	BRL	5.0		µg/L	71407	1	5/29/2006 11:29 PM
1,2,4-Trichlorobenzene	BRL	5.0		µg/L	71407	1	5/29/2006 11:29 PM
1,2-Dibromo-3-chloropropane	BRL	5.0		µg/L	71407	1	5/29/2006 11:29 PM
1,2-Dibromoethane	BRL	5.0		µg/L	71407	1	5/29/2006 11:29 PM
1,2-Dichlorobenzene	BRL	5.0		µg/L	71407	1	5/29/2006 11:29 PM
1,2-Dichloroethane	BRL	5.0		µg/L	71407	1	5/29/2006 11:29 PM
1,2-Dichloropropane	BRL	5.0		µg/L	71407	1	5/29/2006 11:29 PM
1,3-Dichlorobenzene	BRL	5.0		µg/L	71407	1	5/29/2006 11:29 PM
1,4-Dichlorobenzene	BRL	5.0		µg/L	71407	1	5/29/2006 11:29 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
N Analyte not NELAC certified
B Analyte detected in the associated Method Blank

E Estimated (Value above quantitation range)
S Surrogate Recovery outside accepted recovery limits
Narr See Case Narrative
NC Not Confirmed

Analytical Environmental Services, Inc.

Date: 02-Jun-06

CLIENT: Environmental Strategies Corporation
Project: NL Atlanta
Lab ID: 0605G32-008

Client Sample ID: MW-8
Collection Date: 5/24/2006 3:45:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B		(SW5030B)	Analyst: HW		
2-Butanone	BRL	50		µg/L	71407	1	5/29/2006 11:29 PM
2-Hexanone	BRL	10		µg/L	71407	1	5/29/2006 11:29 PM
4-Methyl-2-pentanone	BRL	10		µg/L	71407	1	5/29/2006 11:29 PM
Acetone	BRL	50		µg/L	71407	1	5/29/2006 11:29 PM
Benzene	BRL	5.0		µg/L	71407	1	5/29/2006 11:29 PM
Bromodichloromethane	BRL	5.0		µg/L	71407	1	5/29/2006 11:29 PM
Bromoform	BRL	5.0		µg/L	71407	1	5/29/2006 11:29 PM
Bromomethane	BRL	5.0		µg/L	71407	1	5/29/2006 11:29 PM
Carbon disulfide	BRL	5.0		µg/L	71407	1	5/29/2006 11:29 PM
Carbon tetrachloride	BRL	5.0		µg/L	71407	1	5/29/2006 11:29 PM
Chlorobenzene	BRL	5.0		µg/L	71407	1	5/29/2006 11:29 PM
Chloroethane	BRL	10		µg/L	71407	1	5/29/2006 11:29 PM
Chloroform	BRL	5.0		µg/L	71407	1	5/29/2006 11:29 PM
Chloromethane	BRL	10		µg/L	71407	1	5/29/2006 11:29 PM
cis-1,2-Dichloroethene	BRL	5.0		µg/L	71407	1	5/29/2006 11:29 PM
cis-1,3-Dichloropropene	BRL	5.0		µg/L	71407	1	5/29/2006 11:29 PM
Cyclohexane	BRL	5.0		µg/L	71407	1	5/29/2006 11:29 PM
Dibromochloromethane	BRL	5.0		µg/L	71407	1	5/29/2006 11:29 PM
Dichlorodifluoromethane	BRL	10		µg/L	71407	1	5/29/2006 11:29 PM
Ethylbenzene	BRL	5.0		µg/L	71407	1	5/29/2006 11:29 PM
Freon-113	BRL	10		µg/L	71407	1	5/29/2006 11:29 PM
Isopropylbenzene	BRL	5.0		µg/L	71407	1	5/29/2006 11:29 PM
m,p-Xylene	BRL	10		µg/L	71407	1	5/29/2006 11:29 PM
Methyl acetate	BRL	5.0		µg/L	71407	1	5/29/2006 11:29 PM
Methyl tert-butyl ether	BRL	5.0		µg/L	71407	1	5/29/2006 11:29 PM
Methylcyclohexane	BRL	5.0		µg/L	71407	1	5/29/2006 11:29 PM
Methylene chloride	BRL	5.0		µg/L	71407	1	5/29/2006 11:29 PM
o-Xylene	BRL	5.0		µg/L	71407	1	5/29/2006 11:29 PM
Styrene	BRL	5.0		µg/L	71407	1	5/29/2006 11:29 PM
Tetrachloroethene	BRL	5.0		µg/L	71407	1	5/29/2006 11:29 PM
Toluene	BRL	5.0		µg/L	71407	1	5/29/2006 11:29 PM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	71407	1	5/29/2006 11:29 PM
trans-1,3-Dichloropropene	BRL	5.0		µg/L	71407	1	5/29/2006 11:29 PM
Trichloroethene	BRL	5.0		µg/L	71407	1	5/29/2006 11:29 PM
Trichlorofluoromethane	BRL	5.0		µg/L	71407	1	5/29/2006 11:29 PM
Vinyl chloride	BRL	2.0		µg/L	71407	1	5/29/2006 11:29 PM
Surr: 4-Bromofluorobenzene	79.0	63.7-115		%REC	71407	1	5/29/2006 11:29 PM
Surr: Dibromofluoromethane	98.8	70.4-123		%REC	71407	1	5/29/2006 11:29 PM
Surr: Toluene-d8	91.8	73.4-115		%REC	71407	1	5/29/2006 11:29 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- BRL Below Reporting Limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated Method Blank

- E Estimated (Value above quantitation range)
- S Surrogate Recovery outside accepted recovery limits
- Narr See Case Narrative
- NC Not Confirmed

Analytical Environmental Services, Inc.

Date: 02-Jun-06

CLIENT: Environmental Strategies Corporation
Project: NL Atlanta
Lab ID: 0605G32-009

Client Sample ID: MW-9
Collection Date: 5/25/2006 10:35:00 AM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
METALS, TOTAL							
		SW6010B			(SW3010A)		Analyst: BB
Cadmium	BRL	0.0050		mg/L	71418	1	5/31/2006 6:02 PM
Copper	0.0142	0.0100		mg/L	71418	1	5/31/2006 6:02 PM
Lead	BRL	0.0100		mg/L	71418	1	5/31/2006 6:02 PM
Zinc	0.348	0.0200		mg/L	71418	1	5/31/2006 6:02 PM
POLYAROMATIC HYDROCARBONS							
		SW8270C			(SW3535)		Analyst: DA
Naphthalene	BRL	10		µg/L	71369	1	6/1/2006 12:21 AM
Acenaphthylene	BRL	10		µg/L	71369	1	6/1/2006 12:21 AM
1-Methylnaphthalene	BRL	10		µg/L	71369	1	6/1/2006 12:21 AM
2-Methylnaphthalene	BRL	10		µg/L	71369	1	6/1/2006 12:21 AM
Acenaphthene	BRL	10		µg/L	71369	1	6/1/2006 12:21 AM
Fluorene	BRL	10		µg/L	71369	1	6/1/2006 12:21 AM
Phenanthrene	BRL	10		µg/L	71369	1	6/1/2006 12:21 AM
Anthracene	BRL	10		µg/L	71369	1	6/1/2006 12:21 AM
Fluoranthene	BRL	10		µg/L	71369	1	6/1/2006 12:21 AM
Pyrene	BRL	10		µg/L	71369	1	6/1/2006 12:21 AM
Benz(a)anthracene	BRL	10		µg/L	71369	1	6/1/2006 12:21 AM
Chrysene	BRL	10		µg/L	71369	1	6/1/2006 12:21 AM
Benzo(b)fluoranthene	BRL	10		µg/L	71369	1	6/1/2006 12:21 AM
Benzo(k)fluoranthene	BRL	10		µg/L	71369	1	6/1/2006 12:21 AM
Benzo(a)pyrene	BRL	10		µg/L	71369	1	6/1/2006 12:21 AM
Dibenz(a,h)anthracene	BRL	10		µg/L	71369	1	6/1/2006 12:21 AM
Benzo(g,h,i)perylene	BRL	10		µg/L	71369	1	6/1/2006 12:21 AM
Indeno(1,2,3-cd)pyrene	BRL	10		µg/L	71369	1	6/1/2006 12:21 AM
Surr: Nitrobenzene-d5	75.5	29.9-115		%REC	71369	1	6/1/2006 12:21 AM
Surr: 2-Fluorobiphenyl	72.1	46.6-115		%REC	71369	1	6/1/2006 12:21 AM
Surr: 4-Terphenyl-d14	98.3	55.9-118		%REC	71369	1	6/1/2006 12:21 AM
TCL VOLATILE ORGANICS							
		SW8260B			(SW5030B)		Analyst: HW
1,1,1-Trichloroethane	BRL	5.0		µg/L	71407	1	5/29/2006 11:54 PM
1,1,2,2-Tetrachloroethane	BRL	5.0		µg/L	71407	1	5/29/2006 11:54 PM
1,1,2-Trichloroethane	BRL	5.0		µg/L	71407	1	5/29/2006 11:54 PM
1,1-Dichloroethane	BRL	5.0		µg/L	71407	1	5/29/2006 11:54 PM
1,1-Dichloroethene	BRL	5.0		µg/L	71407	1	5/29/2006 11:54 PM
1,2,4-Trichlorobenzene	BRL	5.0		µg/L	71407	1	5/29/2006 11:54 PM
1,2-Dibromo-3-chloropropane	BRL	5.0		µg/L	71407	1	5/29/2006 11:54 PM
1,2-Dibromoethane	BRL	5.0		µg/L	71407	1	5/29/2006 11:54 PM
1,2-Dichlorobenzene	BRL	5.0		µg/L	71407	1	5/29/2006 11:54 PM
1,2-Dichloroethane	BRL	5.0		µg/L	71407	1	5/29/2006 11:54 PM
1,2-Dichloropropane	BRL	5.0		µg/L	71407	1	5/29/2006 11:54 PM
1,3-Dichlorobenzene	BRL	5.0		µg/L	71407	1	5/29/2006 11:54 PM
1,4-Dichlorobenzene	BRL	5.0		µg/L	71407	1	5/29/2006 11:54 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- BRL Below Reporting Limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated Method Blank

- E Estimated (Value above quantitation range)
- S Surrogate Recovery outside accepted recovery limits
- Narr See Case Narrative
- NC Not Confirmed

Analytical Environmental Services, Inc.

Date: 02-Jun-06

CLIENT: Environmental Strategies Corporation
Project: NL Atlanta
Lab ID: 0605G32-009

Client Sample ID: MW-9
Collection Date: 5/25/2006 10:35:00 AM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B		(SW5030B)	Analyst: HW		
2-Butanone	BRL	50		µg/L	71407	1	5/29/2006 11:54 PM
2-Hexanone	BRL	10		µg/L	71407	1	5/29/2006 11:54 PM
4-Methyl-2-pentanone	BRL	10		µg/L	71407	1	5/29/2006 11:54 PM
Acetone	BRL	50		µg/L	71407	1	5/29/2006 11:54 PM
Benzene	BRL	5.0		µg/L	71407	1	5/29/2006 11:54 PM
Bromodichloromethane	BRL	5.0		µg/L	71407	1	5/29/2006 11:54 PM
Bromoform	BRL	5.0		µg/L	71407	1	5/29/2006 11:54 PM
Bromomethane	BRL	5.0		µg/L	71407	1	5/29/2006 11:54 PM
Carbon disulfide	BRL	5.0		µg/L	71407	1	5/29/2006 11:54 PM
Carbon tetrachloride	BRL	5.0		µg/L	71407	1	5/29/2006 11:54 PM
Chlorobenzene	BRL	5.0		µg/L	71407	1	5/29/2006 11:54 PM
Chloroethane	BRL	10		µg/L	71407	1	5/29/2006 11:54 PM
Chloroform	BRL	5.0		µg/L	71407	1	5/29/2006 11:54 PM
Chloromethane	BRL	10		µg/L	71407	1	5/29/2006 11:54 PM
cis-1,2-Dichloroethene	BRL	5.0		µg/L	71407	1	5/29/2006 11:54 PM
cis-1,3-Dichloropropene	BRL	5.0		µg/L	71407	1	5/29/2006 11:54 PM
Cyclohexane	BRL	5.0		µg/L	71407	1	5/29/2006 11:54 PM
Dibromochloromethane	BRL	5.0		µg/L	71407	1	5/29/2006 11:54 PM
Dichlorodifluoromethane	BRL	10		µg/L	71407	1	5/29/2006 11:54 PM
Ethylbenzene	BRL	5.0		µg/L	71407	1	5/29/2006 11:54 PM
Freon-113	BRL	10		µg/L	71407	1	5/29/2006 11:54 PM
Isopropylbenzene	BRL	5.0		µg/L	71407	1	5/29/2006 11:54 PM
m,p-Xylene	BRL	10		µg/L	71407	1	5/29/2006 11:54 PM
Methyl acetate	BRL	5.0		µg/L	71407	1	5/29/2006 11:54 PM
Methyl tert-butyl ether	BRL	5.0		µg/L	71407	1	5/29/2006 11:54 PM
Methylcyclohexane	BRL	5.0		µg/L	71407	1	5/29/2006 11:54 PM
Methylene chloride	BRL	5.0		µg/L	71407	1	5/29/2006 11:54 PM
o-Xylene	BRL	5.0		µg/L	71407	1	5/29/2006 11:54 PM
Styrene	BRL	5.0		µg/L	71407	1	5/29/2006 11:54 PM
Tetrachloroethene	BRL	5.0		µg/L	71407	1	5/29/2006 11:54 PM
Toluene	BRL	5.0		µg/L	71407	1	5/29/2006 11:54 PM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	71407	1	5/29/2006 11:54 PM
trans-1,3-Dichloropropene	BRL	5.0		µg/L	71407	1	5/29/2006 11:54 PM
Trichloroethene	BRL	5.0		µg/L	71407	1	5/29/2006 11:54 PM
Trichlorofluoromethane	BRL	5.0		µg/L	71407	1	5/29/2006 11:54 PM
Vinyl chloride	BRL	2.0		µg/L	71407	1	5/29/2006 11:54 PM
Surr: 4-Bromofluorobenzene	77.8	63.7-115		%REC	71407	1	5/29/2006 11:54 PM
Surr: Dibromofluoromethane	96.7	70.4-123		%REC	71407	1	5/29/2006 11:54 PM
Surr: Toluene-d8	90.0	73.4-115		%REC	71407	1	5/29/2006 11:54 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- BRL Below Reporting Limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated Method Blank

- E Estimated (Value above quantitation range)
- S Surrogate Recovery outside accepted recovery limits
- Narr See Case Narrative
- NC Not Confirmed

Analytical Environmental Services, Inc.

Date: 02-Jun-06

CLIENT: Environmental Strategies Corporation
Project: NL Atlanta
Lab ID: 0605G32-010

Client Sample ID: MW-6
Collection Date: 5/25/2006 2:42:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
METALS, TOTAL		SW6010B			(SW3010A)		Analyst: BB
Cadmium	BRL	0.0050		mg/L	71418	1	5/31/2006 6:05 PM
Copper	BRL	0.0100		mg/L	71418	1	5/31/2006 6:05 PM
Lead	BRL	0.0100		mg/L	71418	1	5/31/2006 6:05 PM
Zinc	0.0288	0.0200		mg/L	71418	1	5/31/2006 6:05 PM
POLYAROMATIC HYDROCARBONS		SW8270C			(SW3535)		Analyst: DA
Naphthalene	130	10		µg/L	71369	1	6/1/2006 12:53 AM
Acenaphthylene	BRL	10		µg/L	71369	1	6/1/2006 12:53 AM
1-Methylnaphthalene	25	10		µg/L	71369	1	6/1/2006 12:53 AM
2-Methylnaphthalene	49	10		µg/L	71369	1	6/1/2006 12:53 AM
Acenaphthene	BRL	10		µg/L	71369	1	6/1/2006 12:53 AM
Fluorene	BRL	10		µg/L	71369	1	6/1/2006 12:53 AM
Phenanthrene	BRL	10		µg/L	71369	1	6/1/2006 12:53 AM
Anthracene	BRL	10		µg/L	71369	1	6/1/2006 12:53 AM
Fluoranthene	BRL	10		µg/L	71369	1	6/1/2006 12:53 AM
Pyrene	BRL	10		µg/L	71369	1	6/1/2006 12:53 AM
Benz(a)anthracene	BRL	10		µg/L	71369	1	6/1/2006 12:53 AM
Chrysene	BRL	10		µg/L	71369	1	6/1/2006 12:53 AM
Benzo(b)fluoranthene	BRL	10		µg/L	71369	1	6/1/2006 12:53 AM
Benzo(k)fluoranthene	BRL	10		µg/L	71369	1	6/1/2006 12:53 AM
Benzo(a)pyrene	BRL	10		µg/L	71369	1	6/1/2006 12:53 AM
Dibenz(a,h)anthracene	BRL	10		µg/L	71369	1	6/1/2006 12:53 AM
Benzo(g,h,i)perylene	BRL	10		µg/L	71369	1	6/1/2006 12:53 AM
Indeno(1,2,3-cd)pyrene	BRL	10		µg/L	71369	1	6/1/2006 12:53 AM
Surr: Nitrobenzene-d5	45.0	29.9-115		%REC	71369	1	6/1/2006 12:53 AM
Surr: 2-Fluorobiphenyl	69.1	46.6-115		%REC	71369	1	6/1/2006 12:53 AM
Surr: 4-Terphenyl-d14	90.8	55.9-118		%REC	71369	1	6/1/2006 12:53 AM
TCL VOLATILE ORGANICS		SW8260B			(SW5030B)		Analyst: HW
1,1,1-Trichloroethane	BRL	5.0		µg/L	71407	1	5/30/2006 12:20 AM
1,1,2,2-Tetrachloroethane	BRL	5.0		µg/L	71407	1	5/30/2006 12:20 AM
1,1,2-Trichloroethane	BRL	5.0		µg/L	71407	1	5/30/2006 12:20 AM
1,1-Dichloroethane	BRL	5.0		µg/L	71407	1	5/30/2006 12:20 AM
1,1-Dichloroethene	BRL	5.0		µg/L	71407	1	5/30/2006 12:20 AM
1,2,4-Trichlorobenzene	BRL	5.0		µg/L	71407	1	5/30/2006 12:20 AM
1,2-Dibromo-3-chloropropane	BRL	5.0		µg/L	71407	1	5/30/2006 12:20 AM
1,2-Dibromoethane	BRL	5.0		µg/L	71407	1	5/30/2006 12:20 AM
1,2-Dichlorobenzene	BRL	5.0		µg/L	71407	1	5/30/2006 12:20 AM
1,2-Dichloroethane	BRL	5.0		µg/L	71407	1	5/30/2006 12:20 AM
1,2-Dichloropropane	BRL	5.0		µg/L	71407	1	5/30/2006 12:20 AM
1,3-Dichlorobenzene	BRL	5.0		µg/L	71407	1	5/30/2006 12:20 AM
1,4-Dichlorobenzene	BRL	5.0		µg/L	71407	1	5/30/2006 12:20 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- BRL Below Reporting Limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated Method Blank

- E Estimated (Value above quantitation range)
- S Surrogate Recovery outside accepted recovery limits
- Narr See Case Narrative
- NC Not Confirmed

Analytical Environmental Services, Inc.

Date: 02-Jun-06

CLIENT: Environmental Strategies Corporation

Client Sample ID: MW-6

Project: NL Atlanta

Collection Date: 5/25/2006 2:42:00 PM

Lab ID: 0605G32-010

Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B		(SW5030B)	Analyst: HW		
2-Butanone	BRL	50		µg/L	71407	1	5/30/2006 12:20 AM
2-Hexanone	BRL	10		µg/L	71407	1	5/30/2006 12:20 AM
4-Methyl-2-pentanone	12	10		µg/L	71407	1	5/30/2006 12:20 AM
Acetone	BRL	50		µg/L	71407	1	5/30/2006 12:20 AM
Benzene	1800	500		µg/L	71407	100	6/2/2006 12:39 PM
Bromodichloromethane	BRL	5.0		µg/L	71407	1	5/30/2006 12:20 AM
Bromoform	BRL	5.0		µg/L	71407	1	5/30/2006 12:20 AM
Bromomethane	BRL	5.0		µg/L	71407	1	5/30/2006 12:20 AM
Carbon disulfide	BRL	5.0		µg/L	71407	1	5/30/2006 12:20 AM
Carbon tetrachloride	BRL	5.0		µg/L	71407	1	5/30/2006 12:20 AM
Chlorobenzene	BRL	5.0		µg/L	71407	1	5/30/2006 12:20 AM
Chloroethane	BRL	10		µg/L	71407	1	5/30/2006 12:20 AM
Chloroform	BRL	5.0		µg/L	71407	1	5/30/2006 12:20 AM
Chloromethane	BRL	10		µg/L	71407	1	5/30/2006 12:20 AM
cis-1,2-Dichloroethene	BRL	5.0		µg/L	71407	1	5/30/2006 12:20 AM
cis-1,3-Dichloropropene	BRL	5.0		µg/L	71407	1	5/30/2006 12:20 AM
Cyclohexane	150	5.0		µg/L	71407	1	5/30/2006 12:20 AM
Dibromochloromethane	BRL	5.0		µg/L	71407	1	5/30/2006 12:20 AM
Dichlorodifluoromethane	BRL	10		µg/L	71407	1	5/30/2006 12:20 AM
Ethylbenzene	710	50		µg/L	71407	10	6/2/2006 10:59 AM
Freon-113	BRL	10		µg/L	71407	1	5/30/2006 12:20 AM
Isopropylbenzene	30	5.0		µg/L	71407	1	5/30/2006 12:20 AM
m,p-Xylene	1500	100		µg/L	71407	10	6/2/2006 10:59 AM
Methyl acetate	BRL	5.0		µg/L	71407	1	5/30/2006 12:20 AM
Methyl tert-butyl ether	BRL	5.0		µg/L	71407	1	5/30/2006 12:20 AM
Methylcyclohexane	79	5.0		µg/L	71407	1	5/30/2006 12:20 AM
Methylene chloride	BRL	5.0		µg/L	71407	1	5/30/2006 12:20 AM
o-Xylene	540	50		µg/L	71407	10	6/2/2006 10:59 AM
Styrene	BRL	5.0		µg/L	71407	1	5/30/2006 12:20 AM
Tetrachloroethene	BRL	5.0		µg/L	71407	1	5/30/2006 12:20 AM
Toluene	2400	500		µg/L	71407	100	6/2/2006 12:39 PM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	71407	1	5/30/2006 12:20 AM
trans-1,3-Dichloropropene	BRL	5.0		µg/L	71407	1	5/30/2006 12:20 AM
Trichloroethene	BRL	5.0		µg/L	71407	1	5/30/2006 12:20 AM
Trichlorofluoromethane	BRL	5.0		µg/L	71407	1	5/30/2006 12:20 AM
Vinyl chloride	BRL	2.0		µg/L	71407	1	5/30/2006 12:20 AM
Surr: 4-Bromofluorobenzene	95.6	63.7-115		%REC	71407	10	6/2/2006 10:59 AM
Surr: 4-Bromofluorobenzene	86.0	63.7-115		%REC	71407	100	6/2/2006 12:39 PM
Surr: 4-Bromofluorobenzene	91.8	63.7-115		%REC	71407	1	5/30/2006 12:20 AM
Surr: Dibromofluoromethane	86.1	70.4-123		%REC	71407	10	6/2/2006 10:59 AM
Surr: Dibromofluoromethane	95.0	70.4-123		%REC	71407	100	6/2/2006 12:39 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
 BRL Below Reporting Limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated Method Blank

E Estimated (Value above quantitation range)
 S Surrogate Recovery outside accepted recovery limits
 Narr See Case Narrative
 NC Not Confirmed

Analytical Environmental Services, Inc.

Date: 02-Jun-06

CLIENT: Environmental Strategies Corporation
Project: NL Atlanta
Lab ID: 0605G32-010

Client Sample ID: MW-6
Collection Date: 5/25/2006 2:42:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS							
		SW8260B			(SW5030B)		Analyst: HW
Surr: Dibromofluoromethane	77.2	70.4-123		%REC	71407	1	5/30/2006 12:20 AM
Surr: Toluene-d8	84.0	73.4-115		%REC	71407	10	6/2/2006 10:59 AM
Surr: Toluene-d8	86.8	73.4-115		%REC	71407	100	6/2/2006 12:39 PM
Surr: Toluene-d8	82.5	73.4-115		%REC	71407	1	5/30/2006 12:20 AM

Qualifiers: * Value exceeds Maximum Contaminant Level
BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
N Analyte not NELAC certified
B Analyte detected in the associated Method Blank

E Estimated (Value above quantitation range)
S Surrogate Recovery outside accepted recovery limits
Narr See Case Narrative
NC Not Confirmed

Analytical Environmental Services, Inc.

Date: 02-Jun-06

CLIENT: Environmental Strategies Corporation
Project: NL Atlanta
Lab ID: 0605G32-011

Client Sample ID: MW-7D
Collection Date: 5/26/2006 11:42:00 AM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
METALS, TOTAL			SW6010B		(SW3010A)		Analyst: BB
Cadmium	0.0615	0.0050		mg/L	71418	1	5/31/2006 6:09 PM
Copper	0.136	0.0100		mg/L	71418	1	5/31/2006 6:09 PM
Lead	0.563	0.0100		mg/L	71418	1	5/31/2006 6:09 PM
Zinc	0.853	0.0200		mg/L	71418	1	5/31/2006 6:09 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
	BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
	H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
	N	Analyte not NELAC certified	NC	Not Confirmed
	B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: 02-Jun-06

CLIENT: Environmental Strategies Corporation
Project: NL Atlanta
Lab ID: 0605G32-012

Client Sample ID: MW-100
Collection Date: 5/25/2006 4:00:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
METALS, TOTAL							
		SW6010B			(SW3010A)		Analyst: BB
Cadmium	BRL	0.0050		mg/L	71418	1	5/31/2006 6:16 PM
Copper	BRL	0.0100		mg/L	71418	1	5/31/2006 6:16 PM
Lead	BRL	0.0100		mg/L	71418	1	5/31/2006 6:16 PM
Zinc	0.0236	0.0200		mg/L	71418	1	5/31/2006 6:16 PM
POLYAROMATIC HYDROCARBONS							
		SW8270C			(SW3535)		Analyst: DA
Naphthalene	140	10		µg/L	71369	1	6/1/2006 1:26 AM
Acenaphthylene	BRL	10		µg/L	71369	1	6/1/2006 1:26 AM
1-Methylnaphthalene	26	10		µg/L	71369	1	6/1/2006 1:26 AM
2-Methylnaphthalene	50	10		µg/L	71369	1	6/1/2006 1:26 AM
Acenaphthene	BRL	10		µg/L	71369	1	6/1/2006 1:26 AM
Fluorene	BRL	10		µg/L	71369	1	6/1/2006 1:26 AM
Phenanthrene	BRL	10		µg/L	71369	1	6/1/2006 1:26 AM
Anthracene	BRL	10		µg/L	71369	1	6/1/2006 1:26 AM
Fluoranthene	BRL	10		µg/L	71369	1	6/1/2006 1:26 AM
Pyrene	BRL	10		µg/L	71369	1	6/1/2006 1:26 AM
Benz(a)anthracene	BRL	10		µg/L	71369	1	6/1/2006 1:26 AM
Chrysene	BRL	10		µg/L	71369	1	6/1/2006 1:26 AM
Benzo(b)fluoranthene	BRL	10		µg/L	71369	1	6/1/2006 1:26 AM
Benzo(k)fluoranthene	BRL	10		µg/L	71369	1	6/1/2006 1:26 AM
Benzo(a)pyrene	BRL	10		µg/L	71369	1	6/1/2006 1:26 AM
Dibenz(a,h)anthracene	BRL	10		µg/L	71369	1	6/1/2006 1:26 AM
Benzo(g,h,i)perylene	BRL	10		µg/L	71369	1	6/1/2006 1:26 AM
Indeno(1,2,3-cd)pyrene	BRL	10		µg/L	71369	1	6/1/2006 1:26 AM
Surr: Nitrobenzene-d5	47.8	29.9-115		%REC	71369	1	6/1/2006 1:26 AM
Surr: 2-Fluorobiphenyl	70.0	46.6-115		%REC	71369	1	6/1/2006 1:26 AM
Surr: 4-Terphenyl-d14	90.7	55.9-118		%REC	71369	1	6/1/2006 1:26 AM
TCL VOLATILE ORGANICS							
		SW8260B			(SW5030B)		Analyst: HW
1,1,1-Trichloroethane	BRL	5.0		µg/L	71407	1	5/30/2006 12:45 AM
1,1,2,2-Tetrachloroethane	BRL	5.0		µg/L	71407	1	5/30/2006 12:45 AM
1,1,2-Trichloroethane	BRL	5.0		µg/L	71407	1	5/30/2006 12:45 AM
1,1-Dichloroethane	BRL	5.0		µg/L	71407	1	5/30/2006 12:45 AM
1,1-Dichloroethene	BRL	5.0		µg/L	71407	1	5/30/2006 12:45 AM
1,2,4-Trichlorobenzene	BRL	5.0		µg/L	71407	1	5/30/2006 12:45 AM
1,2-Dibromo-3-chloropropane	BRL	5.0		µg/L	71407	1	5/30/2006 12:45 AM
1,2-Dibromoethane	BRL	5.0		µg/L	71407	1	5/30/2006 12:45 AM
1,2-Dichlorobenzene	BRL	5.0		µg/L	71407	1	5/30/2006 12:45 AM
1,2-Dichloroethane	BRL	5.0		µg/L	71407	1	5/30/2006 12:45 AM
1,2-Dichloropropane	BRL	5.0		µg/L	71407	1	5/30/2006 12:45 AM
1,3-Dichlorobenzene	BRL	5.0		µg/L	71407	1	5/30/2006 12:45 AM
1,4-Dichlorobenzene	BRL	5.0		µg/L	71407	1	5/30/2006 12:45 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- BRL Below Reporting Limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated Method Blank

- E Estimated (Value above quantitation range)
- S Surrogate Recovery outside accepted recovery limits
- Narr See Case Narrative
- NC Not Confirmed

Analytical Environmental Services, Inc.

Date: 02-Jun-06

CLIENT: Environmental Strategies Corporation
Project: NL Atlanta
Lab ID: 0605G32-012

Client Sample ID: MW-100
Collection Date: 5/25/2006 4:00:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B		(SW5030B)	Analyst: HW		
2-Butanone	BRL	50		µg/L	71407	1	5/30/2006 12:45 AM
2-Hexanone	BRL	10		µg/L	71407	1	5/30/2006 12:45 AM
4-Methyl-2-pentanone	13	10		µg/L	71407	1	5/30/2006 12:45 AM
Acetone	BRL	50		µg/L	71407	1	5/30/2006 12:45 AM
Benzene	1700	50		µg/L	71407	10	6/2/2006 11:24 AM
Bromodichloromethane	BRL	5.0		µg/L	71407	1	5/30/2006 12:45 AM
Bromoform	BRL	5.0		µg/L	71407	1	5/30/2006 12:45 AM
Bromomethane	BRL	5.0		µg/L	71407	1	5/30/2006 12:45 AM
Carbon disulfide	BRL	5.0		µg/L	71407	1	5/30/2006 12:45 AM
Carbon tetrachloride	BRL	5.0		µg/L	71407	1	5/30/2006 12:45 AM
Chlorobenzene	BRL	5.0		µg/L	71407	1	5/30/2006 12:45 AM
Chloroethane	BRL	10		µg/L	71407	1	5/30/2006 12:45 AM
Chloroform	BRL	5.0		µg/L	71407	1	5/30/2006 12:45 AM
Chloromethane	BRL	10		µg/L	71407	1	5/30/2006 12:45 AM
cis-1,2-Dichloroethene	BRL	5.0		µg/L	71407	1	5/30/2006 12:45 AM
cis-1,3-Dichloropropene	BRL	5.0		µg/L	71407	1	5/30/2006 12:45 AM
Cyclohexane	150	5.0		µg/L	71407	1	5/30/2006 12:45 AM
Dibromochloromethane	BRL	5.0		µg/L	71407	1	5/30/2006 12:45 AM
Dichlorodifluoromethane	BRL	10		µg/L	71407	1	5/30/2006 12:45 AM
Ethylbenzene	600	50		µg/L	71407	10	6/2/2006 11:24 AM
Freon-113	BRL	10		µg/L	71407	1	5/30/2006 12:45 AM
Isopropylbenzene	32	5.0		µg/L	71407	1	5/30/2006 12:45 AM
m,p-Xylene	1200	100		µg/L	71407	10	6/2/2006 11:24 AM
Methyl acetate	BRL	5.0		µg/L	71407	1	5/30/2006 12:45 AM
Methyl tert-butyl ether	BRL	5.0		µg/L	71407	1	5/30/2006 12:45 AM
Methylcyclohexane	77	5.0		µg/L	71407	1	5/30/2006 12:45 AM
Methylene chloride	BRL	5.0		µg/L	71407	1	5/30/2006 12:45 AM
o-Xylene	470	50		µg/L	71407	10	6/2/2006 11:24 AM
Styrene	BRL	5.0		µg/L	71407	1	5/30/2006 12:45 AM
Tetrachloroethene	BRL	5.0		µg/L	71407	1	5/30/2006 12:45 AM
Toluene	2000	500		µg/L	71407	100	6/2/2006 1:04 PM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	71407	1	5/30/2006 12:45 AM
trans-1,3-Dichloropropene	BRL	5.0		µg/L	71407	1	5/30/2006 12:45 AM
Trichloroethene	BRL	5.0		µg/L	71407	1	5/30/2006 12:45 AM
Trichlorofluoromethane	BRL	5.0		µg/L	71407	1	5/30/2006 12:45 AM
Vinyl chloride	BRL	2.0		µg/L	71407	1	5/30/2006 12:45 AM
Surr: 4-Bromofluorobenzene	92.8	63.7-115		%REC	71407	10	6/2/2006 11:24 AM
Surr: 4-Bromofluorobenzene	91.2	63.7-115		%REC	71407	1	5/30/2006 12:45 AM
Surr: 4-Bromofluorobenzene	85.2	63.7-115		%REC	71407	100	6/2/2006 1:04 PM
Surr: Dibromofluoromethane	78.0	70.4-123		%REC	71407	1	5/30/2006 12:45 AM
Surr: Dibromofluoromethane	96.3	70.4-123		%REC	71407	100	6/2/2006 1:04 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- BRL Below Reporting Limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated Method Blank

- E Estimated (Value above quantitation range)
- S Surrogate Recovery outside accepted recovery limits
- Narr See Case Narrative
- NC Not Confirmed

Analytical Environmental Services, Inc.

Date: 02-Jun-06

CLIENT: Environmental Strategies Corporation
Project: NL Atlanta
Lab ID: 0605G32-012

Client Sample ID: MW-100
Collection Date: 5/25/2006 4:00:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS							
		SW8260B			(SW5030B)		Analyst: HW
Surr: Dibromofluoromethane	82.3	70.4-123		%REC	71407	10	6/2/2006 11:24 AM
Surr: Toluene-d8	80.4	73.4-115		%REC	71407	1	5/30/2006 12:45 AM
Surr: Toluene-d8	88.1	73.4-115		%REC	71407	100	6/2/2006 1:04 PM
Surr: Toluene-d8	84.1	73.4-115		%REC	71407	10	6/2/2006 11:24 AM

Qualifiers: * Value exceeds Maximum Contaminant Level
BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
N Analyte not NELAC certified
B Analyte detected in the associated Method Blank

E Estimated (Value above quantitation range)
S Surrogate Recovery outside accepted recovery limits
Narr See Case Narrative
NC Not Confirmed

Analytical Environmental Services, Inc.

Date: 02-Jun-06

CLIENT: Environmental Strategies Corporation
Project: NL Atlanta
Lab ID: 0605G32-013

Client Sample ID: TRIP BLANK
Collection Date: 5/25/2006
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B		(SW5030B)	Analyst: HW		
1,1,1-Trichloroethane	BRL	5.0		µg/L	71407	1	5/29/2006 6:05 PM
1,1,2,2-Tetrachloroethane	BRL	5.0		µg/L	71407	1	5/29/2006 6:05 PM
1,1,2-Trichloroethane	BRL	5.0		µg/L	71407	1	5/29/2006 6:05 PM
1,1-Dichloroethane	BRL	5.0		µg/L	71407	1	5/29/2006 6:05 PM
1,1-Dichloroethene	BRL	5.0		µg/L	71407	1	5/29/2006 6:05 PM
1,2,4-Trichlorobenzene	BRL	5.0		µg/L	71407	1	5/29/2006 6:05 PM
1,2-Dibromo-3-chloropropane	BRL	5.0		µg/L	71407	1	5/29/2006 6:05 PM
1,2-Dibromoethane	BRL	5.0		µg/L	71407	1	5/29/2006 6:05 PM
1,2-Dichlorobenzene	BRL	5.0		µg/L	71407	1	5/29/2006 6:05 PM
1,2-Dichloroethane	BRL	5.0		µg/L	71407	1	5/29/2006 6:05 PM
1,2-Dichloropropane	BRL	5.0		µg/L	71407	1	5/29/2006 6:05 PM
1,3-Dichlorobenzene	BRL	5.0		µg/L	71407	1	5/29/2006 6:05 PM
1,4-Dichlorobenzene	BRL	5.0		µg/L	71407	1	5/29/2006 6:05 PM
2-Butanone	BRL	50		µg/L	71407	1	5/29/2006 6:05 PM
2-Hexanone	BRL	10		µg/L	71407	1	5/29/2006 6:05 PM
4-Methyl-2-pentanone	BRL	10		µg/L	71407	1	5/29/2006 6:05 PM
Acetone	BRL	50		µg/L	71407	1	5/29/2006 6:05 PM
Benzene	BRL	5.0		µg/L	71407	1	5/29/2006 6:05 PM
Bromodichloromethane	BRL	5.0		µg/L	71407	1	5/29/2006 6:05 PM
Bromoform	BRL	5.0		µg/L	71407	1	5/29/2006 6:05 PM
Bromomethane	BRL	5.0		µg/L	71407	1	5/29/2006 6:05 PM
Carbon disulfide	BRL	5.0		µg/L	71407	1	5/29/2006 6:05 PM
Carbon tetrachloride	BRL	5.0		µg/L	71407	1	5/29/2006 6:05 PM
Chlorobenzene	BRL	5.0		µg/L	71407	1	5/29/2006 6:05 PM
Chloroethane	BRL	10		µg/L	71407	1	5/29/2006 6:05 PM
Chloroform	BRL	5.0		µg/L	71407	1	5/29/2006 6:05 PM
Chloromethane	BRL	10		µg/L	71407	1	5/29/2006 6:05 PM
cis-1,2-Dichloroethene	BRL	5.0		µg/L	71407	1	5/29/2006 6:05 PM
cis-1,3-Dichloropropene	BRL	5.0		µg/L	71407	1	5/29/2006 6:05 PM
Cyclohexane	BRL	5.0		µg/L	71407	1	5/29/2006 6:05 PM
Dibromochloromethane	BRL	5.0		µg/L	71407	1	5/29/2006 6:05 PM
Dichlorodifluoromethane	BRL	10		µg/L	71407	1	5/29/2006 6:05 PM
Ethylbenzene	BRL	5.0		µg/L	71407	1	5/29/2006 6:05 PM
Freon-113	BRL	10		µg/L	71407	1	5/29/2006 6:05 PM
Isopropylbenzene	BRL	5.0		µg/L	71407	1	5/29/2006 6:05 PM
m,p-Xylene	BRL	10		µg/L	71407	1	5/29/2006 6:05 PM
Methyl acetate	BRL	5.0		µg/L	71407	1	5/29/2006 6:05 PM
Methyl tert-butyl ether	BRL	5.0		µg/L	71407	1	5/29/2006 6:05 PM
Methylcyclohexane	BRL	5.0		µg/L	71407	1	5/29/2006 6:05 PM
Methylene chloride	BRL	5.0		µg/L	71407	1	5/29/2006 6:05 PM
o-Xylene	BRL	5.0		µg/L	71407	1	5/29/2006 6:05 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- BRL Below Reporting Limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated Method Blank

- E Estimated (Value above quantitation range)
- S Surrogate Recovery outside accepted recovery limits
- Narr See Case Narrative
- NC Not Confirmed

Analytical Environmental Services, Inc.

Date: 02-Jun-06

CLIENT: Environmental Strategies Corporation
Project: NL Atlanta
Lab ID: 0605G32-013

Client Sample ID: TRIP BLANK
Collection Date: 5/25/2006
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS							
		SW8260B			(SW5030B)		Analyst: HW
Styrene	BRL	5.0		µg/L	71407	1	5/29/2006 6:05 PM
Tetrachloroethene	BRL	5.0		µg/L	71407	1	5/29/2006 6:05 PM
Toluene	BRL	5.0		µg/L	71407	1	5/29/2006 6:05 PM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	71407	1	5/29/2006 6:05 PM
trans-1,3-Dichloropropene	BRL	5.0		µg/L	71407	1	5/29/2006 6:05 PM
Trichloroethene	BRL	5.0		µg/L	71407	1	5/29/2006 6:05 PM
Trichlorofluoromethane	BRL	5.0		µg/L	71407	1	5/29/2006 6:05 PM
Vinyl chloride	BRL	2.0		µg/L	71407	1	5/29/2006 6:05 PM
Surr: 4-Bromofluorobenzene	73.3	63.7-115		%REC	71407	1	5/29/2006 6:05 PM
Surr: Dibromofluoromethane	94.7	70.4-123		%REC	71407	1	5/29/2006 6:05 PM
Surr: Toluene-d8	90.0	73.4-115		%REC	71407	1	5/29/2006 6:05 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
N Analyte not NELAC certified
B Analyte detected in the associated Method Blank

E Estimated (Value above quantitation range)
S Surrogate Recovery outside accepted recovery limits
Narr See Case Narrative
NC Not Confirmed

Analytical Environmental Services, Inc.

Date: 05-Jun-06

CLIENT: Environmental Strategies Corporation

Work Order: 0605G32

Project: NL Atlanta

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010B_W_T

Sample ID: MB-71418	SampType: MBLK	TestCode: 6010B_W_T	Units: mg/L	Prep Date: 5/31/2006	RunNo: 84772						
Client ID:	Batch ID: 71418	TestNo: SW6010B		Analysis Date: 5/31/2006	SeqNo: 1681763						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID: LCS-71418	SampType: LCS	TestCode: 6010B_W_T	Units: mg/L	Prep Date: 5/31/2006	RunNo: 84772						
Client ID:	Batch ID: 71418	TestNo: SW6010B		Analysis Date: 5/31/2006	SeqNo: 1681761						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID: 0605G14-002BMS	SampType: MS	TestCode: 6010B_W_T	Units: mg/L	Prep Date: 5/31/2006	RunNo: 84772						
Client ID:	Batch ID: 71418	TestNo: SW6010B		Analysis Date: 5/31/2006	SeqNo: 1681766						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID: 0605G14-002BMSD	SampType: MSD	TestCode: 6010B_W_T	Units: mg/L	Prep Date: 5/31/2006	RunNo: 84772						
Client ID:	Batch ID: 71418	TestNo: SW6010B		Analysis Date: 5/31/2006	SeqNo: 1681768						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Environmental Strategies Corporation
Work Order: 0605G32
Project: NL Atlanta

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010B_W_T

Sample ID: 0605G14-002BMSD		SampType: MSD	TestCode: 6010B_W_T		Units: mg/L	Prep Date: 5/31/2006		RunNo: 84772	
Client ID:		Batch ID: 71418	TestNo: SW6010B			Analysis Date: 5/31/2006		SeqNo: 1681768	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	Qual
Copper	1.009	0.0100	1	0.00277	101	75	125	1.01	20
Lead	0.9989	0.0100	1	0.003794	99.5	75	125	0.9995	20
Zinc	1.024	0.0200	1	0.01974	100	75	125	1.022	20

Qualifiers:		B	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
		H	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
		R	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Environmental Strategies Corporation
Work Order: 0605G32
Project: NL Atlanta

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260 TCL4.2_W

Sample ID: MB-71407	SampType: MBLK	TestCode: 8260_TCL4.2	Units: µg/L	Prep Date: 5/29/2006	RunNo: 84680						
Client ID:	Batch ID: 71407	TestNo: SW8260B		Analysis Date: 5/29/2006	SeqNo: 1679908						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

BRL Below Reporting Limit
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

E Value above quantitation range
N Analyte not NELAC certified

CLIENT: Environmental Strategies Corporation
 Work Order: 0605G32
 Project: NL Atlanta

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_TCL4.2_W

Sample ID: MIB-71407	SampleType: MBLK	TestCode: 8260_TCL4.2	Units: µg/L	Prep Date: 5/29/2006	RunNo: 84680						
Client ID:	Batch ID: 71407	TestNo: SW8260B		Analysis Date: 5/29/2006	SeqNo: 1679908						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	10									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	39.09	0	50	0	78.2	63.7	115	0	0	0	
Surr: Dibromofluoromethane	47.02	0	50	0	94	70.4	123	0	0	0	
Surr: Toluene-d8	42.7	0	50	0	85.4	73.4	115	0	0	0	

Sample ID: LCS-71407	SampleType: LCS	TestCode: 8260_TCL4.2	Units: µg/L	Prep Date: 5/29/2006	RunNo: 84680						
Client ID:	Batch ID: 71407	TestNo: SW8260B		Analysis Date: 5/29/2006	SeqNo: 1679909						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1-Dichloroethene	57.71	5.0	50	0	115	65.4	159	0	0	0	
Benzene	49.55	5.0	50	0	99.1	77.4	127	0	0	0	
Chlorobenzene	50.96	5.0	50	0	102	79.9	124	0	0	0	
Toluene	50.2	5.0	50	0	100	79.6	127	0	0	0	

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H		Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R		RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Environmental Strategies Corporation
 Work Order: 0605G32
 Project: NL Atlanta

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_TCL4.2_W

Sample ID: LCS-71407	SampType: LCS	TestCode: 8260_TCL4.2	Units: µg/L	Prep Date: 5/29/2006	RunNo: 84680
Client ID:	Batch ID: 71407	TestNo: SW8260B		Analysis Date: 5/29/2006	SeqNo: 1679909

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichloroethene	52.76	5.0	50	0	106	73.2	134	0	0	0	
Surr: 4-Bromofluorobenzene	38.34	0	50	0	76.7	63.7	115	0	0	0	
Surr: Dibromofluoromethane	43.06	0	50	0	86.1	70.4	123	0	0	0	
Surr: Toluene-d8	42.1	0	50	0	84.2	73.4	115	0	0	0	

Sample ID: 0605F65-003AMS	SampType: MS	TestCode: 8260_TCL4.2	Units: µg/L	Prep Date: 5/29/2006	RunNo: 84680
Client ID:	Batch ID: 71407	TestNo: SW8260B		Analysis Date: 5/29/2006	SeqNo: 1679911

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	58.71	5.0	50	0	117	58.9	163	0	0	0	
Benzene	49.81	5.0	50	0	99.6	72.6	130	0	0	0	
Chlorobenzene	51.72	5.0	50	0	103	75.8	126	0	0	0	
Toluene	50.42	5.0	50	0	101	74.7	129	0	0	0	
Trichloroethene	52.81	5.0	50	1.19	103	70	134	0	0	0	
Surr: 4-Bromofluorobenzene	39.39	0	50	0	78.8	63.7	115	0	0	0	
Surr: Dibromofluoromethane	44.95	0	50	0	89.9	70.4	123	0	0	0	
Surr: Toluene-d8	42.29	0	50	0	84.6	73.4	115	0	0	0	

Sample ID: 0605F65-003AMSD	SampType: MSD	TestCode: 8260_TCL4.2	Units: µg/L	Prep Date: 5/29/2006	RunNo: 84680
Client ID:	Batch ID: 71407	TestNo: SW8260B		Analysis Date: 5/29/2006	SeqNo: 1679920

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	54.7	5.0	50	0	109	58.9	163	58.71	7.07	15.8	
Benzene	47.83	5.0	50	0	95.7	72.6	130	49.81	4.06	10	
Chlorobenzene	49.81	5.0	50	0	99.6	75.8	126	51.72	3.76	10	
Toluene	49.17	5.0	50	0	98.3	74.7	129	50.42	2.51	10	
Trichloroethene	50.24	5.0	50	1.19	98.1	70	134	52.81	4.99	11	
Surr: 4-Bromofluorobenzene	37.9	0	50	0	75.8	63.7	115	39.39	0	0	
Surr: Dibromofluoromethane	43.46	0	50	0	86.9	70.4	123	44.95	0	0	
Surr: Toluene-d8	42.07	0	50	0	84.1	73.4	115	42.29	0	0	

Qualifiers:	B	A	E	Value above quantitation range
	H	J	N	Analyte not NELAC certified
	R	S		Analyte detected below quantitation limits
				Spike Recovery outside accepted recovery limits

CLIENT: Environmental Strategies Corporation
 Work Order: 0605G32
 Project: NL Atlanta

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_PAH_W

Sample ID: MB-71369	SampleType: MBLK	TestCode: 8270_PAH_W	Units: µg/L	Prep Date: 5/30/2006	RunNo: 84778						
Client ID:	Batch ID: 71369	TestNo: SW8270C		Analysis Date: 5/31/2006	SeqNo: 1681915						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1-Methylnaphthalene	BRL	10									
2-Methylnaphthalene	BRL	10									
Acenaphthene	BRL	10									
Acenaphthylene	BRL	10									
Anthracene	BRL	10									
Benz(a)anthracene	BRL	10									
Benzo(a)pyrene	BRL	10									
Benzo(b)fluoranthene	BRL	10									
Benzo(g,h,i)perylene	BRL	10									
Benzo(k)fluoranthene	BRL	10									
Chrysene	BRL	10									
Dibenz(a,h)anthracene	BRL	10									
Fluoranthene	BRL	10									
Fluorene	BRL	10									
Indeno(1,2,3-cd)pyrene	BRL	10									
Naphthalene	BRL	10									
Phenanthrene	BRL	10									
Pyrene	BRL	10									
Surr: 2-Fluorobiphenyl	38.14	0	50	0	76.3	46.6	115	0	0	0	
Surr: 4-Terphenyl-d14	46.55	0	50	0	93.1	55.9	118	0	0	0	
Surr: Nitrobenzene-d5	33.82	0	50	0	67.6	29.9	115	0	0	0	

Sample ID: LCS-71369	SampleType: LCS	TestCode: 8270_PAH_W	Units: µg/L	Prep Date: 5/30/2006	RunNo: 84778						
Client ID:	Batch ID: 71369	TestNo: SW8270C		Analysis Date: 5/31/2006	SeqNo: 1681916						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	37.82	10	50	0	75.6	63.6	120	0	0		
Acenaphthylene	37.1	10	50	0	74.2	61.3	118	0	0		
Anthracene	43.02	10	50	0	86	69	120	0	0		
Benz(a)anthracene	41.46	10	50	0	82.9	65.7	120	0	0		

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	J	Analyte detected below quantitation limits	E	Value above quantitation range
H		Holding times for preparation or analysis exceeded					N	Analyte not NELAC certified
R		RPD outside accepted recovery limits			S	Spike Recovery outside accepted recovery limits		

CLIENT: Environmental Strategies Corporation
 Work Order: 0605G32
 Project: NL Atlanta

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_PAH_W

Sample ID: LCS-71369	SampType: LCS	TestCode: 8270_PAH_W	Units: µg/L	Prep Date: 5/30/2006	RunNo: 84778						
Client ID:	Batch ID: 71369	TestNo: SW8270C		Analysis Date: 5/31/2006	SeqNo: 1681916						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(a)pyrene	40.03	10	50	0	80.1	67.4	120	0	0		
Benzo(b)fluoranthene	40.34	10	50	0	80.7	57.4	120	0	0		
Benzo(g,h,i)perylene	41.35	10	50	0	82.7	57.7	120	0	0		
Benzo(k)fluoranthene	38.43	10	50	0	76.9	71.1	120	0	0		
Chrysene	44.35	10	50	0	88.7	70.6	120	0	0		
Dibenz(a,h)anthracene	40.14	10	50	0	80.3	59	120	0	0		
Fluoranthene	44.01	10	50	0	88	64.3	120	0	0		
Fluorene	40.91	10	50	0	81.8	65.6	120	0	0		
Indeno(1,2,3-cd)pyrene	40.57	10	50	0	81.1	52.2	120	0	0		
Naphthalene	34.95	10	50	0	69.9	57.9	120	0	0		
Phenanthrene	41.05	10	50	0	82.1	68.8	120	0	0		
Pyrene	43.83	10	50	0	87.7	67.6	120	0	0		
Surr: 2-Fluorobiphenyl	39.71	0	50	0	79.4	46.6	115	0	0		
Surr: 4-Terphenyl-d14	44.22	0	50	0	88.4	55.9	118	0	0		
Surr: Nitrobenzene-d5	24.79	0	50	0	49.6	29.9	115	0	0		

Sample ID: 0605G32-003CMS	SampType: MS	TestCode: 8270_PAH_W	Units: µg/L	Prep Date: 5/30/2006	RunNo: 84778						
Client ID: MW-5	Batch ID: 71369	TestNo: SW8270C		Analysis Date: 5/31/2006	SeqNo: 1682184						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	35.95	10	50	0	71.9	36.2	109	0	0		
Acenaphthylene	34.22	10	50	0	68.4	30.5	133	0	0		
Anthracene	39.27	10	50	0	78.5	54.2	110	0	0		
Benz(a)anthracene	40.06	10	50	0	80.1	56.3	110	0	0		
Benzo(a)pyrene	38.85	10	50	0	77.7	44.8	122	0	0		
Benzo(b)fluoranthene	38.18	10	50	0	76.4	45.4	112	0	0		
Benzo(g,h,i)perylene	40.26	10	50	0	80.5	38	124	0	0		
Benzo(k)fluoranthene	37.83	10	50	0	75.7	55.7	121	0	0		
Chrysene	42.13	10	50	0	84.3	61	114	0	0		
Dibenz(a,h)anthracene	38.85	10	50	0	77.7	47.6	113	0	0		

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

BRL Below Reporting Limit
 J Analyte detected below quantitation limits
 S Spike Recovery outside accepted recovery limits

E Value above quantitation range
 N Analyte not NELAC certified

CLIENT: Environmental Strategies Corporation
 Work Order: 0605G32
 Project: NL Atlanta

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_PAH_W

Sample ID: 0605G32-003CMS		SampType: MS		TestCode: 8270_PAH_W		Units: µg/L		Prep Date: 5/30/2006		RunNo: 84778			
Client ID: MW-5		Batch ID: 71369		TestNo: SW8270C		Analysis Date: 5/31/2006						SeqNo: 1682184	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual		
Fluoranthene	40.77	10	50	0	81.5	57.4	104	0	0				
Fluorene	38.17	10	50	0	76.3	42.9	114	0	0				
Indeno(1,2,3-cd)pyrene	39.03	10	50	0	78.1	44	118	0	0				
Naphthalene	30.82	10	50	0	61.6	13.5	127	0	0				
Phenanthrene	39.18	10	50	0	78.4	53.5	111	0	0				
Pyrene	42.53	10	50	0	85.1	55	118	0	0				
Surr: 2-Fluorobiphenyl	36.77	0	50	0	73.5	46.6	115	0	0				
Surr: 4-Terphenyl-d14	41.93	0	50	0	83.9	55.9	118	0	0				
Surr: Nitrobenzene-d5	30.63	0	50	0	61.3	29.9	115	0	0				

Sample ID: 0605G32-003CMSD	SampType: MSD	TestCode: 8270_PAH_W	Units: µg/L	Prep Date: 5/30/2006	RunNo: 84778						
Client ID: MW-5	Batch ID: 71369	TestNo: SW8270C		Analysis Date: 5/31/2006	SeqNo: 1682191						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	33.5	10	50	0	67	36.2	109	35.95	7.06	31.9	
Acenaphthylene	31.73	10	50	0	63.5	30.5	133	34.22	7.55	32	
Anthracene	37.61	10	50	0	75.2	54.2	110	39.27	4.32	24	
Benz(a)anthracene	40.57	10	50	0	81.1	56.3	110	40.06	1.27	25.6	
Benzo(a)pyrene	37.9	10	50	0	75.8	44.8	122	38.85	2.48	28.9	
Benzo(b)fluoranthene	38.17	10	50	0	76.3	45.4	112	38.18	0.0262	27.3	
Benzo(g,h,i)perylene	38.67	10	50	0	77.3	38	124	40.26	4.03	31.1	
Benzo(k)fluoranthene	38.34	10	50	0	76.7	55.7	121	37.83	1.34	29.6	
Chrysene	42.6	10	50	0	85.2	61	114	42.13	1.11	27.1	
Dibenz(a,h)anthracene	38.02	10	50	0	76	47.6	113	38.85	2.16	33.6	
Fluoranthene	40.31	10	50	0	80.6	57.4	104	40.77	1.13	21.2	
Fluorene	36.07	10	50	0	72.1	42.9	114	38.17	5.66	31.2	
Indeno(1,2,3-cd)pyrene	38.95	10	50	0	77.9	44	118	39.03	0.205	30.7	
Naphthalene	29.64	10	50	0	59.3	13.5	127	30.82	3.90	33.6	
Phenanthrene	37.77	10	50	0	75.5	53.5	111	39.18	3.66	24	
Pyrene	42.83	10	50	0	85.7	55	118	42.53	0.703	21.5	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits
 BRL Below Reporting Limit
 J Analyte detected below quantitation limits
 S Spike Recovery outside accepted recovery limits
 E Value above quantitation range
 N Analyte not NELAC certified

CLIENT: Environmental Strategies Corporation
Work Order: 0605G32
Project: NL Atlanta

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_PAH_W

Sample ID: 0605G32-003CMSD	SampType: MSD	TestCode: 8270_PAH_W	Units: µg/L	Prep Date: 5/30/2006	RunNo: 84778						
Client ID: MW-5	Batch ID: 71369	TestNo: SW8270C		Analysis Date: 5/31/2006	SeqNo: 1682191						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	32.09	0	50	0	64.2	46.6	115	36.77	0	0	
Surr: 4-Terphenyl-d14	41.23	0	50	0	82.5	55.9	118	41.93	0	0	
Surr: Nitrobenzene-d5	21	0	50	0	42	29.9	115	30.63	0	0	

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H		Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R		RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

June 29, 2006

GiGi Beaulieu
Environmental Strategies Corporation
11911 Freedom Drive
Reston, VA 20190
TEL: (978) 635-9600
FAX (978) 264-0537
RE: NL/Atlanta, GA

Order No.: 0606E02

Dear GiGi Beaulieu:

Analytical Environmental Services, Inc. received 4 samples on 6/23/2006 2:01:00 PM for the analyses presented in the following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative. Sample results are not dry weight corrected, unless if Pmoist analysis are requested on the chain of custody or other project specific arrangements have been made.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water, effective 06/01/05-06/30/06.
- AIHA Certification number 505 for analysis of Industrial Hygiene samples (Organics, Inorganics), Paint Chips, Soil and Dust Wipes, effective until 02/01/07.

These results relate only to the items tested. This report may only be reproduced in full and contains 9 total pages (including cover letter).

If you have any questions regarding these test results, please feel free to call.

Sincerely,

James Forrest
Project Manager

CHAIN OF CUSTODY RECORD

[illegible]

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Env Strategies

Work Order Number 0606 E02

Checklist completed by Mary Robinson 6-22-6
Signature Date

Carrier name: FedEx ☐ UPS ☐ Courier ☐ Client ☒ US Mail ☐ Other ☐

Shipping container/cooler in good condition? Yes ☒ No ☐ Not Present ☐

Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒

Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒

Container/Temp Blank temperature in compliance? ($4^{\circ}\text{C} \pm 2$)* Yes ☒ No ☐

Cooler #1 3.1 Cooler #2 ☐ Cooler #3 ☐ Cooler #4 ☐ Cooler #5 ☐ Cooler #6 ☐

Chain of custody present? Yes ☒ No ☐

Chain of custody signed when relinquished and received? Yes ☒ No ☐

Chain of custody agrees with sample labels? Yes ☒ No ☐

Samples in proper container/bottle? Yes ☒ No ☐

Sample containers intact? Yes ☒ No ☐

Sufficient sample volume for indicated test? Yes ☒ No ☐

All samples received within holding time? Yes ☒ No ☐

Was TAT marked on the COC? Yes ☒ No ☐

Proceed with Standard TAT as per project history? Yes ☐ No ☐ Not Applicable ☒

Water - VOA vials have zero headspace? No VOA vials submitted ☒ Yes ☐ No ☐

Water - pH acceptable upon receipt? Yes ☒ No ☐ Not Applicable ☐

Adjusted? ☐ Checked by MR

Sample Condition: Good ☒ Other(Explain) ☐

(For diffusive samples or AIHA lead) Is a known blank included? Yes ☐ No ☒

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

C:\Documents and Settings\Chemist\Desktop\Checklist.rtf

Analytical Environmental Services, Inc.

Date: 29-Jun-06

CLIENT: Environmental Strategies Corporation**Client Sample ID:** MW-7D**Project:** NL/Atlanta, GA**Collection Date:** 6/22/2006 5:45:00 PM**Lab ID:** 0606E02-001**Matrix:** AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
METALS, TOTAL			SW6010B		(SW3010A)		Analyst: AO
Cadmium	0.0688	0.0050		mg/L	72363	1	6/27/2006 4:48 PM
Copper	0.139	0.0100		mg/L	72363	1	6/27/2006 4:48 PM
Lead	0.159	0.0100		mg/L	72363	1	6/27/2006 4:48 PM
Zinc	0.955	0.0200		mg/L	72363	1	6/27/2006 4:48 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- BRL Below Reporting Limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated Method Blank

- E Estimated (Value above quantitation range)
- S Surrogate Recovery outside accepted recovery limits
- Narr See Case Narrative
- NC Not Confirmed

Analytical Environmental Services, Inc.

Date: 29-Jun-06

CLIENT: Environmental Strategies Corporation**Client Sample ID:** MW-11**Project:** NL/Atlanta, GA**Collection Date:** 6/23/2006 10:20:00 AM**Lab ID:** 0606E02-002**Matrix:** AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
METALS, TOTAL			SW6010B		(SW3010A)		Analyst: AO
Zinc	BRL	0.0200		mg/L	72363	1	6/27/2006 4:52 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- BRL Below Reporting Limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated Method Blank

- E Estimated (Value above quantitation range)
- S Surrogate Recovery outside accepted recovery limits
- Narr See Case Narrative
- NC Not Confirmed

Analytical Environmental Services, Inc.

Date: 29-Jun-06

CLIENT: Environmental Strategies Corporation**Client Sample ID:** MW-12**Project:** NL/Atlanta, GA**Collection Date:** 6/23/2006 12:35:00 PM**Lab ID:** 0606E02-003**Matrix:** AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
METALS, TOTAL			SW6010B		(SW3010A)		Analyst: AO
Cadmium	BRL	0.0050		mg/L	72363	1	6/27/2006 4:56 PM
Copper	BRL	0.0100		mg/L	72363	1	6/27/2006 4:56 PM
Lead	BRL	0.0100		mg/L	72363	1	6/27/2006 4:56 PM
Zinc	BRL	0.0200		mg/L	72363	1	6/27/2006 4:56 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- BRL Below Reporting Limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated Method Blank

- E Estimated (Value above quantitation range)
- S Surrogate Recovery outside accepted recovery limits
- Narr See Case Narrative
- NC Not Confirmed

Analytical Environmental Services, Inc.

Date: 29-Jun-06

CLIENT: Environmental Strategies Corporation**Client Sample ID:** MW-201**Project:** NL/Atlanta, GA**Collection Date:** 6/23/2006 1:00:00 PM**Lab ID:** 0606E02-004**Matrix:** AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
METALS, TOTAL			SW6010B		(SW3010A)		Analyst: AO
Cadmium	BRL	0.0050		mg/L	72363	1	6/27/2006 5:00 PM
Copper	BRL	0.0100		mg/L	72363	1	6/27/2006 5:00 PM
Lead	BRL	0.0100		mg/L	72363	1	6/27/2006 5:00 PM
Zinc	BRL	0.0200		mg/L	72363	1	6/27/2006 5:00 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- BRL Below Reporting Limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated Method Blank

- E Estimated (Value above quantitation range)
- S Surrogate Recovery outside accepted recovery limits
- Narr See Case Narrative
- NC Not Confirmed

CLIENT: Environmental Strategies Corporation
 Work Order: 0606E02
 Project: NL/Atlanta, GA

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010B_W_T

Sample ID: MB-72363	SampType: MBLK	TestCode: 6010B_W_T	Units: mg/L	Prep Date: 6/26/2006	RunNo: 86232						
Client ID:	Batch ID: 72363	TestNo: SW6010B		Analysis Date: 6/27/2006	SeqNo: 1711224						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Cadmium BRL 0.00500
 Copper BRL 0.0100
 Lead BRL 0.0100
 Zinc BRL 0.0200

Sample ID: LCS-72363	SampType: LCS	TestCode: 6010B_W_T	Units: mg/L	Prep Date: 6/26/2006	RunNo: 86232						
Client ID:	Batch ID: 72363	TestNo: SW6010B		Analysis Date: 6/27/2006	SeqNo: 1711223						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Cadmium 1.062 0.00500 1 0 0 106 85 115 0 0
 Copper 1.052 0.0100 1 0 0 105 85 115 0 0
 Lead 1.052 0.0100 1 0 0 105 85 115 0 0
 Zinc 1.062 0.0200 1 0 0 106 85 115 0 0

Sample ID: 0606C40-001AMS	SampType: MS	TestCode: 6010B_W_T	Units: mg/L	Prep Date: 6/26/2006	RunNo: 86232						
Client ID:	Batch ID: 72363	TestNo: SW6010B		Analysis Date: 6/27/2006	SeqNo: 1711227						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Cadmium 1.069 0.00500 1 0 0 107 75 125 0 0
 Copper 1.051 0.0100 1 0 0 105 75 125 0 0
 Lead 1.052 0.0100 1 0 0 105 75 125 0 0
 Zinc 1.08 0.0200 1 0.007813 0 107 75 125 0 0

Sample ID: 0606C40-001AMSD	SampType: MSD	TestCode: 6010B_W_T	Units: mg/L	Prep Date: 6/26/2006	RunNo: 86232						
Client ID:	Batch ID: 72363	TestNo: SW6010B		Analysis Date: 6/27/2006	SeqNo: 1711229						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	1.051	0.00500	1	0	105	75	125	1.069	1.70	20	

Cadmium 1.051 0.00500 1 0 0 105 75 125 1.069 1.70 20

Qualifiers: B Analyte detected in the associated Method Blank BRL Below Reporting Limit E Value above quantitation range
 H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits N Analyte not NELAC certified
 R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

CLIENT: Environmental Strategies Corporation
Work Order: 0606E02
Project: NL/Atlanta, GA

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010B_W_T

Sample ID: 0606C40-001AMSD		SampType: MSD	TestCode: 6010B_W_T		Units: mg/L	Prep Date: 6/26/2006		RunNo: 86232			
Client ID:		Batch ID: 72363	TestNo: SW6010B			Analysis Date: 6/27/2006		SeqNo: 1711229			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	1.035	0.0100	1	0	104	75	125	1.051	1.50	20	
Lead	1.037	0.0100	1	0	104	75	125	1.052	1.45	20	
Zinc	1.061	0.0200	1	0.007813	105	75	125	1.08	1.86	20	

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

July 27, 2006

GiGi Beaulieu
Environmental Strategies Corporation
1740 Massachusetts Avenue
Boxborough, MA 07179
TEL: (978) 808-4612
FAX: (978) 264-0537
RE: NL

Order No.: 0607A49

Dear GiGi Beaulieu:

Analytical Environmental Services, Inc. received 1 sample on 7/21/2006 1:30:00 PM for the analyses presented in the following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative. Sample results are not dry weight corrected, unless if Pmoist analysis are requested on the chain of custody or other project specific arrangements have been made. AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water, effective 06/01/06-06/30/07.
- AIHA Certification number 505 for analysis of Industrial Hygiene samples (Organics, Inorganics), Paint Chips, Soil and Dust Wipes, effective until 02/01/07.

These results relate only to the items tested. This report may only be reproduced in full and contains 7 total pages (including cover letter).

If you have any questions regarding these test results, please feel free to call.

Sincerely,

James Forrest
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3785 Presidential Parkway, Atlanta GA 30340-3704

AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 0607A449

Date: 7-21-06 Page 1 of 1

COMPANY: <u>Environmental Strategies Consulting</u>		ADDRESS: <u>Mass.</u>		ANALYSIS REQUESTED		REMARKS		No # of Containers	
PHONE: <u>978-635-9600</u>		FAX: <u>978-635-9600</u>		SIGNATURE: <u>Catherine London</u>		PRESERVATION (See codes)		Visit our website <u>www.aesatlanta.com</u> to check on the status of your results, place bottle orders, etc.	
SAMPLED BY: <u>Catherine London</u>		SIGNED: <u>Edward London</u>		DATE: <u>7-21-06</u> TIME: <u>12:30</u>		DATE: <u>7-21-06</u> TIME: <u>12:30</u>			
#	SAMPLE ID	DATE	TIME	Grab	Composite	Matrix			
1	MW-7E	7-21-06	12:30	X	-	GW	VVVV		
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
<u>Edward London</u>	<u>7-21-06 13:45</u>	<u>Ed. / Li</u>	<u>7/21/06 1:30</u>

SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD	
		OUT / /	VIA:
		IN / /	VIA:
		CLIENT FedEx UPS MAIL	
		GREYHOUND OTHER	

PROJECT INFORMATION		RECEIPT	
PROJECT NAME: <u>NL</u>		Total # of Containers	
PROJECT #: <u>12</u>			
SITE ADDRESS: <u>430 Bishop St.</u>			
SEND REPORT TO: <u>Gigi Beaulieu</u>			
INVOICE TO: (IF DIFFERENT FROM ABOVE)			
QUOTE #:			
PO#:			
STATE PROGRAM (if any):			
E-mail? Y / N, Fax? Y / N			
DATA PACKAGE: I II III IV			

TURNAROUND TIME REQUEST	
<input checked="" type="checkbox"/> Standard 5 Business Days	
<input type="checkbox"/> 2 Business Day Rush	
<input type="checkbox"/> Next Business Day Rush	
<input type="checkbox"/> Same Day Rush (auth req.)	
<input type="checkbox"/> Other	

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) O = Other (specify)

PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Env Strategies

Work Order Number 0607A49

Checklist completed by Harun Erdem 7/21/06
Signature Date

Carrier name: FedEx ☐ UPS ☐ Courier ☒ Client ☐ US Mail ☐ Other ☐

Shipping container/cooler in good condition? Yes ☒ No ☐ Not Present ☐

Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒

Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒

Container/Temp Blank temperature in compliance? (4°C±2)* Yes ☒ No ☐

Cooler #1 4.0°C Cooler #2 ☐ Cooler #3 ☐ Cooler #4 ☐ Cooler #5 ☐ Cooler #6 ☐

Chain of custody present? Yes ☒ No ☐

Chain of custody signed when relinquished and received? Yes ☒ No ☐

Chain of custody agrees with sample labels? Yes ☒ No ☐

Samples in proper container/bottle? Yes ☒ No ☐

Sample containers intact? Yes ☒ No ☐

Sufficient sample volume for indicated test? Yes ☒ No ☐

All samples received within holding time? Yes ☒ No ☐

Was TAT marked on the COC? Yes ☒ No ☐

Proceed with Standard TAT as per project history? Yes ☐ No ☐ Not Applicable ☒

Water - VOA vials have zero headspace? No VOA vials submitted ☒ Yes ☐ No ☐

Water - pH acceptable upon receipt? Yes ☐ No ☒ Not Applicable ☐

Adjusted? ☐ Checked by HE

Sample Condition: Good ☒ Other(Explain) ☐

(For diffusive samples or AIHA lead) Is a known blank included? Yes ☐ No ☒

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

CLIENT: Environmental Strategies Corporation

Project: NL

Lab Order: 0607A49

CASE NARRATIVE

Sample/Cooler Receipt Non-Conformance:

Sample was received with a pH above method required limit of <2. No attempt to adjust pH was made due to sample matrix.

Analytical Environmental Services, Inc.

Date: 27-Jul-06

CLIENT: Environmental Strategies Corporation
Lab Order: 0607A49
Project: NL
Lab ID: 0607A49-001A

Client Sample ID: MW-7E
Tag Number:
Collection Date: 7/21/2006 12:30:00 PM
Matrix: GROUNDWATER

Analyses	Result	Limit	Qual	Units	BatchID	DF	Date Analyzed
METALS, TOTAL		SW6010B			(SW3010A)		Analyst: BB
Cadmium	BRL	0.0050		mg/L	73426	1	7/25/2006 9:59:55 AM
Copper	0.111	0.0100		mg/L	73426	1	7/25/2006 9:59:55 AM
Lead	0.0125	0.0100		mg/L	73426	1	7/25/2006 9:59:55 AM
Zinc	0.228	0.0200		mg/L	73426	1	7/25/2006 9:59:55 AM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	N	Analyte not NELAC certified	P	NELAC analyte certification pending
	Rpt Limit	Reporting Limit	S	Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: 27-Jul-06

CLIENT: Environmental Strategies Corporation
 Work Order: 0607A49
 Project: NL

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010B_W_T

Sample ID: MB-73426	SampType: MBLK	TestCode: 6010B_W_T	Units: mg/L	Prep Date: 7/24/2006	RunNo: 87814						
Client ID:	Batch ID: 73426	TestNo: SW6010B		Analysis Date: 7/25/2006	SeqNo: 1745194						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Cadmium	BRL	0.00500									
Copper	BRL	0.0100									
Lead	BRL	0.0100									
Zinc	BRL	0.0200									

Sample ID: LCS-73426	SampType: LCS	TestCode: 6010B_W_T	Units: mg/L	Prep Date: 7/24/2006	RunNo: 87814						
Client ID:	Batch ID: 73426	TestNo: SW6010B		Analysis Date: 7/25/2006	SeqNo: 1745193						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Cadmium	1.03	0.00500	1	0	103	85	115	0	0		
Copper	1.027	0.0100	1	0	103	85	115	0	0		
Lead	1.025	0.0100	1	0	102	85	115	0	0		
Zinc	1.028	0.0200	1	0	103	85	115	0	0		

Sample ID: 0607A58-006BMS	SampType: MS	TestCode: 6010B_W_T	Units: mg/L	Prep Date: 7/24/2006	RunNo: 87814						
Client ID:	Batch ID: 73426	TestNo: SW6010B		Analysis Date: 7/25/2006	SeqNo: 1745196						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Cadmium	1.011	0.00500	1	0	101	75	125	0	0		
Copper	1.004	0.0100	1	0.002753	100	75	125	0	0		
Lead	0.9682	0.0100	1	0	96.8	75	125	0	0		
Zinc	1.018	0.0200	1	0.03601	98.2	75	125	0	0		

Sample ID: 0607A58-006BMSD	SampType: MSD	TestCode: 6010B_W_T	Units: mg/L	Prep Date: 7/24/2006	RunNo: 87814						
Client ID:	Batch ID: 73426	TestNo: SW6010B		Analysis Date: 7/25/2006	SeqNo: 1745197						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Cadmium	1.034	0.00500	1	0	103	75	125	1.011	2.30	20	
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Qualifiers: B Analyte detected in the associated Method Blank BRL Below Reporting Limit E Value above quantitation range
 H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits N Analyte not NELAC certified
 R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

CLIENT: Environmental Strategies Corporation
Work Order: 0607A49
Project: NL

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010B_W_T

Sample ID: 0607A58-006BMSD		SampType: MSD	TestCode: 6010B_W_T		Units: mg/L	Prep Date: 7/24/2006		RunNo: 87814			
Client ID:		Batch ID: 73426	TestNo: SW6010B			Analysis Date: 7/25/2006		SeqNo: 1745197			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	1.021	0.0100	1	0.002753	102	75	125	1.004	1.71	20	
Lead	0.9827	0.0100	1	0	98.3	75	125	0.9682	1.49	20	
Zinc	1.037	0.0200	1	0.03601	100	75	125	1.018	1.84	20	

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

June 04, 2009

Gigi Beaulieu
WSP Environmental Strategies Corp
11190 Sunrise Valley Drive, Suite 300
Reston, VA 20191

TEL: (978) 635-9600

FAX: (978) 264-0537

RE: NL/Atlanta

Dear Gigi Beaulieu:

Order No.: 0905J28

Analytical Environmental Services, Inc. received 13 samples on 5/28/2009 12:30:00 PM for the analyses presented in the following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/08-06/30/09.
- AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 08/01/09.

These results relate only to the items tested. This report may only be reproduced in full and contains 20 total pages (including cover letter).

If you have any questions regarding these test results, please feel free to call.

Sincerely,


James Forrest
 Project Manager

[illegible]

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client WSP Env.

Work Order Number 0905528

Checklist completed by [Signature] 5/29/09
Signature Date

Carrier name: FedEx ☐ UPS ☐ Courier ☐ Client ☒ US Mail ☐ Other ☐

Shipping container/cooler in good condition? Yes ☒ No ☐ Not Present ☐

Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒

Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒

Container/Temp Blank temperature in compliance? ($4^{\circ}\text{C} \pm 2$)* Yes ☒ No ☐

Cooler #1 3.1°C Cooler #2 ☐ Cooler #3 ☐ Cooler #4 ☐ Cooler #5 ☐ Cooler #6 ☐

Chain of custody present? Yes ☒ No ☐

Chain of custody signed when relinquished and received? Yes ☒ No ☐

Chain of custody agrees with sample labels? Yes ☒ No ☐

Samples in proper container/bottle? Yes ☒ No ☐

Sample containers intact? Yes ☒ No ☐

Sufficient sample volume for indicated test? Yes ☒ No ☐

All samples received within holding time? Yes ☒ No ☐

Was TAT marked on the COC? Yes ☒ No ☐

Proceed with Standard TAT as per project history? Yes ☐ No ☐ Not Applicable ☒

Water - VOA vials have zero headspace? No VOA vials submitted ☐ Yes ☒ No ☐

Water - pH acceptable upon receipt? Yes ☒ No ☐ Not Applicable ☐

Adjusted? ☐ Checked by [Signature]

Sample Condition: Good ☒ Other(Explain) ☐

(For diffusive samples or AIHA lead) Is a known blank included? Yes ☐ No ☒

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

\\Quality Assurance\Checklists Procedures Sign-Off Templates\Checklists\Sample Receipt Checklists\Sample_Cooler_Receipt_Checklist

Analytical Environmental Services, Inc.

Date: 04-Jun-09

CLIENT: WSP Environmental Strategies Corp**Client Sample ID:** MW-5**Project:** NL/Atlanta**Collection Date:** 5/27/2009 8:55:00 AM**Lab ID:** 0905J28-001**Matrix:** GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
METALS, TOTAL	SW6010C				(SW3010A)		Analyst: JY
Cadmium	BRL	0.0050		mg/L	113937	1	6/3/2009 4:16 PM
Copper	BRL	0.0100		mg/L	113937	1	6/3/2009 4:16 PM
Lead	BRL	0.0100		mg/L	113937	1	6/3/2009 4:16 PM
Zinc	BRL	0.0200		mg/L	113937	1	6/3/2009 4:16 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- BRL Below Reporting Limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated Method Blank
- > Greater than Result value

- E Estimated (Value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See Case Narrative
- NC Not Confirmed
- < Less than Result value

Analytical Environmental Services, Inc.

Date: 04-Jun-09

CLIENT: WSP Environmental Strategies Corp

Client Sample ID: MW-4

Project: NL/Atlanta

Collection Date: 5/27/2009 9:30:00 AM

Lab ID: 0905J28-002

Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
METALS, TOTAL					(SW3010A)		Analyst: JY
Cadmium	BRL	0.0050		mg/L	113937	1	6/4/2009 9:25 AM
Copper	BRL	0.0100		mg/L	113937	1	6/4/2009 9:25 AM
Lead	BRL	0.0100		mg/L	113937	1	6/4/2009 9:25 AM
Zinc	BRL	0.0200		mg/L	113937	1	6/4/2009 9:25 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level
BRL	Below Reporting Limit
H	Holding times for preparation or analysis exceeded
N	Analyte not NELAC certified
B	Analyte detected in the associated Method Blank
>	Greater than Result value

E	Estimated (Value above quantitation range)
S	Spike Recovery outside limits due to matrix
Narr	See Case Narrative
NC	Not Confirmed
<	Less than Result value

Analytical Environmental Services, Inc.

Date: 04-Jun-09

CLIENT: WSP Environmental Strategies Corp**Client Sample ID:** MW-3**Project:** NL/Atlanta**Collection Date:** 5/27/2009 10:05:00 AM**Lab ID:** 0905J28-003**Matrix:** GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
METALS, TOTAL					(SW3010A)		Analyst: JY
Cadmium	BRL	0.0050		mg/L	113937	1	6/4/2009 9:28 AM
Copper	BRL	0.0100		mg/L	113937	1	6/4/2009 9:28 AM
Lead	BRL	0.0100		mg/L	113937	1	6/4/2009 9:28 AM
Zinc	0.0701	0.0200		mg/L	113937	1	6/4/2009 9:28 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- BRL Below Reporting Limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated Method Blank
- > Greater than Result value

- E Estimated (Value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See Case Narrative
- NC Not Confirmed
- < Less than Result value

Analytical Environmental Services, Inc.

Date: 04-Jun-09

CLIENT: WSP Environmental Strategies Corp
Project: NL/Atlanta
Lab ID: 0905J28-004

Client Sample ID: MW-2
Collection Date: 5/27/2009 11:02:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
METALS, TOTAL SW6010C					(SW3010A)		Analyst: JY
Cadmium	0.0333	0.0050		mg/L	113937	1	6/4/2009 9:31 AM
Copper	0.0151	0.0100		mg/L	113937	1	6/4/2009 9:31 AM
Lead	BRL	0.0100		mg/L	113937	1	6/4/2009 9:31 AM
Zinc	0.849	0.0200		mg/L	113937	1	6/4/2009 9:31 AM
VOLATILE ORGANIC COMPOUNDS BY GC/MS SW8260B					(SW5030B)		Analyst: NWH
Methyl tert-butyl ether	BRL	5.0		ug/L	113913	1	6/1/2009 2:16 PM
Benzene	BRL	5.0		ug/L	113913	1	6/1/2009 2:16 PM
Toluene	BRL	5.0		ug/L	113913	1	6/1/2009 2:16 PM
Ethylbenzene	BRL	5.0		ug/L	113913	1	6/1/2009 2:16 PM
Naphthalene	BRL	5.0		ug/L	113913	1	6/1/2009 2:16 PM
Xylenes, Total	BRL	5.0		ug/L	113913	1	6/1/2009 2:16 PM
Surr: 4-Bromofluorobenzene	103	61.3-128		%REC	113913	1	6/1/2009 2:16 PM
Surr: Dibromofluoromethane	108	67.8-130		%REC	113913	1	6/1/2009 2:16 PM
Surr: Toluene-d8	98.9	70.6-121		%REC	113913	1	6/1/2009 2:16 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
	BRL	Below Reporting Limit	S	Spike Recovery outside limits due to matrix
	H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
	N	Analyte not NELAC certified	NC	Not Confirmed
	B	Analyte detected in the associated Method Blank	<	Less than Result value
	>	Greater than Result value		

Analytical Environmental Services, Inc.

Date: 04-Jun-09

CLIENT: WSP Environmental Strategies Corp**Client Sample ID:** MW-8**Project:** NL/Atlanta**Collection Date:** 5/27/2009 11:47:00 AM**Lab ID:** 0905J28-005**Matrix:** GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
METALS, TOTAL SW6010C					(SW3010A)		Analyst: JY
Cadmium	BRL	0.0050		mg/L	113937	1	6/4/2009 9:35 AM
Copper	0.0991	0.0100		mg/L	113937	1	6/4/2009 9:35 AM
Lead	0.975	0.0100		mg/L	113937	1	6/4/2009 9:35 AM
Zinc	0.390	0.0200		mg/L	113937	1	6/4/2009 9:35 AM
VOLATILE ORGANIC COMPOUNDS BY GC/MS SW8260B					(SW5030B)		Analyst: NWH
Methyl tert-butyl ether	BRL	5.0		ug/L	113913	1	5/30/2009 6:40 PM
Benzene	BRL	5.0		ug/L	113913	1	5/30/2009 6:40 PM
Toluene	BRL	5.0		ug/L	113913	1	5/30/2009 6:40 PM
Ethylbenzene	BRL	5.0		ug/L	113913	1	5/30/2009 6:40 PM
Naphthalene	BRL	5.0		ug/L	113913	1	5/30/2009 6:40 PM
Xylenes, Total	BRL	5.0		ug/L	113913	1	5/30/2009 6:40 PM
Surr: 4-Bromofluorobenzene	102	61.3-128		%REC	113913	1	5/30/2009 6:40 PM
Surr: Dibromofluoromethane	108	67.8-130		%REC	113913	1	5/30/2009 6:40 PM
Surr: Toluene-d8	99.6	70.6-121		%REC	113913	1	5/30/2009 6:40 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- BRL Below Reporting Limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated Method Blank
- > Greater than Result value

- E Estimated (Value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See Case Narrative
- NC Not Confirmed
- < Less than Result value

Analytical Environmental Services, Inc.

Date: 04-Jun-09

CLIENT: WSP Environmental Strategies Corp**Client Sample ID:** MW-100**Project:** NL/Atlanta**Collection Date:** 5/27/2009 12:15:00 PM**Lab ID:** 0905J28-006**Matrix:** GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
METALS, TOTAL							
SW6010C					(SW3010A)		Analyst: JY
Cadmium	BRL	0.0050		mg/L	113937	1	6/4/2009 9:38 AM
Copper	0.0965	0.0100		mg/L	113937	1	6/4/2009 9:38 AM
Lead	0.972	0.0100		mg/L	113937	1	6/4/2009 9:38 AM
Zinc	0.384	0.0200		mg/L	113937	1	6/4/2009 9:38 AM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
	BRL	Below Reporting Limit	S	Spike Recovery outside limits due to matrix
	H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
	N	Analyte not NELAC certified	NC	Not Confirmed
	B	Analyte detected in the associated Method Blank	<	Less than Result value
	>	Greater than Result value		

Analytical Environmental Services, Inc.

Date: 04-Jun-09

CLIENT: WSP Environmental Strategies Corp**Client Sample ID:** MW-7E**Project:** NL/Atlanta**Collection Date:** 5/27/2009 2:00:00 PM**Lab ID:** 0905J28-007**Matrix:** GROUNDWATER

Analyses		Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
METALS, TOTAL	SW6010C					(SW3010A)		Analyst: JY
Cadmium		BRL	0.0050		mg/L	113937	1	6/4/2009 9:42 AM
Copper		BRL	0.0100		mg/L	113937	1	6/4/2009 9:42 AM
Lead		BRL	0.0100		mg/L	113937	1	6/4/2009 9:42 AM
Zinc		BRL	0.0200		mg/L	113937	1	6/4/2009 9:42 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- BRL Below Reporting Limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated Method Blank
- > Greater than Result value

- E Estimated (Value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See Case Narrative
- NC Not Confirmed
- < Less than Result value

Analytical Environmental Services, Inc.

Date: 04-Jun-09

CLIENT: WSP Environmental Strategies Corp**Client Sample ID:** MW-1**Project:** NL/Atlanta**Collection Date:** 5/27/2009 2:34:00 PM**Lab ID:** 0905J28-008**Matrix:** GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
METALS, TOTAL SW6010C					(SW3010A)		Analyst: JY
Cadmium	BRL	0.0050		mg/L	113937	1	6/4/2009 9:45 AM
Copper	BRL	0.0100		mg/L	113937	1	6/4/2009 9:45 AM
Lead	0.0226	0.0100		mg/L	113937	1	6/4/2009 9:45 AM
Zinc	BRL	0.0200		mg/L	113937	1	6/4/2009 9:45 AM
VOLATILE ORGANIC COMPOUNDS BY GC/MS SW8260B					(SW5030B)		Analyst: NWH
Methyl tert-butyl ether	BRL	5.0		ug/L	113913	1	5/30/2009 7:08 PM
Benzene	16	5.0		ug/L	113913	1	5/30/2009 7:08 PM
Toluene	BRL	5.0		ug/L	113913	1	5/30/2009 7:08 PM
Ethylbenzene	BRL	5.0		ug/L	113913	1	5/30/2009 7:08 PM
Naphthalene	BRL	5.0		ug/L	113913	1	5/30/2009 7:08 PM
Xylenes, Total	BRL	5.0		ug/L	113913	1	5/30/2009 7:08 PM
Surr: 4-Bromofluorobenzene	107	61.3-128		%REC	113913	1	5/30/2009 7:08 PM
Surr: Dibromofluoromethane	110	67.8-130		%REC	113913	1	5/30/2009 7:08 PM
Surr: Toluene-d8	100	70.6-121		%REC	113913	1	5/30/2009 7:08 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
	BRL	Below Reporting Limit	S	Spike Recovery outside limits due to matrix
	H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
	N	Analyte not NELAC certified	NC	Not Confirmed
	B	Analyte detected in the associated Method Blank	<	Less than Result value
	>	Greater than Result value		

Analytical Environmental Services, Inc.

Date: 04-Jun-09

CLIENT: WSP Environmental Strategies Corp

Client Sample ID: MW-7D

Project: NL/Atlanta

Collection Date: 5/27/2009 4:15:00 PM

Lab ID: 0905J28-009

Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
METALS, TOTAL					(SW3010A)		Analyst: JY
Cadmium	0.0300	0.0050		mg/L	113937	1	6/4/2009 9:49 AM
Copper	0.0671	0.0100		mg/L	113937	1	6/4/2009 9:49 AM
Lead	0.0325	0.0100		mg/L	113937	1	6/4/2009 9:49 AM
Zinc	0.438	0.0200		mg/L	113937	1	6/4/2009 9:49 AM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
	BRL	Below Reporting Limit	S	Spike Recovery outside limits due to matrix
	H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
	N	Analyte not NELAC certified	NC	Not Confirmed
	B	Analyte detected in the associated Method Blank	<	Less than Result value
	>	Greater than Result value		

Analytical Environmental Services, Inc.

Date: 04-Jun-09

CLIENT: WSP Environmental Strategies Corp

Client Sample ID: MW-7

Project: NL/Atlanta

Collection Date: 5/27/2009 3:15:00 PM

Lab ID: 0905J28-010

Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
METALS, TOTAL SW6010C					(SW3010A)		Analyst: JY
Cadmium	BRL	0.0050		mg/L	113937	1	6/4/2009 9:52 AM
Copper	0.0104	0.0100		mg/L	113937	1	6/4/2009 9:52 AM
Lead	BRL	0.0100		mg/L	113937	1	6/4/2009 9:52 AM
Zinc	0.0245	0.0200		mg/L	113937	1	6/4/2009 9:52 AM
VOLATILE ORGANIC COMPOUNDS BY GC/MS SW8260B					(SW5030B)		Analyst: NWH
Methyl tert-butyl ether	BRL	5.0		ug/L	113913	1	5/30/2009 7:35 PM
Benzene	BRL	5.0		ug/L	113913	1	5/30/2009 7:35 PM
Toluene	BRL	5.0		ug/L	113913	1	5/30/2009 7:35 PM
Ethylbenzene	BRL	5.0		ug/L	113913	1	5/30/2009 7:35 PM
Naphthalene	BRL	5.0		ug/L	113913	1	5/30/2009 7:35 PM
Xylenes, Total	BRL	5.0		ug/L	113913	1	5/30/2009 7:35 PM
Surr: 4-Bromofluorobenzene	102	61.3-128		%REC	113913	1	5/30/2009 7:35 PM
Surr: Dibromofluoromethane	113	67.8-130		%REC	113913	1	5/30/2009 7:35 PM
Surr: Toluene-d8	99.8	70.6-121		%REC	113913	1	5/30/2009 7:35 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
	BRL	Below Reporting Limit	S	Spike Recovery outside limits due to matrix
	H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
	N	Analyte not NELAC certified	NC	Not Confirmed
	B	Analyte detected in the associated Method Blank	<	Less than Result value
	>	Greater than Result value		

Analytical Environmental Services, Inc.

Date: 04-Jun-09

CLIENT: WSP Environmental Strategies Corp

Client Sample ID: MW-9

Project: NL/Atlanta

Collection Date: 5/27/2009 4:55:00 PM

Lab ID: 0905J28-011

Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
METALS, TOTAL SW6010C					(SW3010A)		Analyst: JY
Cadmium	BRL	0.0050		mg/L	113937	1	6/4/2009 9:56 AM
Copper	BRL	0.0100		mg/L	113937	1	6/4/2009 9:56 AM
Lead	BRL	0.0100		mg/L	113937	1	6/4/2009 9:56 AM
Zinc	0.343	0.0200		mg/L	113937	1	6/4/2009 9:56 AM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
	BRL	Below Reporting Limit	S	Spike Recovery outside limits due to matrix
	H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
	N	Analyte not NELAC certified	NC	Not Confirmed
	B	Analyte detected in the associated Method Blank	<	Less than Result value
	>	Greater than Result value		

Analytical Environmental Services, Inc.

Date: 04-Jun-09

CLIENT: WSP Environmental Strategies Corp**Client Sample ID:** MW-6**Project:** NL/Atlanta**Collection Date:** 5/28/2009 9:45:00 AM**Lab ID:** 0905J28-012**Matrix:** GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
METALS, TOTAL SW6010C					(SW3010A)		Analyst: JY
Cadmium	0.0338	0.0050		mg/L	113937	1	6/4/2009 10:06 AM
Copper	0.197	0.0100		mg/L	113937	1	6/4/2009 10:06 AM
Lead	0.0938	0.0100		mg/L	113937	1	6/4/2009 10:06 AM
Zinc	0.194	0.0200		mg/L	113937	1	6/4/2009 10:06 AM
VOLATILE ORGANIC COMPOUNDS BY GC/MS SW8260B					(SW5030B)		Analyst: NWH
Methyl tert-butyl ether	24	5.0		ug/L	113913	1	5/30/2009 8:03 PM
Benzene	12000	500		ug/L	113913	100	6/2/2009 9:43 PM
Toluene	13000	500		ug/L	113913	100	6/2/2009 9:43 PM
Ethylbenzene	2900	500		ug/L	113913	100	6/2/2009 9:43 PM
Naphthalene	880	50		ug/L	113913	10	6/2/2009 4:12 PM
Xylenes, Total	12000	500		ug/L	113913	100	6/2/2009 9:43 PM
Surr: 4-Bromofluorobenzene	107	61.3-128		%REC	113913	10	6/2/2009 4:12 PM
Surr: 4-Bromofluorobenzene	109	61.3-128		%REC	113913	100	6/2/2009 9:43 PM
Surr: 4-Bromofluorobenzene	108	61.3-128		%REC	113913	1	5/30/2009 8:03 PM
Surr: Dibromofluoromethane	112	67.8-130		%REC	113913	100	6/2/2009 9:43 PM
Surr: Dibromofluoromethane	104	67.8-130		%REC	113913	1	5/30/2009 8:03 PM
Surr: Dibromofluoromethane	108	67.8-130		%REC	113913	10	6/2/2009 4:12 PM
Surr: Toluene-d8	102	70.6-121		%REC	113913	100	6/2/2009 9:43 PM
Surr: Toluene-d8	99.1	70.6-121		%REC	113913	10	6/2/2009 4:12 PM
Surr: Toluene-d8	99.2	70.6-121		%REC	113913	1	5/30/2009 8:03 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
	BRL	Below Reporting Limit	S	Spike Recovery outside limits due to matrix
	H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
	N	Analyte not NELAC certified	NC	Not Confirmed
	B	Analyte detected in the associated Method Blank	<	Less than Result value
	>	Greater than Result value		

Analytical Environmental Services, Inc.

Date: 04-Jun-09

CLIENT: WSP Environmental Strategies Corp

Client Sample ID: TRIP BLANK

Project: NL/Atlanta

Collection Date: 5/27/2009

Lab ID: 0905J28-013

Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS SW8260B					(SW5030B)		Analyst: NWH
Methyl tert-butyl ether	BRL	5.0		ug/L	113913	1	5/30/2009 3:25 PM
Benzene	BRL	5.0		ug/L	113913	1	5/30/2009 3:25 PM
Toluene	BRL	5.0		ug/L	113913	1	5/30/2009 3:25 PM
Ethylbenzene	BRL	5.0		ug/L	113913	1	5/30/2009 3:25 PM
Naphthalene	BRL	5.0		ug/L	113913	1	5/30/2009 3:25 PM
Xylenes, Total	BRL	5.0		ug/L	113913	1	5/30/2009 3:25 PM
Surr: 4-Bromofluorobenzene	102	61.3-128		%REC	113913	1	5/30/2009 3:25 PM
Surr: Dibromofluoromethane	108	67.8-130		%REC	113913	1	5/30/2009 3:25 PM
Surr: Toluene-d8	99.8	70.6-121		%REC	113913	1	5/30/2009 3:25 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
	BRL	Below Reporting Limit	S	Spike Recovery outside limits due to matrix
	H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
	N	Analyte not NELAC certified	NC	Not Confirmed
	B	Analyte detected in the associated Method Blank	<	Less than Result value
	>	Greater than Result value		

CLIENT: WSP Environmental Strategies Corp
Work Order: 0905J28
Project: NL/Atlanta

ANALYTICAL QC SUMMARY REPORT

TestCode: METALS, TOTAL SW6010C

Sample ID: MB-113937	SampType: MBLK	Batch ID: 113937	Units: mg/L	Prep Date: 6/2/2009	RunNo: 149178						
Client ID:	TestCode: METALS, TOTAL	SW6010C		Analysis Date: 6/3/2009	SeqNo: 3066245						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Cadmium	BRL	0.00500	0	0	0	0	0	0	0	0	0
Copper	BRL	0.0100	0	0	0	0	0	0	0	0	0
Lead	BRL	0.0100	0	0	0	0	0	0	0	0	0
Zinc	BRL	0.0200	0	0	0	0	0	0	0	0	0

Sample ID: LCS-113937	SampType: LCS	Batch ID: 113937	Units: mg/L	Prep Date: 6/2/2009	RunNo: 149178						
Client ID:	TestCode: METALS, TOTAL	SW6010C		Analysis Date: 6/3/2009	SeqNo: 3066243						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Cadmium	1.014	0.00500	1	0	101	85	115	0	0	0	0
Copper	0.9846	0.0100	1	0	98.5	85	115	0	0	0	0
Lead	1.004	0.0100	1	0	100	85	115	0	0	0	0
Zinc	1.036	0.0200	1	0.006299	103	85	115	0	0	0	0

Sample ID: 0905J28-001AMS	SampType: MS	Batch ID: 113937	Units: mg/L	Prep Date: 6/2/2009	RunNo: 149178						
Client ID: MW-5	TestCode: METALS, TOTAL	SW6010C		Analysis Date: 6/3/2009	SeqNo: 3066250						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Cadmium	1.008	0.00500	1	0	101	75	125	0	0	0	0
Copper	0.9826	0.0100	1	0	98.3	75	125	0	0	0	0
Lead	0.9948	0.0100	1	0	99.5	75	125	0	0	0	0
Zinc	1.033	0.0200	1	0.002178	103	75	125	0	0	0	0

Qualifiers:	<	Less than Result value	>	Greater than Result value	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Estimated value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

CLIENT: WSP Environmental Strategies Corp
Work Order: 0905J28
Project: NL/Atlanta

ANALYTICAL QC SUMMARY REPORT

TestCode: METALS, TOTAL SW6010C

Sample ID: 0905J28-001AMSD		SampType: MSD	Batch ID: 113937		Units: mg/L		Prep Date: 6/2/2009		RunNo: 149178		
Client ID: MW-5		TestCode: METALS, TOTAL	SW6010C				Analysis Date: 6/3/2009		SeqNo: 3066252		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	1.021	0.00500	1	0	102	75	125	1.008	1.33	20	
Copper	0.9923	0.0100	1	0	99.2	75	125	0.9826	0.979	20	
Lead	1.005	0.0100	1	0	100	75	125	0.9948	0.971	20	
Zinc	1.044	0.0200	1	0.002178	104	75	125	1.033	1.10	20	

Qualifiers:	<	Less than Result value	>	Greater than Result value	B	Analyte detected in the associated Method Blank
BRL		Below Reporting Limit	E	Estimated value above quantitation range	H	Holding times for preparation or analysis exceeded
J		Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim		Reporting Limit	S	Spike Recovery outside limits due to matrix		

CLIENT: WSP Environmental Strategies Corp
 Work Order: 0905128
 Project: NL/Atlanta

ANALYTICAL QC SUMMARY REPORT

TestCode: Volatile Organic Compounds by GC/MS SW8260B

Sample ID: MB-113913	SampType: MBLK	Batch ID: 113913	Units: ug/L	Prep Date: 5/30/2009	RunNo: 148971						
Client ID:	TestCode: Volatile Organic Compounds by GC/MS SW8260B			Analysis Date: 5/30/2009	SeqNo: 3061594						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	BRL	5.0									
Ethylbenzene	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Naphthalene	BRL	5.0									
Toluene	BRL	5.0									
Xylenes, Total	BRL	5.0									
Surr: 4-Bromofluorobenzene	52.13	0	50	0	104	61.3	128	0	0	0	
Surr: Dibromofluoromethane	53.33	0	50	0	107	67.8	130	0	0	0	
Surr: Toluene-d8	48.96	0	50	0	97.9	70.6	121	0	0	0	

Sample ID: LCS-113913	SampType: LCS	Batch ID: 113913	Units: ug/L	Prep Date: 5/30/2009	RunNo: 148971						
Client ID:	TestCode: Volatile Organic Compounds by GC/MS SW8260B			Analysis Date: 5/30/2009	SeqNo: 3061595						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	48.24	5.0	50	0	96.5	77.6	130	0	0	0	
Toluene	47.8	5.0	50	0	95.6	76.8	132	0	0	0	
Surr: 4-Bromofluorobenzene	51.09	0	50	0	102	61.3	128	0	0	0	
Surr: Dibromofluoromethane	52.94	0	50	0	106	67.8	130	0	0	0	
Surr: Toluene-d8	48.9	0	50	0	97.8	70.6	121	0	0	0	

Sample ID: 0905123-003AMS	SampType: MS	Batch ID: 113913	Units: ug/L	Prep Date: 5/30/2009	RunNo: 148971						
Client ID:	TestCode: Volatile Organic Compounds by GC/MS SW8260B			Analysis Date: 5/30/2009	SeqNo: 3061597						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	47.8	5.0	50	0	95.6	74.4	134	0	0	0	
Toluene	48.41	5.0	50	0	96.8	73.7	138	0	0	0	
Surr: 4-Bromofluorobenzene	51.26	0	50	0	103	61.3	128	0	0	0	
Surr: Dibromofluoromethane	52.72	0	50	0	105	67.8	130	0	0	0	

Qualifiers:	<	Less than Result value	>	Greater than Result value	B	Analyte detected in the associated Method Blank
BRL		Below Reporting Limit	E	Estimated value above quantitation range	H	Holding times for preparation or analysis exceeded
J		Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim		Reporting Limit	S	Spike Recovery outside limits due to matrix		

CLIENT: WSP Environmental Strategies Corp
 Work Order: 0905J28
 Project: NL/Atlanta

ANALYTICAL QC SUMMARY REPORT

TestCode: Volatile Organic Compounds by GC/MS SW8260B

Sample ID: 0905J23-003AMS	SampType: MS	Batch ID: 113913	Units: ug/L	Prep Date: 5/30/2009	RunNo: 148971						
Client ID:	TestCode: Volatile Organic Compounds by GC/MS SW8260B				SeqNo: 3061597						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID: 0905J23-003AMSD	SampType: MSD	Batch ID: 113913	Units: ug/L	Prep Date: 5/30/2009	RunNo: 148971						
Client ID:	TestCode: Volatile Organic Compounds by GC/MS SW8260B			Analysis Date: 5/30/2009	SeqNo: 3061600						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	47.22	5.0	50	0	94.4	74.4	134	47.8	1.22	20	
Toluene	48.32	5.0	50	0	96.6	73.7	138	48.41	0.186	20	
Surr: 4-Bromofluorobenzene	53.85	0	50	0	108	61.3	128	51.26	0	0	
Surr: Dibromofluoromethane	53.07	0	50	0	106	67.8	130	52.72	0	0	
Surr: Toluene-d8	49.36	0	50	0	98.7	70.6	121	49.79	0	0	

Qualifiers:	<	Less than Result value	>	Greater than Result value	B	Analyte detected in the associated Method Blank
BRL		Below Reporting Limit	E	Estimated value above quantitation range	H	Holding times for preparation or analysis exceeded
J		Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim		Reporting Limit	S	Spike Recovery outside limits due to matrix		



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

July 17, 2009

Gigi Beaulieu
WSP Environmental Strategies Corp
11190 Sunrise Valley Drive, Suite 300
Reston, VA 20191

TEL: (978) 635-9600

FAX: (978) 264-0537

RE: NL - Atlanta

Order No.: 0907482

Dear Gigi Beaulieu:

Analytical Environmental Services, Inc. received 5 samples on 7/8/2009 1:00:00 PM for the analyses presented in the following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/08-06/30/09.

-AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 08/01/09.

These results relate only to the items tested. This report may only be reproduced in full and contains 13 total pages (including cover letter).

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Mirzeta Karanic

James Forrest

Jor

Project Manager

COMPANY:		ADDRESS:		ANALYSIS REQUESTED				REMARKS		No # of Containers	
WSP Environmental, Inc.		1740 Massachusetts Ave Boxborough, MA 01719		Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.							
PHONE: (978) 855-5100		FAX: (978) 264-0537									
SAMPLED BY: Heather Ukle		SIGNATURE: Heather Ukle									
#	SAMPLE ID	SAMPLED		DATE	TIME	Grab	Composite	Matrix (See codes)			
1	MW-14			7/7/09	14:50	X		GW	X		3
2	MW-15			7/8/09	9:55	X		GW	X		3
3	MW-13				11:20	X		GW	X		3
4	MW-130				12:00	X		GW	X		3
5	TR080801					X		ML	X		3
6	END										3
7											
8											
9											
10											
11											
12											
13											
14											
RELINQUISHED BY: Heather Ukle		DATE/TIME: 7/8/09 13:00		RECEIVED BY: Mahe 7/8/09				DATE/TIME: 1:00			
SPECIAL INSTRUCTIONS/COMMENTS:		PROJECT NAME: NL Atlanta									
		PROJECT # 127502/09									
		SITE ADDRESS: 430 Bishop St NW Atlanta, GA									
		SEND REPORT TO: giga.beautiful@aesatlanta.com									
		INVOICE TO: (IF DIFFERENT FROM ABOVE)									
		SHIPMENT METHOD OUT / / VIA: <u>SELF</u> IN / / VIA: <u>CLIENT</u> FedEx UPS MAIL COURIER GREYHOUND OTHER									
		STATE PROGRAM (if any): E-mail? <u>Y</u> N; Fax? <u>Y</u> N DATA PACKAGE: I II III IV									
		Turnaround Time Request Standard 5 Business Days 2 Business Day Rush Next Business Day Rush Same Day Rush (auth req.) Other									
		Total # of Containers: 14									
		RECEIPT									

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES. A = Air
GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
PRE-SERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client WSP Env Energy

Work Order Number 0907482

Checklist completed by [Signature] Date 7/8/9

Carrier name: FedEx ☐ UPS ☐ Courier ☐ Client ☒ US Mail ☐ Other ☐

Shipping container/cooler in good condition? Yes ☒ No ☐ Not Present ☐

Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒

Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒

Container/Temp Blank temperature in compliance? ($4^{\circ}\text{C} \pm 2$)* Yes ☒ No ☐

Cooler #1 3.2°C Cooler #2 ☐ Cooler #3 ☐ Cooler #4 ☐ Cooler #5 ☐ Cooler #6 ☐

Chain of custody present? Yes ☒ No ☐

Chain of custody signed when relinquished and received? Yes ☒ No ☐

Chain of custody agrees with sample labels? Yes ☒ No ☐

Samples in proper container/bottle? Yes ☒ No ☐

Sample containers intact? Yes ☒ No ☐

Sufficient sample volume for indicated test? Yes ☒ No ☐

All samples received within holding time? Yes ☒ No ☐

Was TAT marked on the COC? Yes ☒ No ☐

Proceed with Standard TAT as per project history? Yes ☐ No ☐ Not Applicable ☒

Water - VOA vials have zero headspace? No VOA vials submitted ☐ Yes ☒ No ☐

Water - pH acceptable upon receipt? Yes ☒ No ☐ Not Applicable ☐

Adjusted? ☐ Checked by I.P.
Sample Condition: Good ☒ Other(Explain) ☐

(For diffusive samples or AIHA lead) Is a known blank included? Yes ☐ No ☒

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

\\Quality Assurance\\Checklists Procedures Sign-Off Templates\\Checklists\\Sample Receipt Checklists\\Sample_Cooler_Receipt_Checklist

Analytical Environmental Services, Inc.**Date:** 17-Jul-09**CLIENT:** WSP Environmental Strategies Corp**Project:** NL - Atlanta**Lab Order:** 0907482**CASE NARRATIVE**

Analyze VOCs for BTEX MTBE and Naphthalene per Gigi Beaulieu on 7/8/09.

Analytical Environmental Services, Inc.

Date: 17-Jul-09

CLIENT: WSP Environmental Strategies Corp

Client Sample ID: MW-14

Project: NL - Atlanta

Collection Date: 7/7/2009 2:50:00 PM

Lab ID: 0907482-001

Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
METALS, TOTAL SW6010C					(SW3010A)		Analyst: TAA
Cadmium	BRL	0.0050		mg/L	115381	1	7/9/2009 3:11 PM
Copper	BRL	0.0100		mg/L	115381	1	7/9/2009 3:11 PM
Lead	BRL	0.0100		mg/L	115381	1	7/9/2009 3:11 PM
Zinc	0.0506	0.0200		mg/L	115381	1	7/9/2009 3:11 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS SW8260B					(SW5030B)		Analyst: JCT
Methyl tert-butyl ether	BRL	5.0		ug/L	115538	1	7/13/2009 8:29 PM
Benzene	BRL	5.0		ug/L	115538	1	7/13/2009 8:29 PM
Toluene	BRL	5.0		ug/L	115538	1	7/13/2009 8:29 PM
Ethylbenzene	BRL	5.0		ug/L	115538	1	7/13/2009 8:29 PM
Naphthalene	BRL	5.0		ug/L	115538	1	7/13/2009 8:29 PM
Xylenes, Total	BRL	5.0		ug/L	115538	1	7/13/2009 8:29 PM
Surr: 4-Bromofluorobenzene	85.2	61.3-128		%REC	115538	1	7/13/2009 8:29 PM
Surr: Dibromofluoromethane	115	67.8-130		%REC	115538	1	7/13/2009 8:29 PM
Surr: Toluene-d8	95.7	70.6-121		%REC	115538	1	7/13/2009 8:29 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- BRL Below Reporting Limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated Method Blank
- > Greater than Result value

- E Estimated (Value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See Case Narrative
- NC Not Confirmed
- < Less than Result value

Analytical Environmental Services, Inc.

Date: 17-Jul-09

CLIENT: WSP Environmental Strategies Corp
Project: NL - Atlanta
Lab ID: 0907482-002

Client Sample ID: MW-15
Collection Date: 7/8/2009 9:55:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
METALS, TOTAL SW6010C					(SW3010A)		Analyst: TAA
Cadmium	BRL	0.0050		mg/L	115381	1	7/9/2009 3:51 PM
Copper	BRL	0.0100		mg/L	115381	1	7/9/2009 3:51 PM
Lead	BRL	0.0100		mg/L	115381	1	7/9/2009 3:51 PM
Zinc	BRL	0.0200		mg/L	115381	1	7/9/2009 3:51 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS SW8260B					(SW5030B)		Analyst: JCT
Methyl tert-butyl ether	BRL	5.0		ug/L	115538	1	7/13/2009 8:58 PM
Benzene	BRL	5.0		ug/L	115538	1	7/13/2009 8:58 PM
Toluene	BRL	5.0		ug/L	115538	1	7/13/2009 8:58 PM
Ethylbenzene	BRL	5.0		ug/L	115538	1	7/13/2009 8:58 PM
Naphthalene	BRL	5.0		ug/L	115538	1	7/13/2009 8:58 PM
Xylenes, Total	BRL	5.0		ug/L	115538	1	7/13/2009 8:58 PM
Surr: 4-Bromofluorobenzene	83.5	61.3-128		%REC	115538	1	7/13/2009 8:58 PM
Surr: Dibromofluoromethane	116	67.8-130		%REC	115538	1	7/13/2009 8:58 PM
Surr: Toluene-d8	94.6	70.6-121		%REC	115538	1	7/13/2009 8:58 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- BRL Below Reporting Limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated Method Blank
- > Greater than Result value

- E Estimated (Value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See Case Narrative
- NC Not Confirmed
- < Less than Result value

Analytical Environmental Services, Inc.

Date: 17-Jul-09

CLIENT: WSP Environmental Strategies Corp
Project: NL - Atlanta
Lab ID: 0907482-003

Client Sample ID: MW-13
Collection Date: 7/8/2009 11:20:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
METALS, TOTAL SW6010C					(SW3010A)		Analyst: TAA
Cadmium	BRL	0.0050		mg/L	115381	1	7/9/2009 3:55 PM
Copper	BRL	0.0100		mg/L	115381	1	7/9/2009 3:55 PM
Lead	BRL	0.0100		mg/L	115381	1	7/9/2009 3:55 PM
Zinc	BRL	0.0200		mg/L	115381	1	7/9/2009 3:55 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS SW8260B					(SW5030B)		Analyst: JCT
Methyl tert-butyl ether	BRL	5.0		ug/L	115538	1	7/13/2009 9:28 PM
Benzene	BRL	5.0		ug/L	115538	1	7/13/2009 9:28 PM
Toluene	BRL	5.0		ug/L	115538	1	7/13/2009 9:28 PM
Ethylbenzene	BRL	5.0		ug/L	115538	1	7/13/2009 9:28 PM
Naphthalene	BRL	5.0		ug/L	115538	1	7/13/2009 9:28 PM
Xylenes, Total	BRL	5.0		ug/L	115538	1	7/13/2009 9:28 PM
Surr: 4-Bromofluorobenzene	80.1	61.3-128		%REC	115538	1	7/13/2009 9:28 PM
Surr: Dibromofluoromethane	114	67.8-130		%REC	115538	1	7/13/2009 9:28 PM
Surr: Toluene-d8	96.3	70.6-121		%REC	115538	1	7/13/2009 9:28 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
	BRL	Below Reporting Limit	S	Spike Recovery outside limits due to matrix
	H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
	N	Analyte not NELAC certified	NC	Not Confirmed
	B	Analyte detected in the associated Method Blank	<	Less than Result value
	>	Greater than Result value		

Analytical Environmental Services, Inc.

Date: 17-Jul-09

CLIENT: WSP Environmental Strategies Corp
Project: NL - Atlanta
Lab ID: 0907482-004

Client Sample ID: MW-130
Collection Date: 7/8/2009 12:00:00 PM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
METALS, TOTAL SW6010C					(SW3010A)		Analyst: TAA
Cadmium	BRL	0.0050		mg/L	115381	1	7/9/2009 3:59 PM
Copper	BRL	0.0100		mg/L	115381	1	7/9/2009 3:59 PM
Lead	BRL	0.0100		mg/L	115381	1	7/9/2009 3:59 PM
Zinc	BRL	0.0200		mg/L	115381	1	7/9/2009 3:59 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS SW8260B					(SW5030B)		Analyst: JCT
Methyl tert-butyl ether	BRL	5.0		ug/L	115538	1	7/13/2009 9:58 PM
Benzene	BRL	5.0		ug/L	115538	1	7/13/2009 9:58 PM
Toluene	BRL	5.0		ug/L	115538	1	7/13/2009 9:58 PM
Ethylbenzene	BRL	5.0		ug/L	115538	1	7/13/2009 9:58 PM
Naphthalene	BRL	5.0		ug/L	115538	1	7/13/2009 9:58 PM
Xylenes, Total	BRL	5.0		ug/L	115538	1	7/13/2009 9:58 PM
Surr: 4-Bromofluorobenzene	81.7	61.3-128		%REC	115538	1	7/13/2009 9:58 PM
Surr: Dibromofluoromethane	119	67.8-130		%REC	115538	1	7/13/2009 9:58 PM
Surr: Toluene-d8	98.0	70.6-121		%REC	115538	1	7/13/2009 9:58 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
	BRL	Below Reporting Limit	S	Spike Recovery outside limits due to matrix
	H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
	N	Analyte not NELAC certified	NC	Not Confirmed
	B	Analyte detected in the associated Method Blank	<	Less than Result value
	>	Greater than Result value		

Analytical Environmental Services, Inc.

Date: 17-Jul-09

CLIENT: WSP Environmental Strategies Corp
Project: NL - Atlanta
Lab ID: 0907482-005

Client Sample ID: TB070809
Collection Date: 7/8/2009
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS SW8260B				(SW5030B)		Analyst: JCT	
Methyl tert-butyl ether	BRL	5.0		ug/L	115538	1	7/14/2009 1:51 PM
Benzene	BRL	5.0		ug/L	115538	1	7/14/2009 1:51 PM
Toluene	BRL	5.0		ug/L	115538	1	7/14/2009 1:51 PM
Ethylbenzene	BRL	5.0		ug/L	115538	1	7/14/2009 1:51 PM
Naphthalene	BRL	5.0		ug/L	115538	1	7/14/2009 1:51 PM
Xylenes, Total	BRL	5.0		ug/L	115538	1	7/14/2009 1:51 PM
Surr: 4-Bromofluorobenzene	87.4	61.3-128		%REC	115538	1	7/14/2009 1:51 PM
Surr: Dibromofluoromethane	105	67.8-130		%REC	115538	1	7/14/2009 1:51 PM
Surr: Toluene-d8	92.5	70.6-121		%REC	115538	1	7/14/2009 1:51 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
	BRL	Below Reporting Limit	S	Spike Recovery outside limits due to matrix
	H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
	N	Analyte not NELAC certified	NC	Not Confirmed
	B	Analyte detected in the associated Method Blank	<	Less than Result value
	>	Greater than Result value		

Analytical Environmental Services, Inc.

Date: 17-Jul-09

CLIENT: WSP Environmental Strategies Corp

Work Order: 0907482

Project: NL - Atlanta

ANALYTICAL QC SUMMARY REPORT

TestCode: METALS, TOTAL SW6010C

Sample ID: MB-115381	SampleType: MBLK	Batch ID: 115381	Units: mg/L	Prep Date: 7/9/2009	RunNo: 151529						
Client ID:	TestCode: METALS, TOTAL	SW6010C		Analysis Date: 7/9/2009	SeqNo: 3119801						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Cadmium	BRL	0.00500	0	0	0	0	0	0	0	0	0
Copper	BRL	0.0100	0	0	0	0	0	0	0	0	0
Lead	BRL	0.0100	0	0	0	0	0	0	0	0	0
Zinc	BRL	0.0200	0	0	0	0	0	0	0	0	0

Sample ID: LCS-115381	SampleType: LCS	Batch ID: 115381	Units: mg/L	Prep Date: 7/9/2009	RunNo: 151529						
Client ID:	TestCode: METALS, TOTAL	SW6010C		Analysis Date: 7/9/2009	SeqNo: 3119799						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Cadmium	1.024	0.00500	1	0	102	85	115	0	0	0	0
Copper	1.036	0.0100	1	0	104	85	115	0	0	0	0
Lead	1.044	0.0100	1	0	104	85	115	0	0	0	0
Zinc	1.02	0.0200	1	0.00477	102	85	115	0	0	0	0

Sample ID: 0907482-001BMS	SampleType: MS	Batch ID: 115381	Units: mg/L	Prep Date: 7/9/2009	RunNo: 151529						
Client ID: MW-14	TestCode: METALS, TOTAL	SW6010C		Analysis Date: 7/9/2009	SeqNo: 3119803						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Cadmium	1.003	0.00500	1	0.002917	100	75	125	0	0	0	0
Copper	1.023	0.0100	1	0.002255	102	75	125	0	0	0	0
Lead	1.001	0.0100	1	0	100	75	125	0	0	0	0
Zinc	1.033	0.0200	1	0.05064	98.2	75	125	0	0	0	0

Qualifiers:

< Less than Result value

BRL Below Reporting Limit

J Estimated value detected below Reporting Limit

Rpt Lim Reporting Limit

> Greater than Result value

E Estimated value above quantitation range

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

R RPD outside limits due to matrix

CLIENT: WSP Environmental Strategies Corp
Work Order: 0907482
Project: NL - Atlanta

ANALYTICAL QC SUMMARY REPORT

TestCode: METALS, TOTAL SW6010C

Sample ID: 0907482-001BMSD		Sample Type: MSD	Batch ID: 115381		Units: mg/L		Prep Date: 7/9/2009		RunNo: 151529		
Client ID: MW-14		TestCode: METALS, TOTAL	SW6010C				Analysis Date: 7/9/2009		SeqNo: 3119805		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	1.008	0.00500	1	0.002917	101	75	125	1.003	0.579	20	
Copper	1.029	0.0100	1	0.002255	103	75	125	1.023	0.576	20	
Lead	1.007	0.0100	1	0	101	75	125	1.001	0.594	20	
Zinc	1.046	0.0200	1	0.05064	99.5	75	125	1.033	1.24	20	

Qualifiers:	<	Less than Result value	>	Greater than Result value	B	Analyte detected in the associated Method Blank
BRL		Below Reporting Limit	E	Estimated value above quantitation range	H	Holding times for preparation or analysis exceeded
J		Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim		Reporting Limit	S	Spike Recovery outside limits due to matrix		

CLIENT: WSP Environmental Strategies Corp
Work Order: 0907482
Project: NL - Atlanta

ANALYTICAL QC SUMMARY REPORT

TestCode: Volatile Organic Compounds by GC/MS SW8260B

Sample ID: MB-115538	SampType: MBLK	Batch ID: 115538	Units: ug/L	Prep Date: 7/11/2009	RunNo: 151753
Client ID:	TestCode: Volatile Organic Compounds by GC/MS SW8260B			Analysis Date: 7/11/2009	SeqNo: 3128941
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Benzene	BRL	5.0	0	0	0	0	0	0	0
Ethylbenzene	BRL	5.0	0	0	0	0	0	0	0
Methyl tert-butyl ether	BRL	5.0	0	0	0	0	0	0	0
Naphthalene	BRL	5.0	0	0	0	0	0	0	0
Toluene	BRL	5.0	0	0	0	0	0	0	0
Xylenes, Total	BRL	5.0	0	0	0	0	0	0	0
Surr: 4-Bromofluorobenzene	42.66	0	50	0	85.3	61.3	128	0	0
Surr: Dibromofluoromethane	53.65	0	50	0	107	67.8	130	0	0
Surr: Toluene-d8	46.67	0	50	0	93.3	70.6	121	0	0

Sample ID: LCS-115538	SampType: LCS	Batch ID: 115538	Units: ug/L	Prep Date: 7/11/2009	RunNo: 151753
Client ID:	TestCode: Volatile Organic Compounds by GC/MS SW8260B			Analysis Date: 7/11/2009	SeqNo: 3124586
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Benzene	49.14	5.0	50	0	98.3	77.6	130	0	0
Toluene	48.41	5.0	50	0	96.8	76.8	132	0	0
Surr: 4-Bromofluorobenzene	50.25	0	50	0	101	61.3	128	0	0
Surr: Dibromofluoromethane	52	0	50	0	104	67.8	130	0	0
Surr: Toluene-d8	53.62	0	50	0	107	70.6	121	0	0

Sample ID: 0907472-002AMS	SampType: MS	Batch ID: 115538	Units: ug/L	Prep Date: 7/11/2009	RunNo: 151850
Client ID:	TestCode: Volatile Organic Compounds by GC/MS SW8260B			Analysis Date: 7/14/2009	SeqNo: 3130122
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Benzene	57.66	5.0	50	0	115	74.4	134	0	0
Toluene	58.65	5.0	50	0	117	73.7	138	0	0
Surr: 4-Bromofluorobenzene	52.41	0	50	0	105	61.3	128	0	0
Surr: Dibromofluoromethane	52.8	0	50	0	106	67.8	130	0	0

Qualifiers:	<	Less than Result value	>	Greater than Result value	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Estimated value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

CLIENT: WSP Environmental Strategies Corp
Work Order: 0907482
Project: NL - Atlanta

ANALYTICAL QC SUMMARY REPORT

TestCode: Volatile Organic Compounds by GC/MS SW8260B

Sample ID: 0907472-002AMS	SampType: MS	Batch ID: 115538	Units: ug/L	Prep Date: 7/11/2009	RunNo: 151850						
Client ID:	TestCode: Volatile Organic Compounds by GC/MS SW8260B			Analysis Date: 7/14/2009	SeqNo: 3130122						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Toluene-d8	52.34	0	50	0	105	70.6	121	0	0	0	

Sample ID: 0907472-002AMSD	SampType: MSD	Batch ID: 115538	Units: ug/L	Prep Date: 7/11/2009	RunNo: 151850						
Client ID:	TestCode: Volatile Organic Compounds by GC/MS SW8260B	Analysis Date: 7/14/2009				SeqNo: 3130123					
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	59.42	5.0	50	0	119	74.4	134	57.66	3.01	20	
Toluene	58.92	5.0	50	0	118	73.7	138	58.65	0.459	20	
Surr: 4-Bromofluorobenzene	51.53	0	50	0	103	61.3	128	52.41	0	0	
Surr: Dibromofluoromethane	49.96	0	50	0	99.9	67.8	130	52.8	0	0	
Surr: Toluene-d8	53.05	0	50	0	106	70.6	121	52.34	0	0	

Qualifiers:	<	Less than Result value	>	Greater than Result value	B	Analyte detected in the associated Method Blank
BRL		Below Reporting Limit	E	Estimated value above quantitation range	H	Holding times for preparation or analysis exceeded
J		Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim		Reporting Limit	S	Spike Recovery outside limits due to matrix		



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

August 17, 2009

Gigi Beaulieu
WSP Environmental Strategies Corp
11190 Sunrise Valley Drive, Suite 300
Reston, VA 20191

TEL: (978) 635-9600

FAX: (978) 264-0537

RE: NL-Atlanta

Order No.: 0908781

Dear Gigi Beaulieu:

Analytical Environmental Services, Inc. received 3 samples on 8/12/2009 1:35:00 PM for the analyses presented in the following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/09-06/30/10.
- AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/09.

These results relate only to the items tested. This report may only be reproduced in full and contains 8 total pages (including cover letter).

If you have any questions regarding these test results, please feel free to call.

Sincerely,


James Forrest

Project Manager





ANALYTICAL ENVIRONMENTAL SERVICES, INC

3785 Presidential Parkway, Atlanta GA 30340-3704

TEL: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 0908781

Date: 8/12/09 Page 1 of 1

COMPANY: WSP Environmental & Energy		ADDRESS: 1740 Massachusetts Ave Exton, PA 19341		ANALYSIS REQUESTED		Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		No # of Containers	
PHONE: (978) 635-9600	FAX: (978) 264-0537	SIGNATURE: Heather Ukle		PRESERVATION (See codes)		REMARKS			
SAMPLED BY: Heather Ukle	SAMPLED		DATE	TIME	Grab	Composite	Matrix		
#	SAMPLE ID						(See codes)		
1	MW-13D		8/12/09	11:40	X		GM	1	
2	MW-13DD		8/12/09	12:30	X		GM	1	
3	MW-13DD		8/12/09	12:00	X		GM	1	
4	END								
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
RELINQUISHED BY: Heather Ukle	DATE/TIME: 8/12/09 11:40	RECEIVED BY: [Signature]	DATE/TIME: 8/12/09 1:35	PROJECT INFORMATION					RECEIPT
PROJECT NAME: NL-Atlanta		PROJECT # 12756219A		Total # of Containers					3
SITE ADDRESS: 430 Bishop St NW Atlanta, GA		SEND REPORT TO: aq1.bishop@wspgroup.com		Turnaround Time Request					
INVOICE TO: Heather. Ukle@wspgroup.com		(IF DIFFERENT FROM ABOVE)		Standard 5 Business Days					
				2 Business Day Rush					
				Next Business Day Rush					
				Same Day Rush (auth req)					
				Other					
SPECIAL INSTRUCTIONS/COMMENTS: Metals: cadmium, copper, lead & zinc		SHIPMENT METHOD		STATE PROGRAM (if any)					
		OUT / IN		E-mail? Y / N					
		CLIENT / GREYHOUND		Fax? Y / N					
		VIA / UPS MAIL		DATA PACKAGE I II III IV					
		OTHER / SELF		QUOTE #					

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.

SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water

PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client WSP ENV

Work Order Number 0908781

Checklist completed by K. Curfman 8/12/09
Signature Date

Carrier name: FedEx ☐ UPS ☐ Courier ☐ Client ☒ US Mail ☐ Other ☐

Shipping container/cooler in good condition? Yes ☒ No ☐ Not Present ☐

Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒

Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒

Container/Temp Blank temperature in compliance? ($4^{\circ}\text{C} \pm 2$) * Yes ☒ No ☐

Cooler #1 3-00 Cooler #2 ☐ Cooler #3 ☐ Cooler #4 ☐ Cooler #5 ☐ Cooler #6 ☐

Chain of custody present? Yes ☒ No ☐

Chain of custody signed when relinquished and received? Yes ☒ No ☐

Chain of custody agrees with sample labels? Yes ☒ No ☐

Samples in proper container/bottle? Yes ☒ No ☐

Sample containers intact? Yes ☒ No ☐

Sufficient sample volume for indicated test? Yes ☒ No ☐

All samples received within holding time? Yes ☒ No ☐

Was TAT marked on the COC? Yes ☒ No ☐

Proceed with Standard TAT as per project history? Yes ☐ No ☐ Not Applicable ☒

Water - VOA vials have zero headspace? No VOA vials submitted ☒ Yes ☐ No ☐

Water - pH acceptable upon receipt? Yes ☒ No ☐ Not Applicable ☐

Adjusted? ☐ Checked by K. Curfman

Sample Condition: Good ☒ Other(Explain) ☐

(For diffusive samples or AIHA lead) Is a known blank included? Yes ☐ No ☒

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

\\Quality Assurance\Checklists Procedures Sign-Off Templates\Checklists\Sample Receipt Checklists\Sample_Cooler_Receipt_Checklist

Analytical Environmental Services, Inc.

Date: 17-Aug-09

CLIENT: WSP Environmental Strategies Corp

Client Sample ID: MW- 13D

Project: NL-Atlanta

Collection Date: 8/12/2009 11:40:00 AM

Lab ID: 0908781-001

Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
METALS, TOTAL SW6010C					(SW3010A)		Analyst: MAW
Cadmium	BRL	0.0050		mg/L	117087	1	8/14/2009 2:59 PM
Copper	BRL	0.0100		mg/L	117087	1	8/14/2009 2:59 PM
Lead	BRL	0.0100		mg/L	117087	1	8/14/2009 2:59 PM
Zinc	BRL	0.0200		mg/L	117087	1	8/14/2009 2:59 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
N Analyte not NELAC certified
B Analyte detected in the associated Method Blank
> Greater than Result value

E Estimated (Value above quantitation range)
S Spike Recovery outside limits due to matrix
Narr See Case Narrative
NC Not Confirmed
< Less than Result value

Analytical Environmental Services, Inc.

Date: 17-Aug-09

CLIENT: WSP Environmental Strategies Corp

Client Sample ID: MW-13DD

Project: NL-Atlanta

Collection Date: 8/12/2009 12:30:00 PM

Lab ID: 0908781-002

Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
METALS, TOTAL SW6010C					(SW3010A)		Analyst: MAW
Cadmium	BRL	0.0050		mg/L	117087	1	8/14/2009 3:02 PM
Copper	BRL	0.0100		mg/L	117087	1	8/14/2009 3:02 PM
Lead	BRL	0.0100		mg/L	117087	1	8/14/2009 3:02 PM
Zinc	BRL	0.0200		mg/L	117087	1	8/14/2009 3:02 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
N Analyte not NELAC certified
B Analyte detected in the associated Method Blank
> Greater than Result value

E Estimated (Value above quantitation range)
S Spike Recovery outside limits due to matrix
Narr See Case Narrative
NC Not Confirmed
< Less than Result value

Analytical Environmental Services, Inc.

Date: 17-Aug-09

CLIENT: WSP Environmental Strategies Corp

Client Sample ID: MW-13ODD

Project: NL-Atlanta

Collection Date: 8/12/2009 1:00:00 PM

Lab ID: 0908781-003

Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
METALS, TOTAL					(SW3010A)		Analyst: MAW
Cadmium	BRL	0.0050		mg/L	117087	1	8/14/2009 3:06 PM
Copper	BRL	0.0100		mg/L	117087	1	8/14/2009 3:06 PM
Lead	BRL	0.0100		mg/L	117087	1	8/14/2009 3:06 PM
Zinc	BRL	0.0200		mg/L	117087	1	8/14/2009 3:06 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
N Analyte not NELAC certified
B Analyte detected in the associated Method Blank
> Greater than Result value

E Estimated (Value above quantitation range)
S Spike Recovery outside limits due to matrix
Narr See Case Narrative
NC Not Confirmed
< Less than Result value

Analytical Environmental Services, Inc.

Date: 17-Aug-09

CLIENT: WSP Environmental Strategies Corp
Work Order: 0908781
Project: NL-Atlanta

ANALYTICAL QC SUMMARY REPORT

TestCode: METALS, TOTAL SW6010C

Sample ID: MB-117087	SampType: MBLK	Batch ID: 117087	Units: mg/L	Prep Date: 8/14/2009	RunNo: 153819						
Client ID:	TestCode: METALS, TOTAL	SW6010C		Analysis Date: 8/14/2009	SeqNo: 3169058						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Cadmium	BRL	0.00500	0	0	0	0	0	0	0	0	
Copper	BRL	0.0100	0	0	0	0	0	0	0	0	
Lead	BRL	0.0100	0	0	0	0	0	0	0	0	
Zinc	BRL	0.0200	0	0	0	0	0	0	0	0	

Sample ID: LCS-117087	SampType: LCS	Batch ID: 117087	Units: mg/L	Prep Date: 8/14/2009	RunNo: 153819						
Client ID:	TestCode: METALS, TOTAL	SW6010C		Analysis Date: 8/14/2009	SeqNo: 3169042						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Cadmium	1.079	0.00500	1	0	108	85	115	0	0	0	
Copper	1.067	0.0100	1	0	107	85	115	0	0	0	
Lead	1.071	0.0100	1	0	107	85	115	0	0	0	
Zinc	1.081	0.0200	1	0	108	85	115	0	0	0	

Sample ID: 0908682-003AMS		SampType: MS	Batch ID: 117087	Units: mg/L	Prep Date: 8/14/2009	RunNo: 153819					
Client ID:	TestCode: METALS, TOTAL	SW6010C			Analysis Date: 8/14/2009	SeqNo: 3169063					
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Cadmium	1.059	0.00500	1	0	106	75	125	0	0	0	
Copper	1.037	0.0100	1	0	104	75	125	0	0	0	
Lead	1.056	0.0100	1	0	106	75	125	0	0	0	
Zinc	1.079	0.0200	1	0.005025	107	75	125	0	0	0	

Qualifiers:	<	Less than Result value	>	Greater than Result value	B	Analyte detected in the associated Method Blank
BRL		Below Reporting Limit	E	Estimated value above quantitation range	H	Holding times for preparation or analysis exceeded
J		Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim		Reporting Limit	S	Spike Recovery outside limits due to matrix		

CLIENT: WSP Environmental Strategies Corp
 Work Order: 0908781
 Project: NL-Atlanta

ANALYTICAL QC SUMMARY REPORT

TestCode: METALS, TOTAL SW6010C

Sample ID: 0908682-003AMSD		SampType: MSD		Batch ID: 117087		Units: mg/L		Prep Date: 8/14/2009		RunNo: 153819	
Client ID:		TestCode: METALS, TOTAL		SW6010C				Analysis Date: 8/14/2009		SeqNo: 3169071	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	1.078	0.00500	1	0	108	75	125	1.059	1.77	20	
Copper	1.054	0.0100	1	0	105	75	125	1.037	1.55	20	
Lead	1.064	0.0100	1	0	106	75	125	1.056	0.763	20	
Zinc	1.088	0.0200	1	0.005025	108	75	125	1.079	0.821	20	

Qualifiers:	<	Less than Result value	>	Greater than Result value	B	Analyte detected in the associated Method Blank
BRL		Below Reporting Limit	E	Estimated value above quantitation range	H	Holding times for preparation or analysis exceeded
J		Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim		Reporting Limit	S	Spike Recovery outside limits due to matrix		



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

May 23, 2018

Gigi Beaulieu
WSP Environmental Strategies Corp
1740 Massachusetts Ave
Boxborough MA 01719

RE: NL Atlanta

Dear Gigi Beaulieu:

Order No: 1805E59

Analytical Environmental Services, Inc. received 16 samples on 5/14/2018 6:10:00 PM
for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/17-06/30/18.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.

-NELAP/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/19.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Jessica Shilling
Project Manager

CHAIN OF CUSTODY

Work Order: 1805E69

Date: 08-14-18 Page 1 of 2

COMPANY: WSP						ADDRESS: 75 Arlington Street 4th Floor Boston, MA 02116							ANALYSIS REQUESTED									Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.				Number of Containers
PHONE: 617-960-4845						EMAIL: GIGI.BEAULIEU@WSP.COM																				
SAMPLED BY: AMB						SIGNATURE: A. Beaulieu																				
#	SAMPLE ID	SAMPLED:		GRAB	COMPOSITE	MATRIX (see codes)	TCL VOCs	Total Metals	PRESERVATION (see codes)												REMARKS					
		DATE	TIME				H+1	N																		
1	MW-800	05-11-18	12:00	X		GW	X																			
2	MW-2	05-11-18	15:50	X		GW	X																			
3	MW-TE	05-11-18	17:15	X		GW	X																			
4	MW-TD	05-11-18	18:00	X		GW	X	X																		
5	MW-7	05-11-18	19:15	X		GW	X	X																		
6	MW-8	05-11-18	14:25	X		GW	X																			
7	MW-1	05-12-18	12:35	X		GW	X	X																		
8	MW-12	05-12-18	14:55	X		GW	X																			
9	MW-6	05-14-18	11:05	X		GW	X	X																		
10	MW-9	05-14-18	12:10	X		GW	X																			
11	MW-13D	05-14-18	15:30	X		GW	X	X																		
12	MW-13	05-14-18	15:25	X		GW	X	X																		
13	MW-14	05-14-18	16:30	X		GW	X																			
14	MW-15	05-14-18	14:15	X		GW	X																			
RELINQUISHED BY:		DATE/TIME:		RECEIVED BY:		DATE/TIME:		PROJECT INFORMATION												RECEIPT						
1. A. Beaulieu				1. [Signature]		05-14-18 06:15		PROJECT NAME:												Total # of Containers						
2.				2. [Signature]		5/14/18		PROJECT #:												Turnaround Time (TAT) Request <input type="checkbox"/> Standard 5 Business Days <input type="checkbox"/> 2 Business Day Rush <input type="checkbox"/> Next Business Day Rush <input type="checkbox"/> Same-Day Rush (auth req.) <input type="checkbox"/> Other _____						
3.				3.				SITE ADDRESS:																		
								SEND REPORT TO:												STATE PROGRAM (if any): _____ E-mail? <input type="checkbox"/> Fax? <input type="checkbox"/> DATA PACKAGE: I <input type="radio"/> II <input type="radio"/> III <input type="radio"/> IV <input type="radio"/>						
SPECIAL INSTRUCTIONS/COMMENTS:				SHIPMENT METHOD				INVOICE TO: (IF DIFFERENT FROM ABOVE)																		
				OUT: / / VIA:				QUOTE #: _____ PO#: _____																		
				IN: / / VIA:																						
				client FedEx UPS US mail courier Greyhound																						
				other: _____																						

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT.
Samples are disposed of 30 days after completion of report unless other arrangements are made.

Matrix Codes: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water WW = Waste Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)

Preservative Codes: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client
Page 2 of 25

CHAIN OF CUSTODY

Work Order: 1805ESA

Date: 03-14-18 Page 2 of 2

[illegible]

Matrix Codes: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water WW = Waste Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)

Preservative Codes: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client
Page 3 of 25

Client: WSP Environmental Strategies Corp
Project: NL Atlanta
Lab ID: 1805E59

Case Narrative

Sample Receiving Nonconformance:

For sample 1805E59-0010, vials were received for VOC testing but not listed on the Chain of Custody. Per Gigi Beaulieu via email on 5/16/2018 at 10:37 am, analyze sample MW-9 for volatiles analysis.

Volatiles Organic Compounds Analysis by Method 8260B:

Due to sample matrix, samples 1805E59-009A, & -016A required dilution during preparation and/or analysis resulting in elevated reporting limits.

Analytical Environmental Services, Inc
Date: 23-May-18

Client:	WSP Environmental Strategies Corp	Client Sample ID:	MW-800
Project Name:	NL Atlanta	Collection Date:	5/11/2018 12:00:00 PM
Lab ID:	1805E59-001	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL								
SW6010D								
					(SW3010A)			
Cadmium	BRL	0.0050		mg/L	260911	1	05/18/2018 23:32	DG
Copper	BRL	0.0100		mg/L	260911	1	05/18/2018 23:32	DG
Lead	0.0476	0.0100		mg/L	260911	1	05/18/2018 23:32	DG
Zinc	BRL	0.0200		mg/L	260911	1	05/18/2018 23:32	DG

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc**Date:** 23-May-18

Client: WSP Environmental Strategies Corp
Project Name: NL Atlanta
Lab ID: 1805E59-002

Client Sample ID: MW-2
Collection Date: 5/11/2018 3:50:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL								
SW6010D								
					(SW3010A)			
Cadmium	0.0234	0.0050		mg/L	260911	1	05/18/2018 14:21	DG
Copper	0.0108	0.0100		mg/L	260911	1	05/18/2018 14:21	DG
Lead	BRL	0.0100		mg/L	260911	1	05/18/2018 14:21	DG
Zinc	0.692	0.0200		mg/L	260911	1	05/18/2018 14:21	DG

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc**Date:** 23-May-18

Client: WSP Environmental Strategies Corp
Project Name: NL Atlanta
Lab ID: 1805E59-003

Client Sample ID: MW-7E
Collection Date: 5/11/2018 5:15:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL								
SW6010D								
					(SW3010A)			
Cadmium	BRL	0.0050		mg/L	260911	1	05/18/2018 23:38	DG
Copper	BRL	0.0100		mg/L	260911	1	05/18/2018 23:38	DG
Lead	BRL	0.0100		mg/L	260911	1	05/18/2018 23:38	DG
Zinc	BRL	0.0200		mg/L	260911	1	05/18/2018 23:38	DG

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 23-May-18

Client: WSP Environmental Strategies Corp
Project Name: NL Atlanta
Lab ID: 1805E59-004

Client Sample ID: MW-7D
Collection Date: 5/11/2018 6:00:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
Benzene	BRL	5.0		ug/L	260841	1	05/17/2018 19:27	CC
Ethylbenzene	BRL	5.0		ug/L	260841	1	05/17/2018 19:27	CC
Naphthalene	BRL	5.0		ug/L	260841	1	05/17/2018 19:27	CC
Methyl tert-butyl ether	BRL	5.0		ug/L	260841	1	05/17/2018 19:27	CC
m,p-Xylene	BRL	5.0		ug/L	260841	1	05/17/2018 19:27	CC
o-Xylene	BRL	5.0		ug/L	260841	1	05/17/2018 19:27	CC
Toluene	BRL	5.0		ug/L	260841	1	05/17/2018 19:27	CC
Surr: 4-Bromofluorobenzene	97.2	68-127		%REC	260841	1	05/17/2018 19:27	CC
Surr: Dibromofluoromethane	100	84.4-122		%REC	260841	1	05/17/2018 19:27	CC
Surr: Toluene-d8	80.3	80.1-116		%REC	260841	1	05/17/2018 19:27	CC
METALS, TOTAL SW6010D				(SW3010A)				
Cadmium	0.0197	0.0050		mg/L	260911	1	05/18/2018 22:15	DG
Copper	0.0415	0.0100		mg/L	260911	1	05/18/2018 22:15	DG
Lead	BRL	0.0100		mg/L	260911	1	05/18/2018 22:15	DG
Zinc	0.242	0.0200		mg/L	260911	1	05/23/2018 13:05	TA

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 23-May-18

Client: WSP Environmental Strategies Corp
Project Name: NL Atlanta
Lab ID: 1805E59-005

Client Sample ID: MW-7
Collection Date: 5/11/2018 7:15:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
Benzene	BRL	5.0		ug/L	260841	1	05/17/2018 19:54	CC
Ethylbenzene	BRL	5.0		ug/L	260841	1	05/17/2018 19:54	CC
Naphthalene	BRL	5.0		ug/L	260841	1	05/17/2018 19:54	CC
Methyl tert-butyl ether	BRL	5.0		ug/L	260841	1	05/17/2018 19:54	CC
m,p-Xylene	BRL	5.0		ug/L	260841	1	05/17/2018 19:54	CC
o-Xylene	BRL	5.0		ug/L	260841	1	05/17/2018 19:54	CC
Toluene	BRL	5.0		ug/L	260841	1	05/17/2018 19:54	CC
Surr: 4-Bromofluorobenzene	99.9	68-127		%REC	260841	1	05/17/2018 19:54	CC
Surr: Dibromofluoromethane	97.1	84.4-122		%REC	260841	1	05/17/2018 19:54	CC
Surr: Toluene-d8	91.1	80.1-116		%REC	260841	1	05/17/2018 19:54	CC
METALS, TOTAL SW6010D				(SW3010A)				
Cadmium	BRL	0.0050		mg/L	260911	1	05/18/2018 22:56	DG
Copper	BRL	0.0100		mg/L	260911	1	05/18/2018 22:56	DG
Lead	0.0510	0.0100		mg/L	260911	1	05/18/2018 22:56	DG
Zinc	BRL	0.0200		mg/L	260911	1	05/18/2018 22:56	DG

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc**Date:** 23-May-18

Client: WSP Environmental Strategies Corp	Client Sample ID: MW-8
Project Name: NL Atlanta	Collection Date: 5/11/2018 2:25:00 PM
Lab ID: 1805E59-006	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL								
SW6010D								
					(SW3010A)			
Cadmium	BRL	0.0050		mg/L	260911	1	05/18/2018 22:58	DG
Copper	BRL	0.0100		mg/L	260911	1	05/18/2018 22:58	DG
Lead	0.0469	0.0100		mg/L	260911	1	05/18/2018 22:58	DG
Zinc	BRL	0.0200		mg/L	260911	1	05/18/2018 22:58	DG

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 23-May-18

Client: WSP Environmental Strategies Corp
 Project Name: NL Atlanta
 Lab ID: 1805E59-007

Client Sample ID: MW-1
 Collection Date: 5/12/2018 12:35:00 PM
 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
Benzene	BRL	5.0		ug/L	260841	1	05/17/2018 21:42	CC
Ethylbenzene	BRL	5.0		ug/L	260841	1	05/17/2018 21:42	CC
Naphthalene	BRL	5.0		ug/L	260841	1	05/17/2018 21:42	CC
Methyl tert-butyl ether	BRL	5.0		ug/L	260841	1	05/17/2018 21:42	CC
m,p-Xylene	10	5.0		ug/L	260841	1	05/17/2018 21:42	CC
o-Xylene	BRL	5.0		ug/L	260841	1	05/17/2018 21:42	CC
Toluene	BRL	5.0		ug/L	260841	1	05/17/2018 21:42	CC
Surr: 4-Bromofluorobenzene	97.2	68-127		%REC	260841	1	05/17/2018 21:42	CC
Surr: Dibromofluoromethane	104	84.4-122		%REC	260841	1	05/17/2018 21:42	CC
Surr: Toluene-d8	92.7	80.1-116		%REC	260841	1	05/17/2018 21:42	CC
METALS, TOTAL SW6010D				(SW3010A)				
Cadmium	BRL	0.0050		mg/L	260911	1	05/18/2018 23:26	DG
Copper	BRL	0.0100		mg/L	260911	1	05/18/2018 23:26	DG
Lead	0.101	0.0100		mg/L	260911	1	05/18/2018 23:26	DG
Zinc	0.0312	0.0200		mg/L	260911	1	05/22/2018 21:31	TA

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc**Date:** 23-May-18

Client: WSP Environmental Strategies Corp
Project Name: NL Atlanta
Lab ID: 1805E59-008

Client Sample ID: MW-12
Collection Date: 5/12/2018 2:55:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL								
SW6010D								
					(SW3010A)			
Cadmium	BRL	0.0050		mg/L	260911	1	05/18/2018 22:13	DG
Copper	BRL	0.0100		mg/L	260911	1	05/18/2018 22:13	DG
Lead	BRL	0.0100		mg/L	260911	1	05/18/2018 22:13	DG
Zinc	BRL	0.0200		mg/L	260911	1	05/18/2018 22:13	DG

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 23-May-18

Client: WSP Environmental Strategies Corp
 Project Name: NL Atlanta
 Lab ID: 1805E59-009

Client Sample ID: MW-6
 Collection Date: 5/14/2018 11:05:00 AM
 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
Benzene	BRL	250		ug/L	260841	50	05/17/2018 18:33	CC
Ethylbenzene	1900	250		ug/L	260841	50	05/17/2018 18:33	CC
Naphthalene	460	250		ug/L	260841	50	05/17/2018 18:33	CC
Methyl tert-butyl ether	BRL	250		ug/L	260841	50	05/17/2018 18:33	CC
m,p-Xylene	4700	250		ug/L	260841	50	05/17/2018 18:33	CC
o-Xylene	1500	250		ug/L	260841	50	05/17/2018 18:33	CC
Toluene	4300	250		ug/L	260841	50	05/17/2018 18:33	CC
Surr: 4-Bromofluorobenzene	94.1	68-127		%REC	260841	50	05/17/2018 18:33	CC
Surr: Dibromofluoromethane	92.1	84.4-122		%REC	260841	50	05/17/2018 18:33	CC
Surr: Toluene-d8	89.5	80.1-116		%REC	260841	50	05/17/2018 18:33	CC
METALS, TOTAL SW6010D				(SW3010A)				
Cadmium	BRL	0.0050		mg/L	260911	1	05/18/2018 22:54	DG
Copper	BRL	0.0100		mg/L	260911	1	05/18/2018 22:54	DG
Lead	BRL	0.0100		mg/L	260911	1	05/18/2018 22:54	DG
Zinc	BRL	0.0200		mg/L	260911	1	05/18/2018 22:54	DG

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 23-May-18

Client: WSP Environmental Strategies Corp
 Project Name: NL Atlanta
 Lab ID: 1805E59-010

Client Sample ID: MW-9
 Collection Date: 5/14/2018 12:10:00 PM
 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
Benzene	BRL	5.0		ug/L	260841	1	05/17/2018 20:21	CC
Ethylbenzene	10	5.0		ug/L	260841	1	05/17/2018 20:21	CC
Naphthalene	5.6	5.0		ug/L	260841	1	05/17/2018 20:21	CC
Methyl tert-butyl ether	BRL	5.0		ug/L	260841	1	05/17/2018 20:21	CC
m,p-Xylene	32	5.0		ug/L	260841	1	05/17/2018 20:21	CC
o-Xylene	8.8	5.0		ug/L	260841	1	05/17/2018 20:21	CC
Toluene	8.8	5.0		ug/L	260841	1	05/17/2018 20:21	CC
Surr: 4-Bromofluorobenzene	101	68-127		%REC	260841	1	05/17/2018 20:21	CC
Surr: Dibromofluoromethane	102	84.4-122		%REC	260841	1	05/17/2018 20:21	CC
Surr: Toluene-d8	88.7	80.1-116		%REC	260841	1	05/17/2018 20:21	CC
METALS, TOTAL SW6010D				(SW3010A)				
Cadmium	BRL	0.0050		mg/L	260911	1	05/18/2018 23:00	DG
Copper	0.0127	0.0100		mg/L	260911	1	05/18/2018 23:00	DG
Lead	BRL	0.0100		mg/L	260911	1	05/18/2018 23:00	DG
Zinc	0.659	0.0200		mg/L	260911	1	05/22/2018 21:35	TA

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 23-May-18

Client: WSP Environmental Strategies Corp
 Project Name: NL Atlanta
 Lab ID: 1805E59-011

Client Sample ID: MW-13D
 Collection Date: 5/14/2018 3:30:00 PM
 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
Benzene	BRL	5.0		ug/L	260841	1	05/17/2018 20:48	CC
Ethylbenzene	BRL	5.0		ug/L	260841	1	05/17/2018 20:48	CC
Naphthalene	BRL	5.0		ug/L	260841	1	05/17/2018 20:48	CC
Methyl tert-butyl ether	BRL	5.0		ug/L	260841	1	05/17/2018 20:48	CC
m,p-Xylene	BRL	5.0		ug/L	260841	1	05/17/2018 20:48	CC
o-Xylene	BRL	5.0		ug/L	260841	1	05/17/2018 20:48	CC
Toluene	BRL	5.0		ug/L	260841	1	05/17/2018 20:48	CC
Surr: 4-Bromofluorobenzene	90	68-127		%REC	260841	1	05/17/2018 20:48	CC
Surr: Dibromofluoromethane	98.1	84.4-122		%REC	260841	1	05/17/2018 20:48	CC
Surr: Toluene-d8	90.3	80.1-116		%REC	260841	1	05/17/2018 20:48	CC
METALS, TOTAL SW6010D				(SW3010A)				
Cadmium	BRL	0.0050		mg/L	260911	1	05/18/2018 23:06	DG
Copper	BRL	0.0100		mg/L	260911	1	05/18/2018 23:06	DG
Lead	BRL	0.0100		mg/L	260911	1	05/18/2018 23:06	DG
Zinc	BRL	0.0200		mg/L	260911	1	05/18/2018 23:06	DG

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 23-May-18

Client: WSP Environmental Strategies Corp
Project Name: NL Atlanta
Lab ID: 1805E59-012

Client Sample ID: MW-13
Collection Date: 5/14/2018 3:25:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
Benzene	BRL	5.0		ug/L	260841	1	05/17/2018 21:15	CC
Ethylbenzene	BRL	5.0		ug/L	260841	1	05/17/2018 21:15	CC
Naphthalene	BRL	5.0		ug/L	260841	1	05/17/2018 21:15	CC
Methyl tert-butyl ether	BRL	5.0		ug/L	260841	1	05/17/2018 21:15	CC
m,p-Xylene	BRL	5.0		ug/L	260841	1	05/17/2018 21:15	CC
o-Xylene	BRL	5.0		ug/L	260841	1	05/17/2018 21:15	CC
Toluene	BRL	5.0		ug/L	260841	1	05/17/2018 21:15	CC
Surr: 4-Bromofluorobenzene	96	68-127		%REC	260841	1	05/17/2018 21:15	CC
Surr: Dibromofluoromethane	98	84.4-122		%REC	260841	1	05/17/2018 21:15	CC
Surr: Toluene-d8	89.6	80.1-116		%REC	260841	1	05/17/2018 21:15	CC
METALS, TOTAL SW6010D				(SW3010A)				
Cadmium	BRL	0.0050		mg/L	260911	1	05/18/2018 23:08	DG
Copper	BRL	0.0100		mg/L	260911	1	05/18/2018 23:08	DG
Lead	BRL	0.0100		mg/L	260911	1	05/18/2018 23:08	DG
Zinc	BRL	0.0200		mg/L	260911	1	05/18/2018 23:08	DG

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc**Date:** 23-May-18

Client: WSP Environmental Strategies Corp
Project Name: NL Atlanta
Lab ID: 1805E59-013

Client Sample ID: MW-14
Collection Date: 5/14/2018 4:30:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL								
SW6010D					(SW3010A)			
Cadmium	0.0059	0.0050		mg/L	260911	1	05/18/2018 23:22	DG
Copper	BRL	0.0100		mg/L	260911	1	05/18/2018 23:22	DG
Lead	BRL	0.0100		mg/L	260911	1	05/18/2018 23:22	DG
Zinc	0.0975	0.0200		mg/L	260911	1	05/22/2018 21:39	TA

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc**Date:** 23-May-18

Client: WSP Environmental Strategies Corp
Project Name: NL Atlanta
Lab ID: 1805E59-014

Client Sample ID: MW-15
Collection Date: 5/14/2018 2:15:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL								
SW6010D								
					(SW3010A)			
Cadmium	BRL	0.0050		mg/L	260911	1	05/18/2018 23:24	DG
Copper	BRL	0.0100		mg/L	260911	1	05/18/2018 23:24	DG
Lead	BRL	0.0100		mg/L	260911	1	05/18/2018 23:24	DG
Zinc	BRL	0.0200		mg/L	260911	1	05/18/2018 23:24	DG

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 23-May-18

Client: WSP Environmental Strategies Corp
 Project Name: NL Atlanta
 Lab ID: 1805E59-015

Client Sample ID: TB-051418
 Collection Date: 5/14/2018
 Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
Benzene	BRL	5.0		ug/L	260841	1	05/17/2018 17:11	CC
Ethylbenzene	BRL	5.0		ug/L	260841	1	05/17/2018 17:11	CC
Naphthalene	BRL	5.0		ug/L	260841	1	05/17/2018 17:11	CC
Methyl tert-butyl ether	BRL	5.0		ug/L	260841	1	05/17/2018 17:11	CC
m,p-Xylene	BRL	5.0		ug/L	260841	1	05/17/2018 17:11	CC
o-Xylene	BRL	5.0		ug/L	260841	1	05/17/2018 17:11	CC
Toluene	BRL	5.0		ug/L	260841	1	05/17/2018 17:11	CC
Surr: 4-Bromofluorobenzene	90	68-127		%REC	260841	1	05/17/2018 17:11	CC
Surr: Dibromofluoromethane	107	84.4-122		%REC	260841	1	05/17/2018 17:11	CC
Surr: Toluene-d8	92.6	80.1-116		%REC	260841	1	05/17/2018 17:11	CC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 23-May-18

Client: WSP Environmental Strategies Corp
Project Name: NL Atlanta
Lab ID: 1805E59-016

Client Sample ID: MW-600
Collection Date: 5/14/2018 12:00:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
Benzene	BRL	250		ug/L	260841	50	05/17/2018 19:00	CC
Ethylbenzene	1900	250		ug/L	260841	50	05/17/2018 19:00	CC
Naphthalene	650	250		ug/L	260841	50	05/17/2018 19:00	CC
Methyl tert-butyl ether	BRL	250		ug/L	260841	50	05/17/2018 19:00	CC
m,p-Xylene	4700	250		ug/L	260841	50	05/17/2018 19:00	CC
o-Xylene	1400	250		ug/L	260841	50	05/17/2018 19:00	CC
Toluene	4200	250		ug/L	260841	50	05/17/2018 19:00	CC
Surr: 4-Bromofluorobenzene	92.4	68-127		%REC	260841	50	05/17/2018 19:00	CC
Surr: Dibromofluoromethane	98.1	84.4-122		%REC	260841	50	05/17/2018 19:00	CC
Surr: Toluene-d8	88.6	80.1-116		%REC	260841	50	05/17/2018 19:00	CC

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

Clear

Save as

1. Client Name: **WSP Environment & Energy**

AES Work Order Number: **1805E59**

2. Carrier: FedEx ☐ UPS ☐ USPS ☐ Client ☒ Courier ☐ Other ☐

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
5. Custody seals intact on shipping container?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
6. Temperature blanks present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
9. Chain of Custody signed, dated, and timed when relinquished and received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
10. Sampler name and/or signature on COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
11. Were all samples received within holding time?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
12. TAT marked on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature 3.7 °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C

14. Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials).

AJJ 5/14/18

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
17. Custody seals present on sample containers?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
18. Custody seals intact on sample containers?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
19. Do sample container labels match the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
21. Were all of the samples listed on the COC received?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	samples received but not listed on COC <input checked="" type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
23. Did we receive sufficient sample volume for indicated analyses?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
24. Were samples received in appropriate containers?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
25. Were VOA samples received without headspace (< 1/4" bubble)?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
26. Were trip blanks submitted?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	listed on COC <input checked="" type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials).

ES 5/15/18

This section only applies to samples where pH can be checked at Sample Receipt.

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
29. Containers meet preservation guidelines?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
30. Was pH adjusted at Sample Receipt?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.

I certify that I have completed sections 28-30 (dated initials).

ES 5/15/18

Client: WSP Environmental Strategies Corp
Project Name: NL Atlanta
Workorder: 1805E59

ANALYTICAL QC SUMMARY REPORT**BatchID: 260841**

Sample ID: MB-260841	Client ID:	Units: ug/L				Prep Date: 05/17/2018	Run No: 370509				
SampleType: MBLK	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 260841				Analysis Date: 05/17/2018	Seq No: 8215801				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	BRL	5.0									
Ethylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Naphthalene	BRL	5.0									
o-Xylene	BRL	5.0									
Toluene	BRL	5.0									
Surr: 4-Bromofluorobenzene	48.82	0	50.00		97.6	68	127				
Surr: Dibromofluoromethane	51.82	0	50.00		104	84.4	122				
Surr: Toluene-d8	51.54	0	50.00		103	80.1	116				

Sample ID: LCS-260841	Client ID:					Units: ug/L	Prep Date: 05/17/2018	Run No: 370509			
SampleType: LCS	TestCode: Volatile Organic Compounds by GC/MS SW8260B					BatchID: 260841	Analysis Date: 05/17/2018	Seq No: 8215800			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	45.51	5.0	50.00		91.0	73.7	126				
Toluene	46.59	5.0	50.00		93.2	76.8	125				
Surr: 4-Bromofluorobenzene	48.44	0	50.00		96.9	68	127				
Surr: Dibromofluoromethane	50.09	0	50.00		100	84.4	122				
Surr: Toluene-d8	50.86	0	50.00		102	80.1	116				

Sample ID: 1805E61-001AMS	Client ID:					Units: ug/L	Prep Date: 05/17/2018	Run No: 370509			
SampleType: MS	TestCode: Volatile Organic Compounds by GC/MS SW8260B					BatchID: 260841	Analysis Date: 05/17/2018	Seq No: 8215803			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	48.12	5.0	50.00		96.2	66.1	137				
Toluene	50.91	5.0	50.00		102	63.8	141				
Surr: 4-Bromofluorobenzene	47.07	0	50.00		94.1	68	127				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: WSP Environmental Strategies Corp
Project Name: NL Atlanta
Workorder: 1805E59

ANALYTICAL QC SUMMARY REPORT

BatchID: 260841

Sample ID: 1805E61-001AMS	Client ID:	Units: ug/L				Prep Date: 05/17/2018	Run No: 370509				
SampleType: MS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 260841				Analysis Date: 05/17/2018	Seq No: 8215803				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Surr: Dibromofluoromethane	52.70	0	50.00	105	84.4	122
Surr: Toluene-d8	50.70	0	50.00	101	80.1	116

Sample ID: 1805E61-001AMSD	Client ID:				Units: ug/L	Prep Date: 05/17/2018	Run No: 370509				
SampleType: MSD	TestCode: Volatile Organic Compounds by GC/MS SW8260B				BatchID: 260841	Analysis Date: 05/17/2018	Seq No: 8215804				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	47.95	5.0	50.00	95.9	66.1	137	48.12	0.354	20
Toluene	50.66	5.0	50.00	101	63.8	141	50.91	0.492	20
Surr: 4-Bromofluorobenzene	47.35	0	50.00	94.7	68	127	47.07	0	0
Surr: Dibromofluoromethane	53.31	0	50.00	107	84.4	122	52.70	0	0
Surr: Toluene-d8	52.50	0	50.00	105	80.1	116	50.70	0	0

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: WSP Environmental Strategies Corp
 Project Name: NL Atlanta
 Workorder: 1805E59

ANALYTICAL QC SUMMARY REPORT

BatchID: 260911

Sample ID: MB-260911	Client ID:					Units: mg/L	Prep Date: 05/17/2018	Run No: 370720			
SampleType: MBLK	TestCode: METALS, TOTAL	SW6010D				BatchID: 260911	Analysis Date: 05/18/2018	Seq No: 8220430			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Cadmium BRL 0.0050
 Copper BRL 0.0100
 Lead BRL 0.0100
 Zinc BRL 0.0200

Sample ID: LCS-260911	Client ID:					Units: mg/L	Prep Date: 05/17/2018	Run No: 370720			
SampleType: LCS	TestCode: METALS, TOTAL	SW6010D				BatchID: 260911	Analysis Date: 05/18/2018	Seq No: 8220172			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Cadmium 1.084 0.0050 1.000 108 80 120
 Copper 1.090 0.0100 1.000 109 80 120
 Lead 1.102 0.0100 1.000 110 80 120
 Zinc 1.078 0.0200 1.000 108 80 120

Sample ID: 1805E59-002AMS	Client ID: MW-2					Units: mg/L	Prep Date: 05/17/2018	Run No: 370720			
SampleType: MS	TestCode: METALS, TOTAL	SW6010D	BatchID: 260911				Analysis Date: 05/18/2018	Seq No: 8220181			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Cadmium 1.060 0.0050 1.000 0.02345 104 75 125
 Copper 1.045 0.0100 1.000 0.01082 103 75 125
 Lead 1.018 0.0100 1.000 102 75 125
 Zinc 1.706 0.0200 1.000 0.6916 101 75 125

Sample ID: 1805E59-002AMSD	Client ID: MW-2	Units: mg/L				Prep Date: 05/17/2018	Run No: 370720				
SampleType: MSD	TestCode: METALS, TOTAL SW6010D	BatchID: 260911				Analysis Date: 05/18/2018	Seq No: 8220183				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Cadmium 1.022 0.0050 1.000 0.02345 99.9 75 125 1.060 3.62 20

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: WSP Environmental Strategies Corp
Project Name: NL Atlanta
Workorder: 1805E59

ANALYTICAL QC SUMMARY REPORT

BatchID: 260911

Sample ID: 1805E59-002AMSD					Client ID: MW-2		Units: mg/L		Prep Date: 05/17/2018		Run No: 370720	
SampleType: MSD					TestCode: METALS, TOTAL SW6010D		BatchID: 260911		Analysis Date: 05/18/2018		Seq No: 8220183	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual	
Copper	1.004	0.0100	1.000	0.01082	99.3	75	125	1.045	4.04	20		
Lead	0.9795	0.0100	1.000		98.0	75	125	1.018	3.86	20		
Zinc	1.650	0.0200	1.000	0.6916	95.9	75	125	1.706	3.33	20		

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		