Voluntary Investigation and Remediation Plan Application Form and Checklist

VRP APPLICANT INFORMATION						
COMPANY NAME	NL Industries, Inc.	NL Industries, Inc.				
CONTACT PERSON/TITLE	Kevin Lombardozzi, Direc	tor Environm	ental Management			
ADDRESS	Three Lincoln Center, 543	0 LBJ Freew	vay, Suite 1700, Dallas	s, TX 75240-26	697	
PHONE	E 972-448-1480 FAX E-MAIL klombardozzi@valhi.net					
GEORGIA CER	RTIFIED PROFESSION	IAL GEOL	OGIST OR PROF	ESSIONAL	ENGINEER	R OVERSEEING CLEANUP
NAME	Giselle M. Beaulieu			GA PE/PG N	IUMBER	PG 1847
COMPANY	WSP USA Inc.					
ADDRESS	ADDRESS 1740 Massachusetts Avenue, Boxborough, MA 01719					
PHONE	PHONE 617-210-1667 FAX E-MAIL gigi.beaulieu@wsp.com					
ADDITIONAL CERTIFICATION						

APPLICANT'S CERTIFICATION

In order to be considered a qualifying property for the VRP:

- (1) The property must have a release of regulated substances into the environment;
- (2) The property shall not be:
 - (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.
 - (B) Currently undergoing response activities required by an order of the regional administrator of the federal Environmental Protection Agency; or
 - (C) A facility required to have a permit under Code Section 12-8-66.
- (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.
- (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.

In order to be considered a participant under the VRP:

- (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.
- (2) The participant must not be in violation of any order, judgment, statute, rule, or regulation subject to the enforcement authority of the director.

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.

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.

APPLICANT'S SIGNATURE	Lunfunlahi			
APPLICANT'S NAME/TITLE (PRINT)	Kevin Lombardozzi, Director Environmental Management	DATE	05/24/2018	

QUALIFYING P	ROPERTY INFORMATION (For additional qu	ualifying properties, please refer to the ITORY INFORMATION (if applicable)	last page of application	n form)
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
Trott is demand to the control of th		RTY INFORMATION		
TAX PARCEL ID	17-0148-LL0081	PROPERTY SIZE (ACRES)	2.02	
PROPERTY ADDRESS	400 Bishop St NW	1 ,	<u></u>	
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 F		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 INCLUDIN BOUNDARIES, ABUTTING PROPERTIES, 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	

N.			
	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.		
	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:		
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	*
9	SIGNED AND SEALED PE/PG CERTIFICATION AND SUPPORTING DOCUMENTATION:		
S.E.M. RG	"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, et seq.). 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.		***
* The second sec	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.		
No. 1847	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."		÷
PROFESSORIUSE A	Giselle M Beaulieu, PG 1847 Printed Name and GA PE/PG Number Giselle M Beaulieu Date		
	Gille M Beaulieu Signature and Stamp		

PAGE 3

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 OW	NER 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 OV	NER 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



TABLE OF CONTENTS

1	INTRODUCTION	1
2	TAX PLAT AND WARRANTY DEEDS	2
3	CONCEPTUAL SITE MODEL	3
3.1	Chemicals of Concern	3
3.2	Hydrogeology	3
3.3	Contaminant Sources	3
3.4	Contaminant Distribution in Groundwater	4
3.5	Contaminant Fate and Transport	4
3.6	Potential Human and Ecological Receptors	4
3.7	Potential Exposure Pathways	5
3.7.1	Direct Contact and Ingestion – Human and Ecological	5
3.7.2	Vapor Intrusion – Human Health	5
4	REMEDIATION PLAN	6
5	PROJECTED MILESTONE SCHEDULE	7



FIGURES	
FIGURE 1	SITE LOCATION
FIGURE 2	SITE LAYOUT
FIGURE 3	GROUNDWATER ELEVATION MAP
FIGURE 4	BENZENE CONCENTRATIONS IN GROUNDWATER
FIGURE 5	ETHYLBENZENE CONCENTRATIONS IN GROUNDWATER
FIGURE 6	TOLUENE CONCENTRATIONS IN GROUNDWATER
FIGURE 7	XYLENE CONCENTRATIONS IN GROUNDWATER
FIGURE 8	NAPHTHALENE CONCENTRATIONS IN GROUNDWATER
FIGURE 9	CADMIUM CONCENTRATIONS IN GROUNDWATER
FIGURE 10	LEAD CONCENTRATIONS IN GROUNDWATER

TABLES

TABLE 1	CHEMICALS OF CONCERN AND RRS FOR SOIL
TABLE 2	CHEMICALS OF CONCERN AND RRS FOR GROUNDWATER
TABLE 3	GROUNDWATER ELEVATION DATA
TABLE 4	SUMMARY OF GROUNDWATER ANALYSES
	2003 TO 2018

APPENDICES

APPENDIX A	TAX PLAT
APPENDIX B	WARRANTY DEEDS
APPENDIX C	BORING LOGS AND WELL CONSTRUCTION DETAILS
APPENDIX D	GEOLOGIC CROSS SECTIONS
APPENDIX E	LABORATORY ANALYTICAL REPORTS

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.

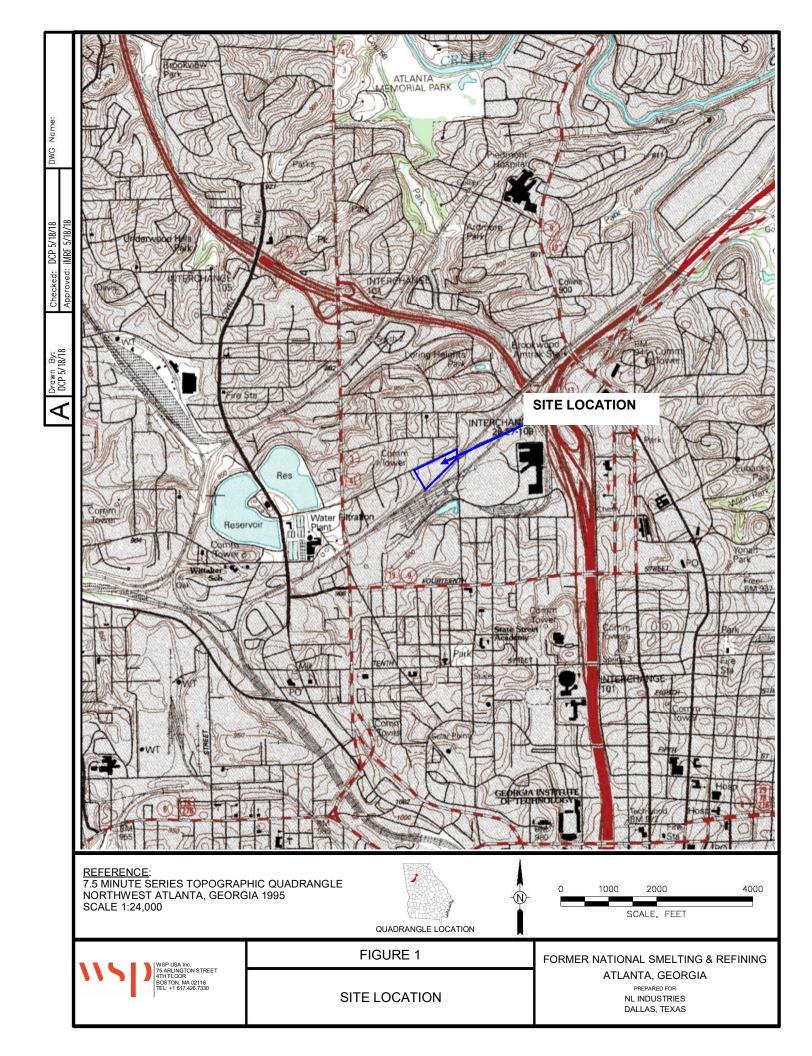
4 REMEDIATION PLAN

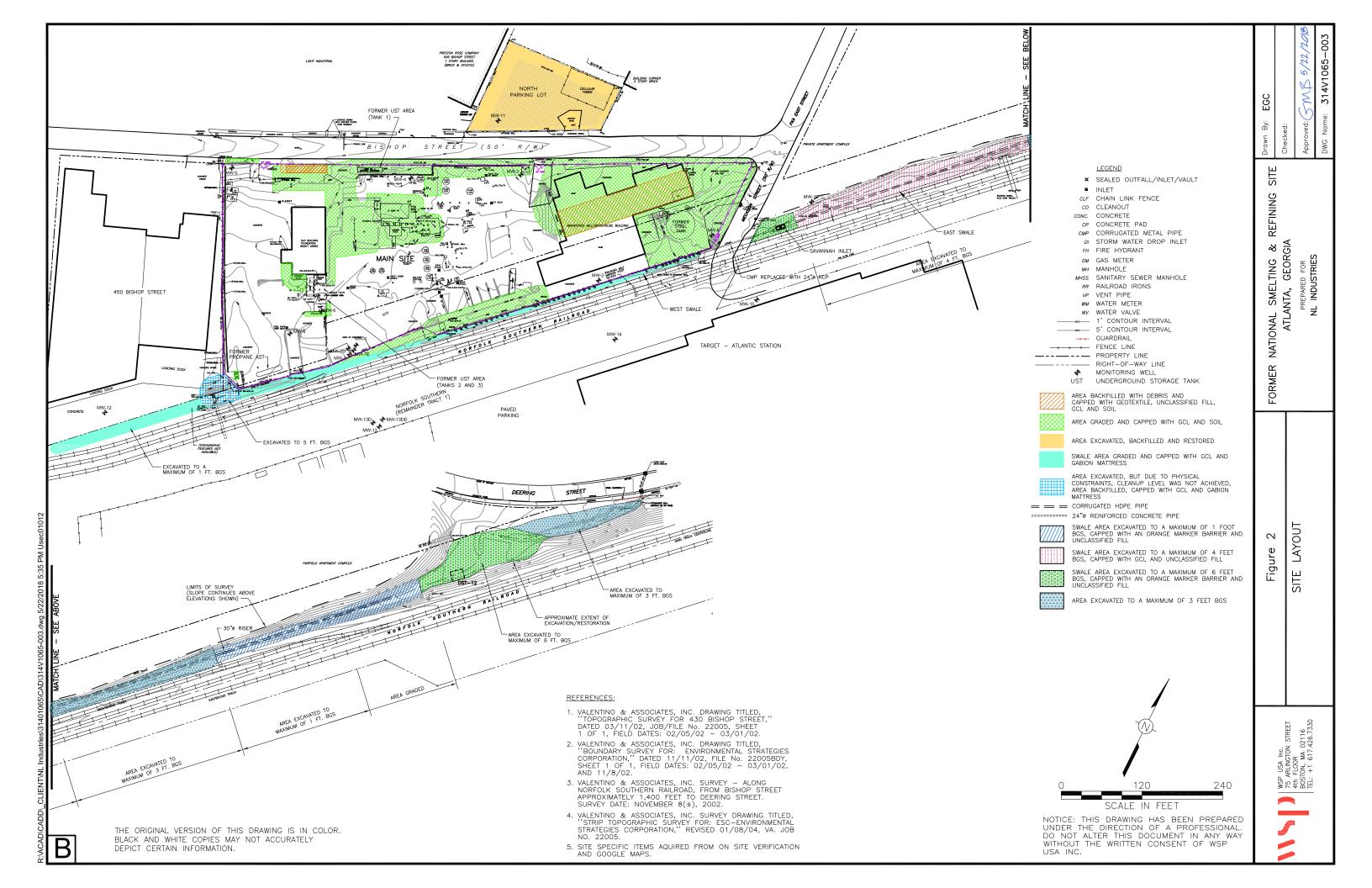
The Site was listed on the Hazardous Sites Index for a release to soil that exceeded a reportable quantity. A release to groundwater that exceeded a reportable quantity did not occur at the Site. LNAPL is no longer present in any monitoring well, and there are no downgradient receptors. Consequently, 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.

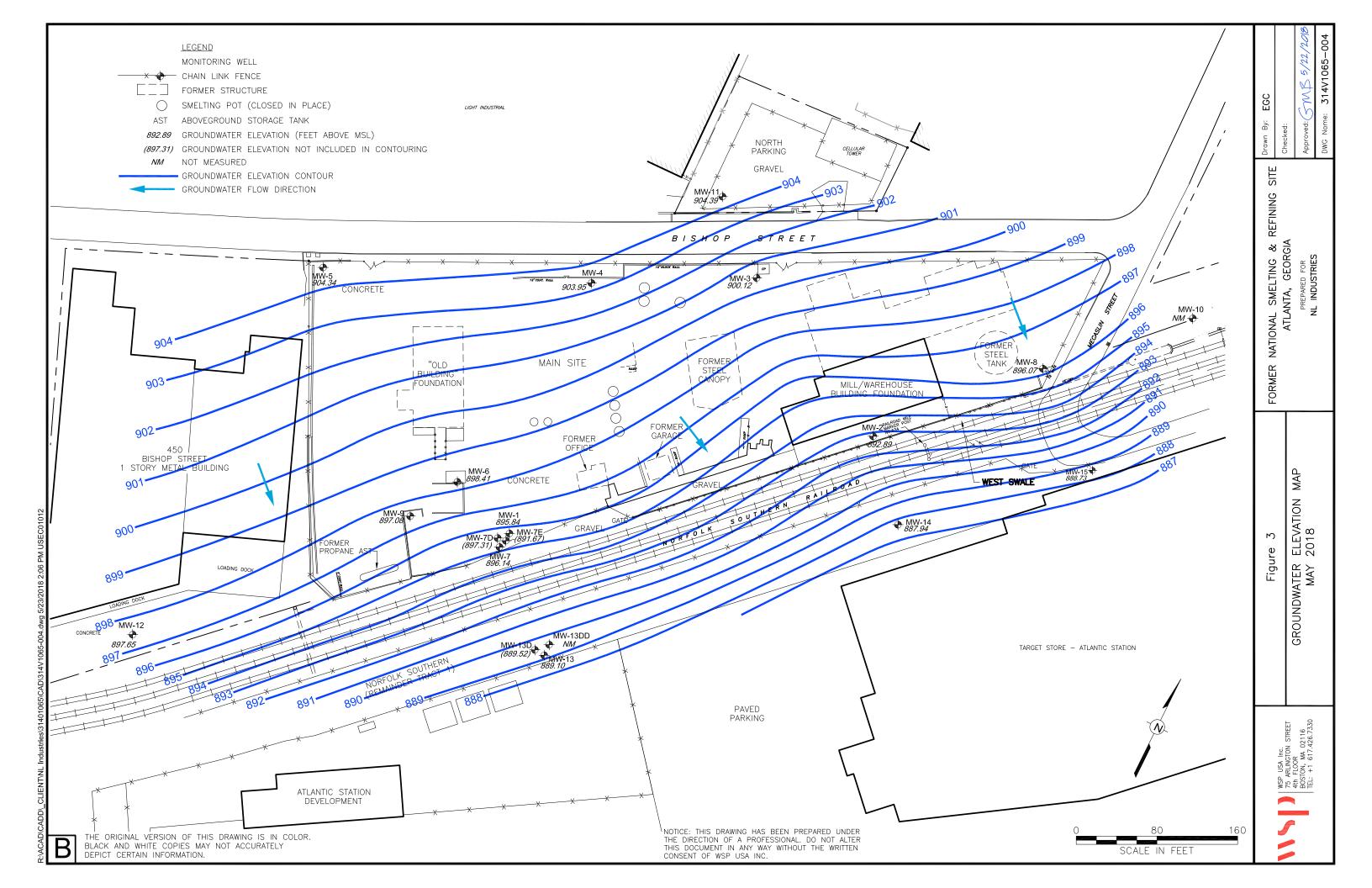
5 PROJECTED MILESTONE SCHEDULE

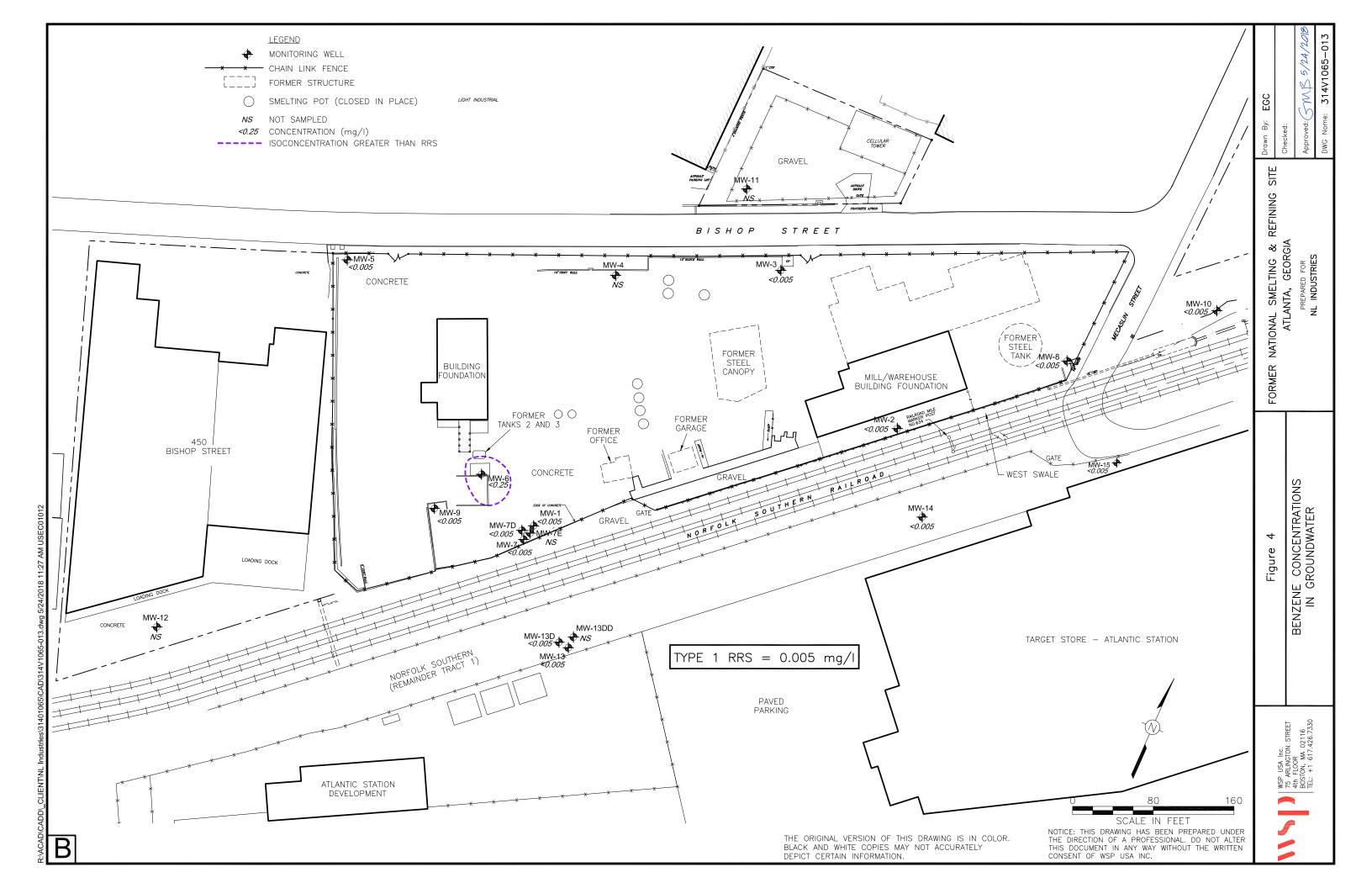
A Compliance Status Report for Groundwater, documenting the investigation of groundwater at the Site, is submitted with this VRP application. No further investigation or remediation of groundwater is planned at the Site. Further activities associated with the Site will be abandonment of the monitoring 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.

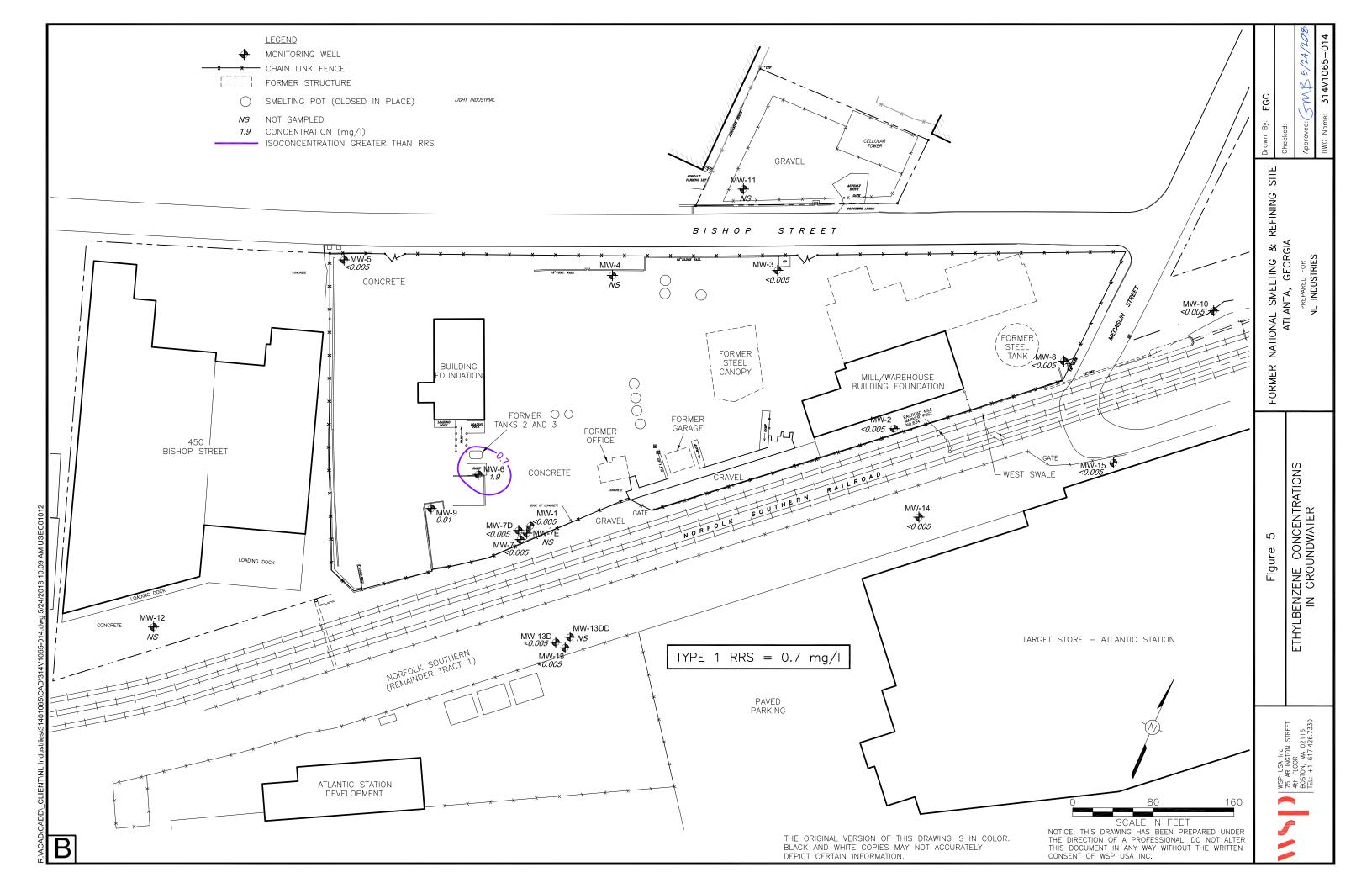
FIGURES

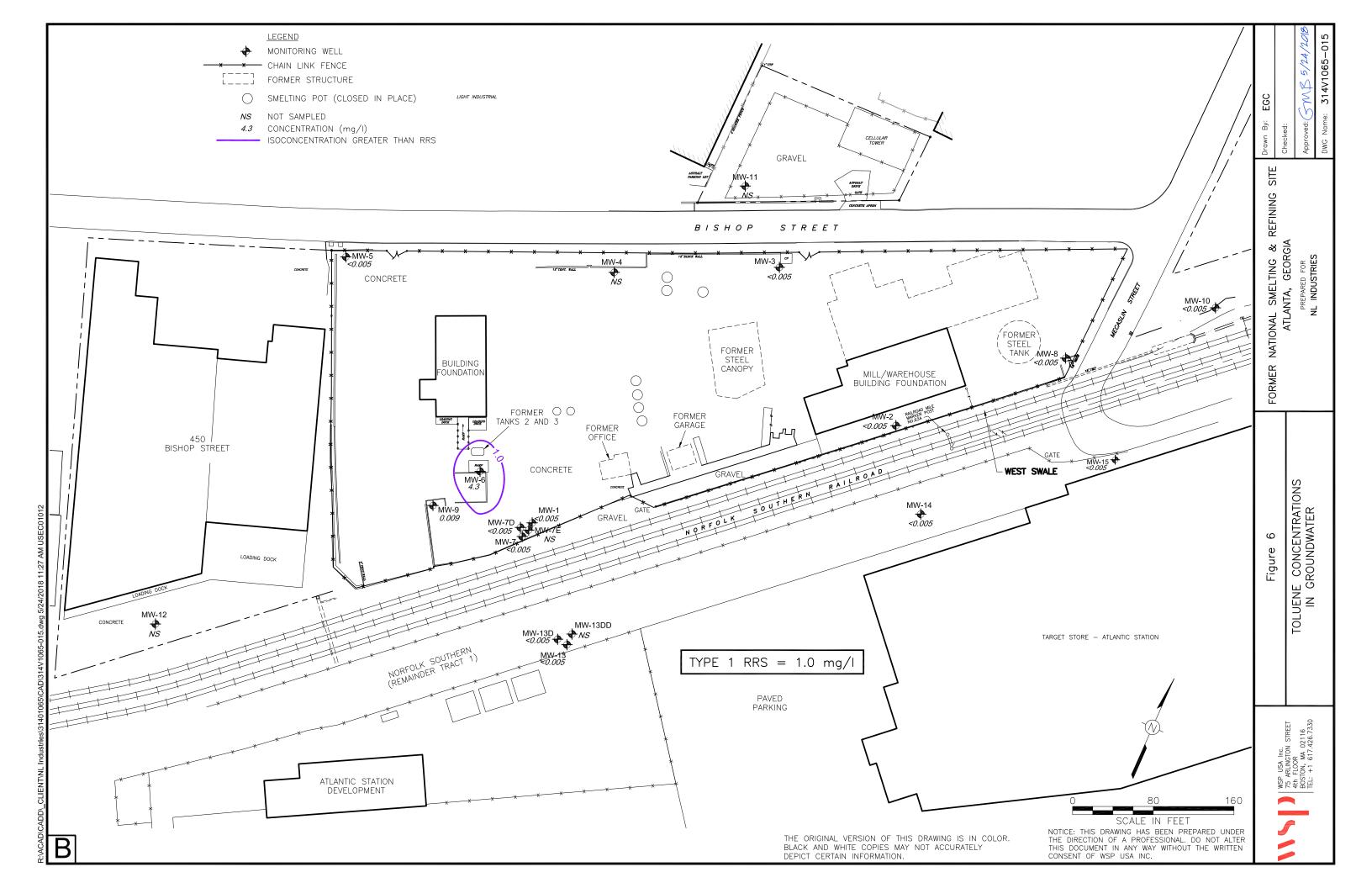


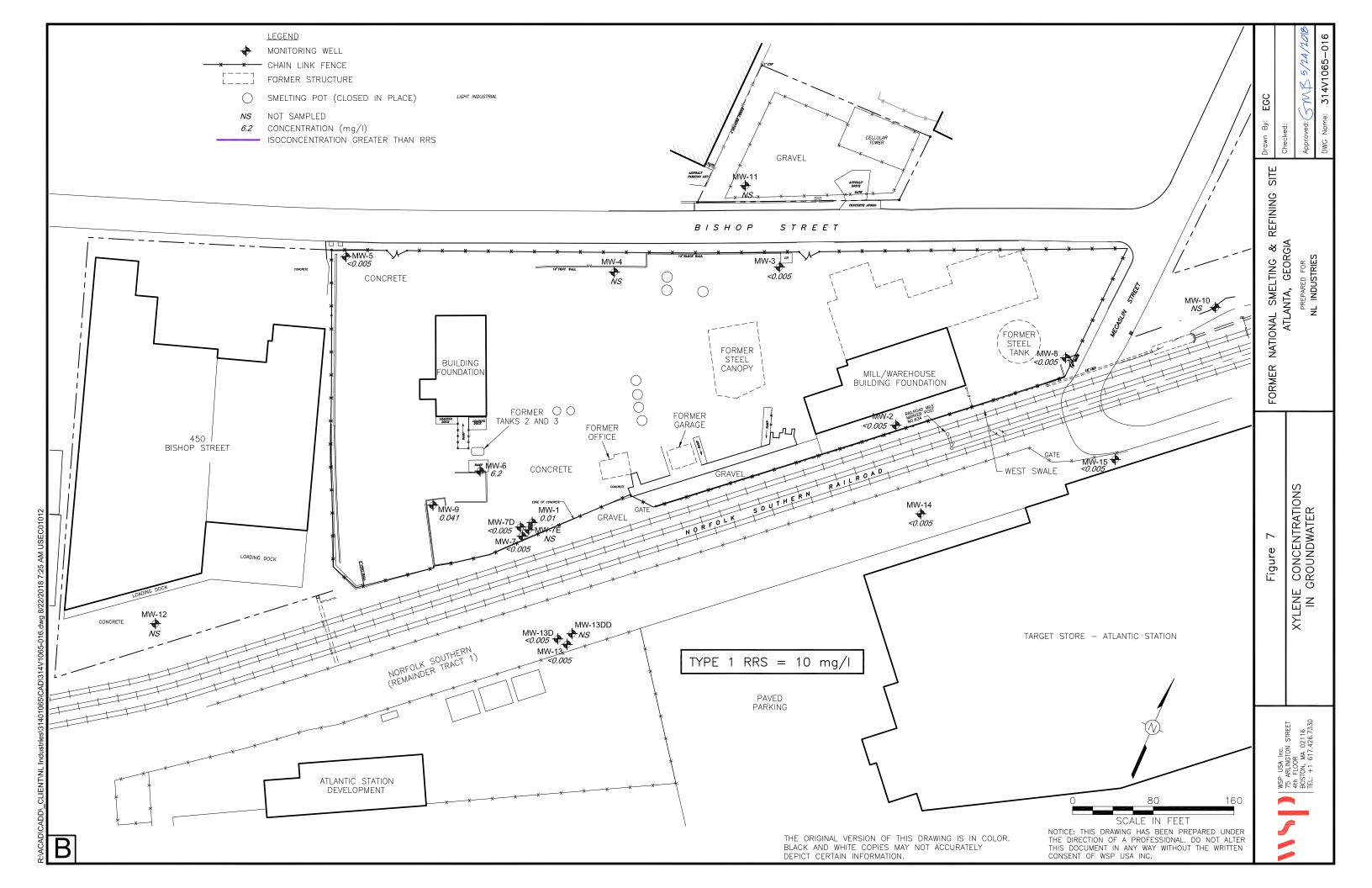


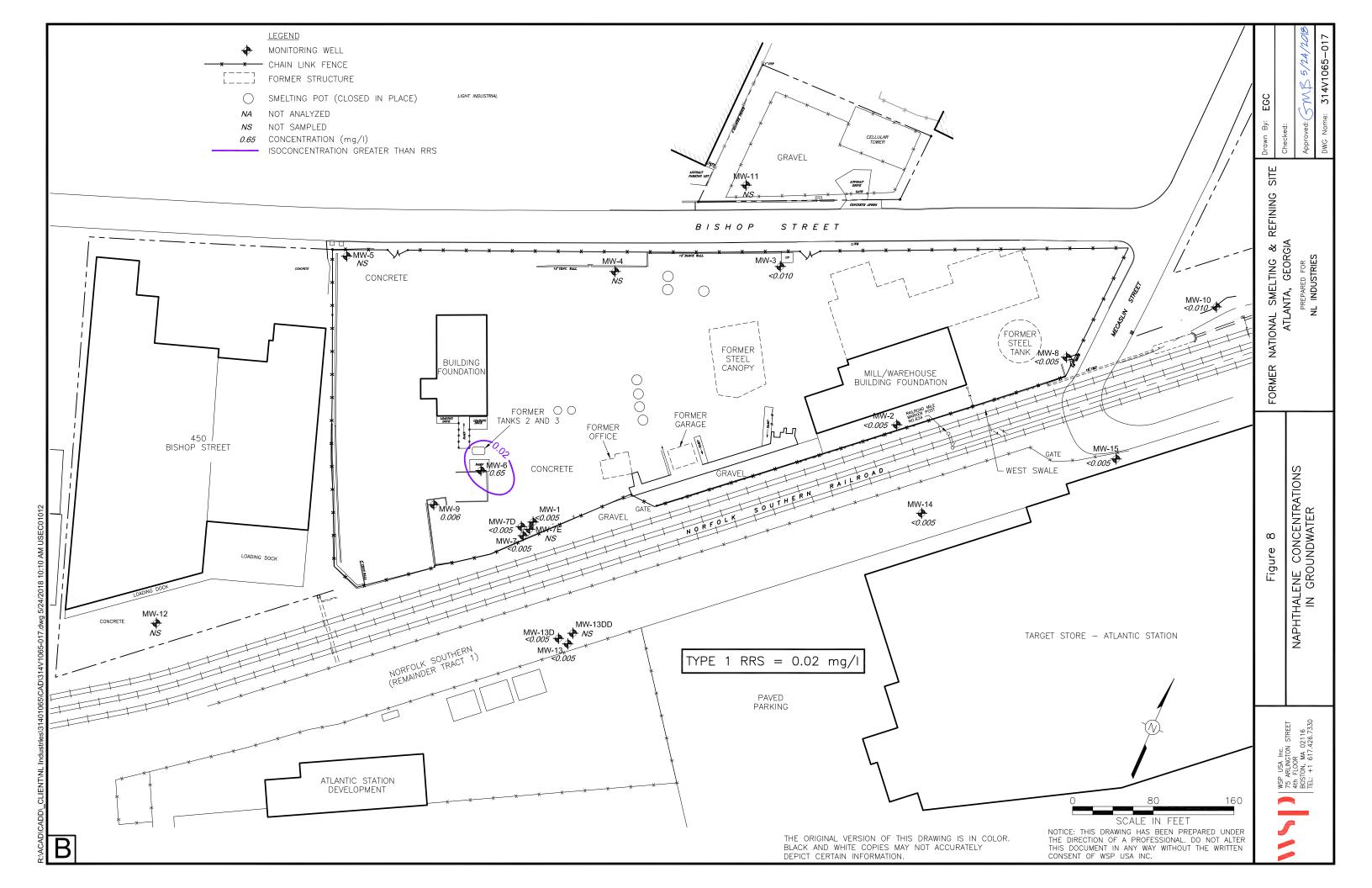


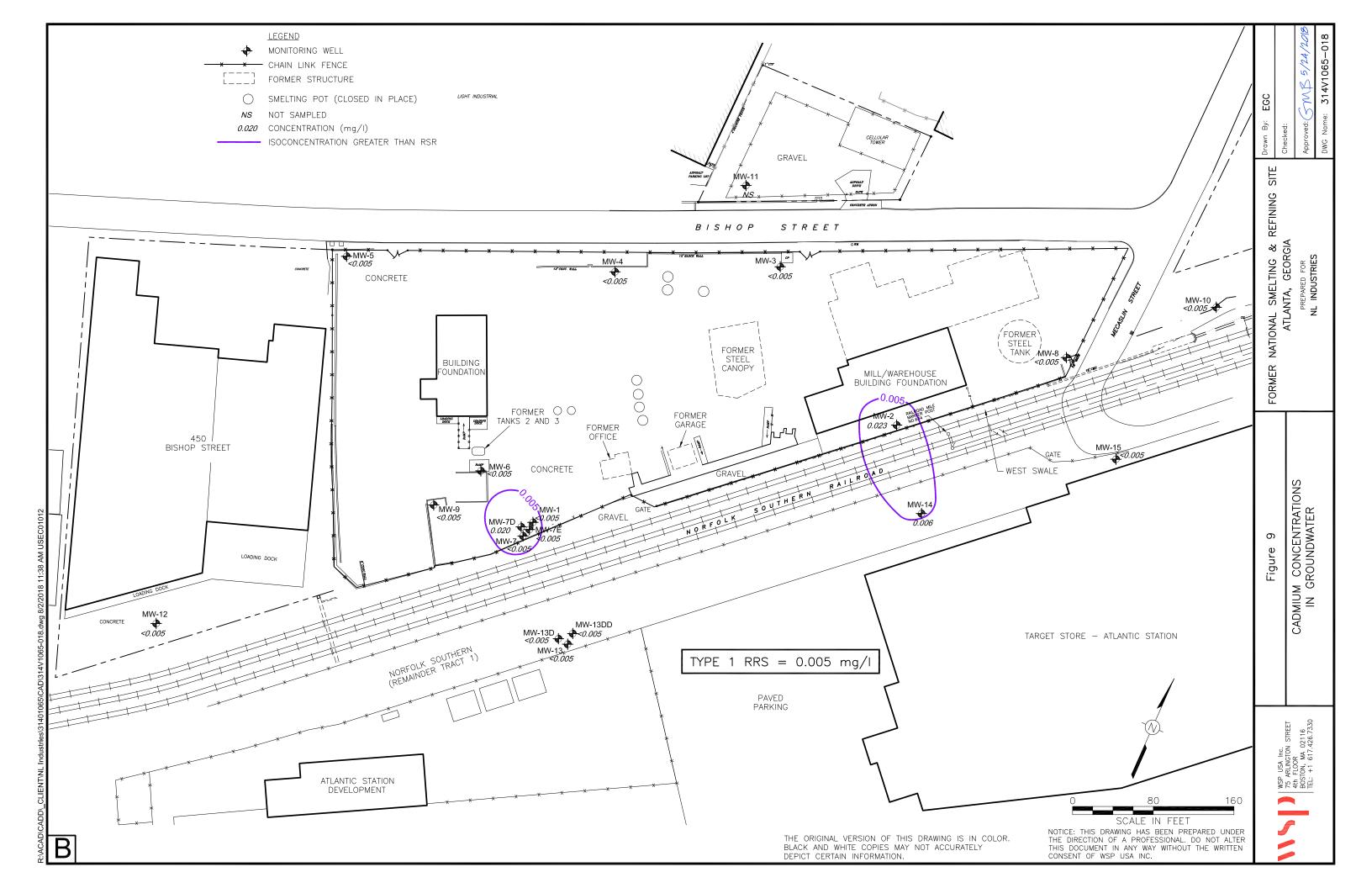


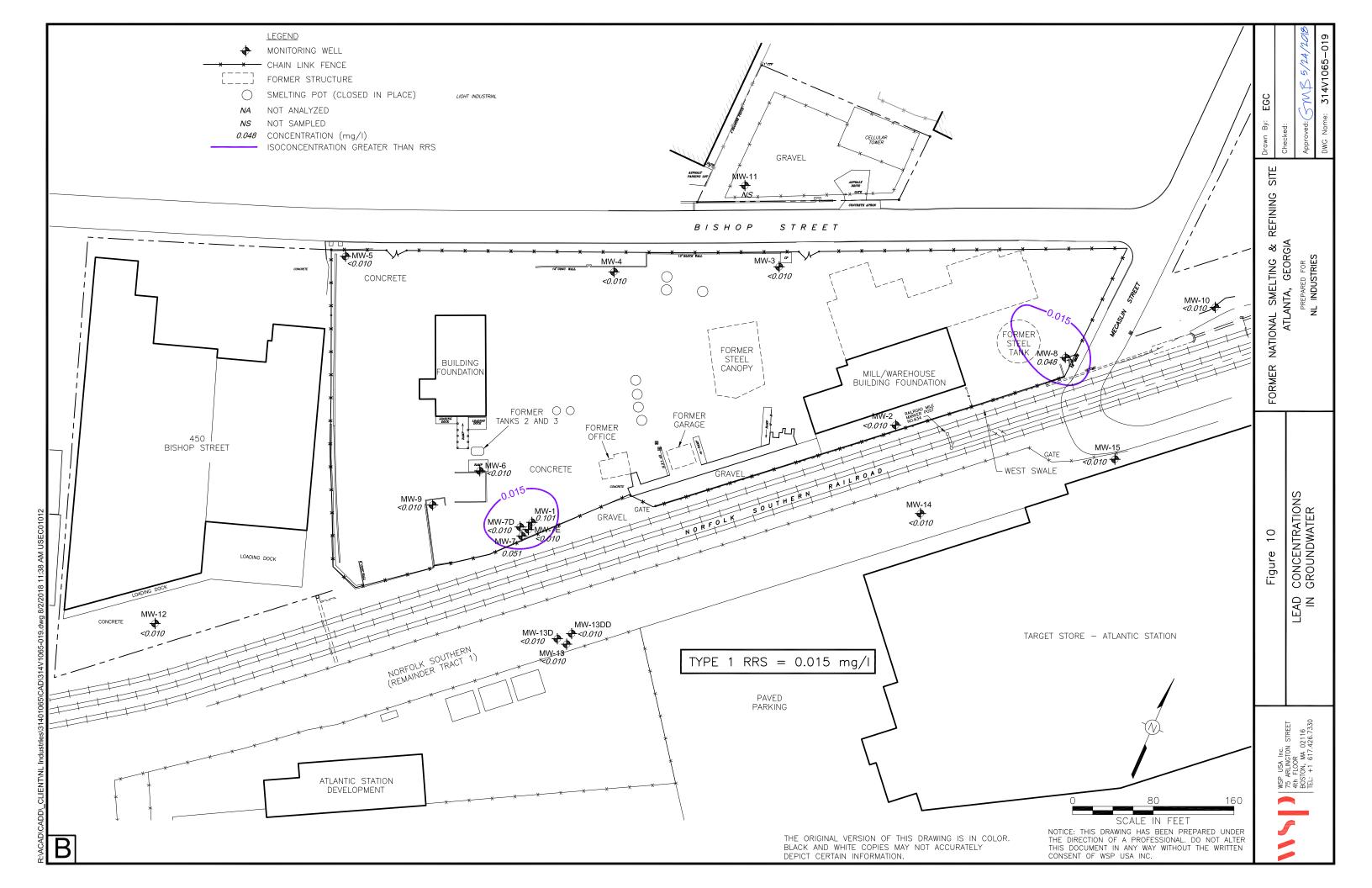












TABLES

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

	CASRN Number	Type 1 <u>RRS (mg/l)</u>	Maximum Concentration	<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)

			Janua	ry 11, 2003	Februa	ry 24, 2004	June 19, 2005		
Well	Screened Interval (bgs)	TOC Elevation	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 Nataional Smelting & Refining Site Atlanta, Georgia (a)

	May 2	24, 2006	June 22, 2006					
Well	Depth to Water	Groundwater Elevation	Depth to Water	Groundwater Elevation				
WEII	vvalei	Lievation	vvalei	Lievation				
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 Nataional Smelting & Refining Site

Atlanta, Georgia (a)

			May	27, 2009	July	7, 2009	August 12, 2009		
Well	Screened Interval (bgs)	TOC Elevation	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 Nataional Smelting & Refining Site Atlanta, Georgia (a)

			March	n 16, 2018	May 14, 2018		
Well	Screened Interval (bgs)	TOC Elevation	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

	MW-1	MW-1	MW-D (b)	MW-1	MW-1	MW-1	MW-1	MW-2	MW-2	<u>MW-2</u>	<u>MW-2</u>	MW-2	MW-2
Date	1/11/03	2/24/04	2/24/04	6/19/05	5/24/06	5/27/09	5/12/18	1/11/03	2/24/04	6/19/05	5/24/06	5/27/09	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

	MW-3	MW-3	MW-3	MW-3	MW-4	MW-4	MW-4	<u>MW-5</u>	MW-5	MW-5
Date	2/24/04	6/19/05	5/23/06	5/27/09	6/19/05	5/23/06	5/27/09	6/19/05	5/23/06	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						
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						
Mercury	< 0.0002	NA	NA	NA						
Nickel	< 0.020	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

	MW-6	MW-D (b)	MW-6	MW-100 (b)	MW-6	<u>MW-6</u>	MW-600 (b)	MW-7	MW-7	MW-7	MW-7	MW-7D	MW-7D	<u>MW-7D</u>	MW-7D
Date	6/19/05	6/19/05	5/25/06	5/25/06	5/28/09	5/14/18	5/14/18	6/19/05	5/24/06	5/27/09	5/11/18	5/25/06	6/22/06	5/27/09	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

	<u>MW-7E</u>	<u>MW-7E</u>	<u>MW-7E</u>	<u>MW-8</u>	<u>MW-8</u>	<u>MW-8</u>	<u>MW-100</u> (b)	<u>MW-8</u>	<u>MW-800</u> (b)	MW-9	<u>MW-9</u>	<u>MW-9</u>	MW-10	MW-11
Date	7/21/06	5/27/09	5/11/18	6/19/05	5/24/06	5/27/09	5/27/09	5/11/18	5/11/18	5/25/06	5/27/09	5/14/18	5/24/06	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

	MW-12	MW-201 (b)	MW-12	MW-13	MW-130 (b)	MW-13	MW-13D	MW-13D	MW-13DD	MW-130DD (b)	MW-14	MW-14	MW-15	MW-15
Date	6/23/06	6/23/06	5/12/18	7/8/09	7/8/09	5/14/18	8/12/09	5/14/18	8/12/09	8/12/09	7/7/09	5/14/18	7/8/09	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

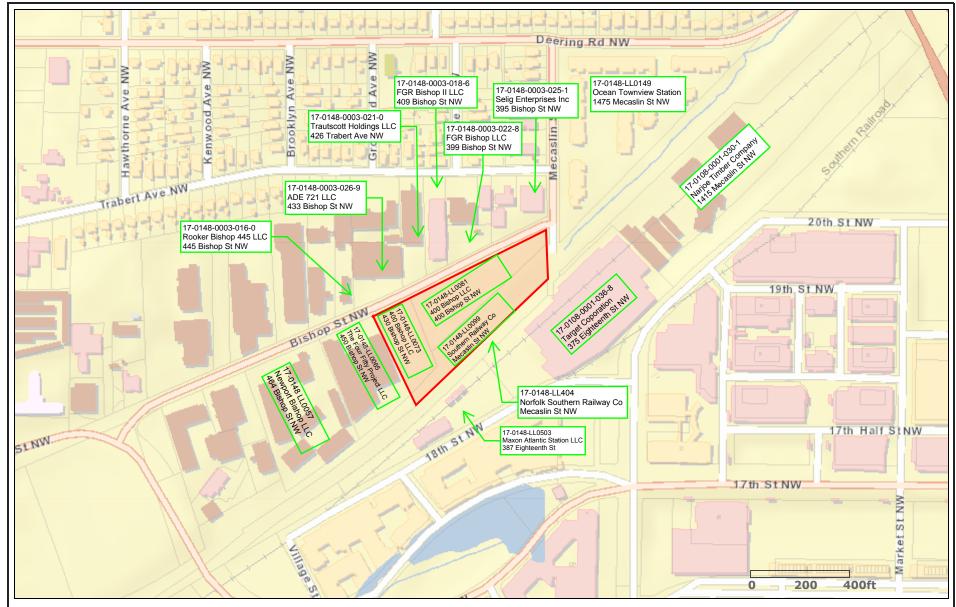


Figure A-1: Qualifying Properties & Abutting Properties Fulton County, Georgia

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

Deed Book 58371 Page 197
Filed and Recorded 1/19/2018 12:00:00 PM
2018-0016804
Real Estate Transfer Tax \$2,000.00
Cathelene Robinson
Clerk of Superior Court
Fulton County, GA
Participant IDs: 6405611605
7067927936

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.

WITNESSETH:

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 SEA

GRANTOR:

ATLANTA FORGE & FOUNDRY COMPANY, a Georgia corporation

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.

Deed Book 58371 Page 201
Filed and Recorded 1/19/2018 12:00:00 PM
2018-0016805
Cathelene Robinson
Clerk of Superior Court
Fulton County, GA
Participant IDs: 6405611605
7067927936

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:

Notary Public

My Commission Expires:

[AFFIX NOTARIAL

GRANTOR:

ATLANTA FORGE & FOUNDRY COMPANY, a Georgia corporation

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.

Tay JD 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.

TRUSTEE'S DEED

THIS INDENTURE, made this day of October, 1989, between STEVEN L. ZIMMEMMAN, 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 June 2, 1989and entered June 7, 1989, by Judge Roland J. Brumbaugh States Bankruptcy Court for the District Court United 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 presises, the sum of Ten and No/100 Dollars (\$10.00) in hand paid at end 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

(SFAL) Steven L. Zimmerman, as and only as

Trustee in Bankruptcy for the Estate of National Smalting and Refining Co., Inc.

STATE OF COLORADO

COUNTY OF Denve

October 1, 1989

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

Signed, sealed and delivered before se this ____ day of _____ day of ______ f989.-

1

Notary Public

Hy commission expires:

12878 PAGE DEG

62731

GEORGIA Fulton County Clerk's Office Superior Court Filed & Recorded Oct 20,1987 at 11:33

anita Thike CLERK

03 12878

P. 66

sin SMC

EXHIBIT "A"

All THAT TRACT or percel of land lying and being in land loc 148 of the 17th District of Felton County, Goorgia, and being more particularly questions on follows:

accountant at the carner formed by the intersection of the mouth ride of links Acres (having a 50-feet right of way) with the west side of Macastin Street (formerly favt Screet); Tunning thence couch 02 degrees 30 minutes 51 reconds rest, slong the west side of Mecantia Street, a distance of 50.7 feet to a point (sold point being 100 feet serthwest of the seemen tenter line of the main tracks of the Atlanta Selt Line of the Southern fellway Company); recaing thence south 43 degrees 60 minutes 56 seconds west, perailel to and 100 feet corthuges of said common center line, bel four to a point; running thomas south 27 degrees 36 stautes of secunda wast, a distance of 32.39 feet to s point; rouning themes south 45 degrees 00 minutes 36 seconds west a distance of 161.50 feet to a point; running theory morth 27 degrees 45 minutes 64 seconds west a distance of 337.79 feet to a point on the south side of Sixhop Street; running thency morth 63 degrees 65 minutes 17 seconds over a distance of 155.00 fort close the south side of Bishop Street; thence continuing slong the court alde of Dichar Acrast, morth 62 degrees, 19 minutes 19 seconds same d distance of 204.39 fout to a point; thence continuing along the south side of Sishup Street north 61 degrees 32 minutes 11 account over a distance of 340.81 (set to a point; thence contining along the south side of Bishep Street north 61 degrees 30 minutes 32 seconds exat a distance of \$4.84 feet to a point intested on the west cide on Nacasila Street and the point of heginning; ventaining and by Gerry or those of paint of servey anticide "Servey for M. Industries, Inc."
June 13, 1961.
June 23, 1961.

APPENDIX

BORING LOGS AND WELL CONSTRUCTION DETAILS

Project: NS&R/Atlanta, GA

Project No.: 127541

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

Completion Date: January 7, 2003 Surface Elevation (ft. MSL): 906.21

Total Depth (ft. bgs): 20

TOC Elevation (ft. MSL): 906.04



ENVIRONMENTAL STRATEGIES CONSULTING LLC

Geologist: JFM Borehole Diameter (in.) 8 Sample Data SUBSURFACE PROFILE Well Construction Recovery Blow Count PID (ppm) Elevation Symbol Description Depth % 0 Ground Surface 0-Concrete -1 Fill 3-3-5 2-4-7 Brown, fine-grained SAND 2000 -3 3-------300 Reddish-brown, micaceous, SAND and Silty CLAY. Moist. 5 -5 5-6= 12-5-15 5-4 3-3-Silty CLAY 8-80 3-3 Reddish brown, mottled, micaceous, moist, soft 9-3-4-10-0 9-7 -11 11 3-3-Clayey SILT 12-90 7-7 Reddish-brown to brown. Micaceous, soft. Moist -13 13-Clayey SILT 2-4-90 7-11 Grades from brown to dark gray. Micaceous, laminated. Wet. Slight -15 petroleum-like odor. 15 4-7-100 16-11-13 Gray, micaceous. Laminated, with some medium SAND -17 17 4-8-18-90 14-16 SAPROLITE Brown and dark grey. Laminated, micaceous, silty with thin medium-grained 19-SAND lenses. Wet. -20 4-7-20-90 15-15 **Boring Terminated** 21-22-23-24 25-

Subcontractor: Richard Simmons Drilling

Denny Harker

Method: 4.25" id HSA

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

			_	Doronoic Diameter (iii)		
Sampl	e Data			SUBSURFACE PROFILE		ction
	Blow Count % Recovery	PID (ppm)	Symbol	Description		Well Construction
0 0			2000	Ground Surface	٦.	
] -1			\bowtie	Concrete	E	
2 -2	50			FILL Black, gravelly SAND, poorly sorted. Damp		
3 5 5	50			Sandy CLAY (FILL) Reddish-brown, fine-grained SAND w/tan CLAY. Stiff. Damp.		
5 -5 -5 -6 -7 -7 -7 -7	80			Sandy CLAY (FILL) Grayish-brown and black. Micaceous, some organics. Stiff. Moist		
9-1	90			Clayey SILT Medium brown, some gravel and CLAY. Micaceous. Wet		
10-1	90		-	Black and brown, wet at 10.5 feet bgs		
12-1	50		distance of the second			Ψ.
14-	80			Clayey SILT Red-brown, mottled, some micaceous fine SAND. Stiff. Damp		
16 -16.5 17 -17.5	80			Grey mottling from 16.5 to 17.5 ft bgs		
18 19 1-19.5	95			Clayey SILT Brownish-tan and white, mottled. Micaceous. Plastic, stiff. Moist		
20	90			Clayey SILT Brown with gold mica. Moist to wet		
22 -22	90					
24 	80			Clayey SILT Brown with black and white laminations. Loose. Wet	,	

Subcontractor: Richard Simmons Drilling

Denny Harker

Method: 4.25" id HSA

Boring Log: MW-3 Project: NS&R/Atlanta, GA Completion Date: 2/19 and 20/04 Surface Elevation (ft. MSL): 911.98 Project No.: 127541 Total Depth (ft. bgs): 20 Location: N prop line, Main Site TOC Elevation (ft. MSL): 911.70 Geologist: GMB Borehole Diameter (in.) 8 Well Construction Sample Data SUBSURFACE PROFILE Recovery **Blow Count** PID (ppm) Elevation Symbol Description Depth % 0 Ground Surface -0.6 FILL Red-brown CLAY. Moist. **GCL** Concrete 50 0 Silty CLAY 3 Yellow-brown to orange-brown. Micaceous. Dense. Moist. No odor or -4 5 6 7 63 **SAPROLITE** Red-brown. Micaceous silty CLAY. 10-11 -12 12 Dark gray silty v. fine SAND 83 13- Light gray and white silty v. fine SAND Gray and brown silty v. fine SAND 14 Wet at approx. 13 feet bgs -15 15 Red-brown silty CLAY. Stiff. Wet. 16 -17 17 90 0 18-GNEISSIC. Thin folded beds of gray, white, and brown silty v. fine SAND. Dense. Damp. 19 -20 20 **Boring Terminated** 21 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 **ENVIRONMENTAL STRATEGIES CONSULTING LLC** TOC Elevation (ft. MSL): 909.70 Geologist: GMB Borehole Diameter (in.) 8 Sample Data SUBSURFACE PROFILE Well Construction Sample Interval % Recovery PID (ppm) Description Symbol Ground Surface Concrete 1 50 SAPROLITE (migmatitic gneiss) Golden-brown. Micaceous silty very fine to fine SAND. 65 2 100 3 12-Yellow-brown silty fine SAND w/mica. Laminated. Damp. Wet at 13 ft bgs. 13. 100 16-17 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 ENVIRONMENTAL STRATEGIES CONSULTING LLC Location: NW/c Main Site TOC Elevation (ft. MSL): 915.69 Geologist: GMB Borehole Diameter (in.) 8 SUBSURFACE PROFILE Sample Data Well Construction Sample Interval % Recovery PID (ppm) Description Symbol Depth Ground Surface Concrete 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. 50 .1 2 85 11-12-3 100 14-15-16-17-100 18-19-20-Subcontractor: Geo Lab Method: Geoprobe/4.25" id HSA Driller/Operator: Joe Grantham

Project: NS&R/Atlanta, GA

Project No.: 127541

Location: NW/c Main Site

Driller/Operator: Joe Grantham

Completion Date: 6/15/05

Surface Elevation (ft. MSL): 915.80

Total Depth (ft. bgs): 22

TOC Elevation (ft. MSL): 915.69

ENVIRONMENTAL STRATEGIES CONSULTING LLC

Geologist: GMB

Borehole Diameter (in.) 8

		gist: GM			Borehole Diameter (in.) 8	
·····	Sam	ple Data	I	<u> </u>	SUBSURFACE PROFILE	
Depth	Sample Interval	% Recovery	PID (ppm)	Symbol	Description	Well Construction
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.	
					Boring Terminated	
23						•
24						
247		4				
25						•
26						
27			•	-		
28						
3						
29-						
30=						•
3	. •					
31						
32		,				
33-						
34			•			
٦, ‡		-				
35						
36-						
<u>,,</u>						
37			·			
38						
39			٠			
בינ [
40-						
	Subco	ntractor:	Geo Lab	•	Method: Geoprobe/4.25" id HSA	

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 **ENVIRONMENTAL STRATEGIES CONSULTING LLC** Location: 15'S of fmr UST TOC Elevation (ft. MSL): 908.52 Geologist: GMB Borehole Diameter (in.) 8 Sample Data SUBSURFACE PROFILE Well Construction Sample Interval % Recovery PID (ppm) Description Symbol Ground Surface **FILL** 0-1.5 ft bgs: Gravel and sand. 1.5-3 ft bgs: Gray or red-brown fine SAND and gravel 80 1 3-3.5 ft bgs: CONCRETE 3.5-5 ft bgs: Black SAND, pebbles, brick fragments, cinders, and lead slag. Dry. 2 85 10-SAPROLITE 5-8.5 ft bgs: Red-brown silty fine SAND w/mica. 11-8.5-15 ft bgs: Gray silty fine SAND w/mica. Wet at approx. 9.5 ft bgs. Strong petroleum odor, greasy feel. 12-100 3 13-14-15-16-17-18-19-20-Subcontractor: Geo Lab Method: Geoprobe/4.25" id HSA Driller/Operator: Joe Grantham

Project: NS&R/Atlanta, GA

Project No.: 127541

Location: 10' SW of MW-1

Geologist: GMR

Completion Date: 6/16/05

Surface Elevation (ft. MSL): 906.04

Total Depth (ft. bgs): 33

TOC Elevation (ft. MSL): 905.62

Borehole Diameter (ip.) 8



ENVIRONMENTAL STRATEGIES CONSULTING LLC

	Geo	logist: G	SMB			Borehole Diameter (in.) 8	
•	Sa	mple Dat	а			SUBSURFACE PROFILE	ig E
Depth	Elevation	Blow Count	% Recovery	PID (ppm)	Symbol	Description	Well Construction
0-	0					Ground Surface	
1- 2- 3- 4- 5-			60			FILL Orange-brown, red-brown, and brown. Silty fine SAND w/pebbles. Micaceous. Dry.	
"	-6				496	Black silty CLAY, Micaceous, Soft.	
6- 7- 8- 9-			100				
11- 12- 13- 14- 15- 16- 17- 18- 20- 21- 22- 23- 24- 25-						SAPROLITE Orange-brown and gray. Laminated, micaceous, silty CLAY with thin lenses of fine- to medium-grained SAND. Wet at 9 ft bgs.	

Subcontractor: Geo Lab

Joe Grantham

Method: Geoprobe/4.25" id HSA

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

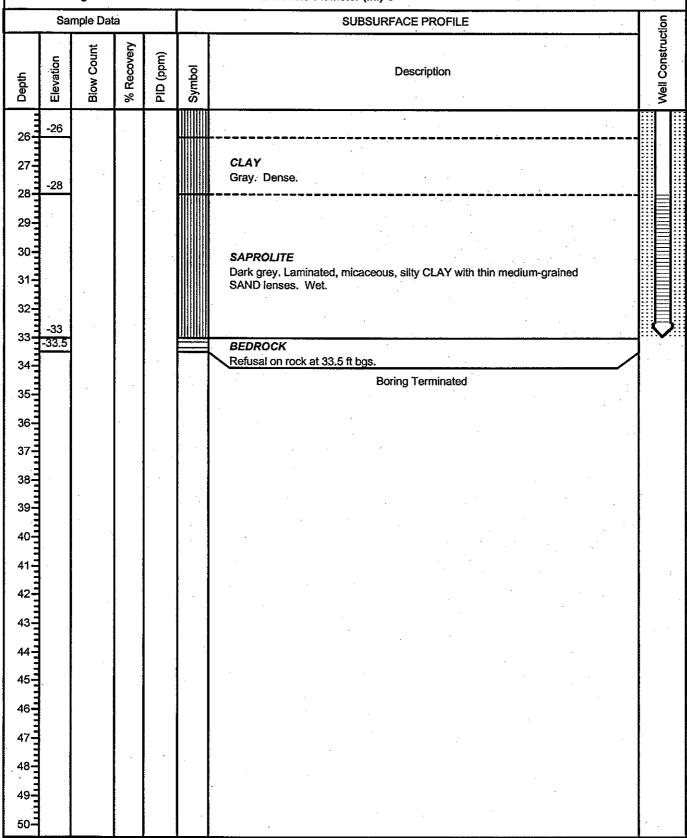
Total Depth (ft. bgs): 33

TOC Elevation (ft. MSL): 905.62

Borehole Diameter (in.) 8



ENVIRONMENTAL STRATEGIES CONSULTING LLC



Subcontractor: Geo Lab

Joe Grantham

Method: Geoprobe/4.25" id HSA

Project: NS&R/Atlanta, GA

Project No.: 127541

Location: 8' W of MW-7

Subcontractor: Geo Lab

Joe Grantham

Geologist: GMB

Completion Date: 5/25/2006

Surface Elevation (ft. MSL): 906.24

Total Depth (ft. bgs): 65

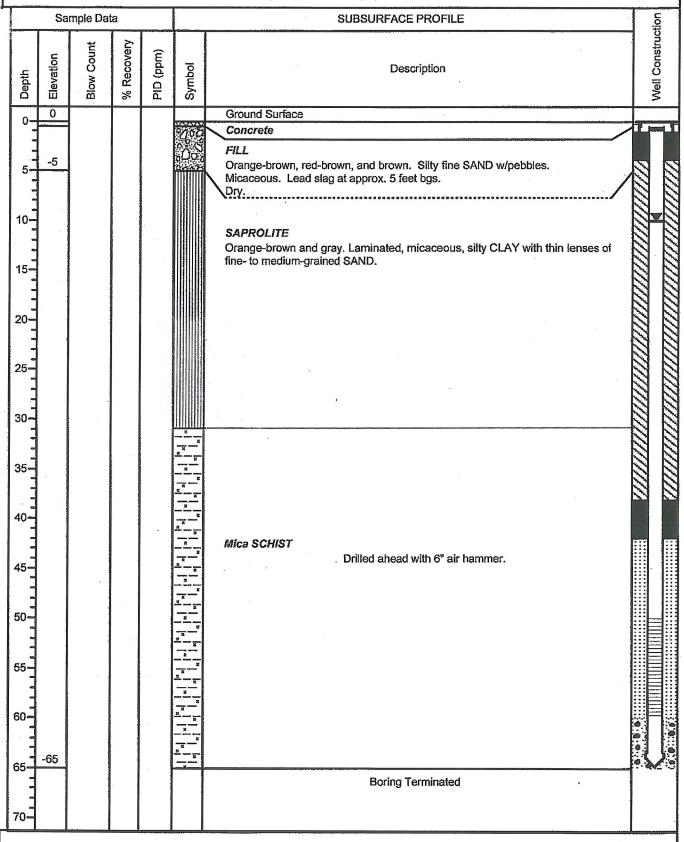
TOC Elevation (ft. MSL): 905.99

Borehole Diameter (in.) 12/6



ENVIRONMENTAL STRATEGIES CONSULTING LLC

Method: 6.25" id HSA/6" air hammer



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"



	Sa	mple D	ata			Subsurface Profile	
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description Ground Surface	Well Details
20 — 20 — 40 — 60 — - 80 —						Concrete 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 Bedrock, quartz and mica - weathered area at 71 to 72 feet bgs - saturated at approximately 80 feet bgs Bottom of Boring at 90 feet Installed double cased, flush mounted monitoring well using Sch40 4"	
100-						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

Driller/Operator: Joe Grantham

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

Contoriet GMR

Rorabala Diameter (in) 8

Completion Date: 6/16/05

Geologist: GMB	Borehole Diameter (in.) 8	
Sample Data	SUBSURFACE PROFILE	
Depth Sample Interval % Recovery PID (ppm)		Well Construction
0	Ground Surface	\prod_{i}
1 1 100 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Co.	
6 7 2 100 8 9 10	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.	
11	SAPROLITE Red-brown and gray silty fine SAND w/mica. Roring Terminated	
16- 17- 18- 19- 20-	Boring Terminated	
Subcontractor: Geo Lab	Method: Geoprobe/4.25" id HSA	

Project: NS&R/Atlanta, GA

Project No.: 127541

Location: W of GP-8

Subcontractor: Geo Lab

Joe Grantham

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

⊢		.09.00					_	_	_
	Sa	mple Dat	ta		<u> </u>	SUBSURFACE PROFILE		cţio	
Depth	Elevation	Blow Count	% Recovery	PID (ppm)	Symbol	Description		Well Construction	
0-	0					Ground Surface			_
"=					XXXX	Concrete	耳		Ę
1 2 3 4			30		S 0.5 0.5 0.5 8 9.6 9.6 9.6	FILL Orange-brown, red-brown, brown and black. Silty fine SAND w/pebbles. Micaceous. Dry. Layers of CONCRETE at 2.5 ft and 4 ft bgs.	11111111111	111111111111	1111111111
6-1 7-1 8-1			50			CLAY Dark brown becoming brown. Dense. Damp.		*	
10-			100			Silty CLAY Brown. Micaceous.			
13 14 15 16 17 18						SAPROLITE Brown and gray. Laminated, micaceous. Silty CLAY with thin lenses of fine- to medium-grained SAND. No odor.			
19-						Boring Terminated	1	-	
20 21 22 23 24									
25									_

Method: Geoprobe/4.25" id HSA

Project: NS&R/Atlanta, GA

Project No.: 127541

Location: 35' E of Mecaslin culvert

Geologist: GMB

Subcontractor: Geo Lab

Joe Grantham

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

		amala Da	to			SUBSUBLACE PROFILE	-	• <u>_</u>	
<u> </u>	S	ample Da	1	1	ļ.,	SUBSURFACE PROFILE	4	clio	
Depth	Elevation	Blow Count	% Recovery	PID (ppm)	Symbol	Description		Well Construction	
	0					Ground Surface	7/	;	N/
1 .1	-1.5					Gravel			
3	ումումումումում Հ		50	0		Silty CLAY Brown, red-brown, dark brown, and gray. Micaceous.			
6	<u> </u>								
8	imimimi		40	0		SAPROLITE			
11 12 13		*** Andrews Andrews	100			Silver, tan, and gold, becoming gray. Silty v. fine SAND and clay, with mica. Laminated. Auger refusal at 16 ft bgs.			
14 15 16 17 18 19 20 21 22 23 24 25	-16 -16		interview.			Boring Terminated			

Method: Geoprobe/4.25" id HSA

Project: NS&R/Atlanta, GA

Project No.: 127562

Location: N. Pkg Area

Geologist: GMB

Robert Sullivan

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 % Recovery Blow Count PID (ppm) Elevation Symbol Description Depth Ö Ground Surface 7700 Gravel 95 **FILL** Red-brown clayey fine SAND, micaceous. Dry. 100 12 100 13-**SAPROLITE** Brown and gold. Laminated, micaceous. Silty clayey SAND, with thin lenses of fine- to medium-grained SAND. No odor. 15 16 100 18 19 20 21 22 **Boring Terminated** 24 25 Subcontractor: Geo Lab Method: Geoprobe/4.25" id HSA

Project: NS&R/Atlanta, GA

Project No.: 127562

Location: 450 Bishop Street

Subcontractor: Geo Lab

Robert Sullivan

Completion Date: 6/22/2006

Surface Elevation (ft. MSL): 909.37

Total Depth (ft. bgs): 19

TOC Elevation (ft. MSL): 908.95



ENVIRONMENTAL STRATEGIES CONSULTING LLC

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

Method: Geoprobe/4.25" id HSA

Project: NL-Atlanta Surface Elevation (feet AMSL*): 900.96

Project No.: 127562 TOC Elevation (feet AMSL*): 904.12

Location: 430 Bishop St., Atlanta, GA Total Depth (feet): 25

Completion Date: June 13, 2009 Borehole Diameter (inches): 2

*AMSL = Above mean sea level



	Sa	mple	Data			Subsurface Profile	
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description Ground Surface	Well Details
-			- - -	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.	X
15 —			- - - -	100			
- - - - 25-						Light-brown, dense, very fine-grained silty sand with greenish-gray, orange, and white mica foliations. Wet.	
-						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

Project: NL-Atlanta Surface Elevation (feet AMSL*): 901.08

Project No.: 127562 TOC Elevation (feet AMSL*): 903.60

Location: 430 Bishop St., Atlanta, GA **Total Depth (feet):** 33

Completion Date: August 5, 2009 Borehole Diameter (inches): 6

*AMSL = Above mean sea level



		Saı	mple	Data			Subsurface Profile	
44000		Sample/Interval	PID/OVM (ppm)	Blow Count	Recovery	Lithology	Description	Well Details
_	,	Ö		Δ	%	<u> </u>	Ground Surface	V L S V L S
1	5						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. 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. 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. Light-brown, hard, very fine-grained silt with greenish-black to gray biotite mica foliations. White saprolitic migmatite at 20' bgs. Wet.	

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

Method: Rotosonic

WSP Environment & Energy 1740 Massachusetts Avenue Boxborough, MA 01719

Project: NL-Atlanta Surface Elevation (feet AMSL*): 901.08

Project No.: 127562 TOC Elevation (feet AMSL*): 903.60

Location: 430 Bishop St., Atlanta, GA **Total Depth (feet):** 33

Completion Date: August 5, 2009 Borehole Diameter (inches): 6

*AMSL = Above mean sea level



	Sa	mple	Data			Subsurface Profile	
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description	Well Details
-						Light-brown, hard, very fine-grained silt with greenish-black to gray biotite mica foliations. White saprolitic migmatite at 20' bgs. Wet. (continued)	
30 —						Bluish green-gray with mottled yellow-orange, very stiff, very fine-grained silt with biotite foliations. Wet.	
_					! <i>][]]</i>];	Mica Schist Bluish-black, weathered mica schist. Wet.	
_						Bottom of Boring at 33 feet	
35—						Ç	
-							
-							
40-							
-							
-							
45 —							
-							
50 —							

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

Method: Rotosonic

WSP Environment & Energy 1740 Massachusetts Avenue Boxborough, MA 01719

Boring Log: MW-13DD

Project: NL-Atlanta Surface Elevation (feet AMSL*): 901.01

Project No.: 127562 TOC Elevation (feet AMSL*): 903.67

Location: 430 Bishop St., Atlanta, GA **Total Depth (feet):** 50

Completion Date: August 4, 2009 Borehole Diameter (inches): 6

*AMSL = Above mean sea level



	Sa	mple	Data			Subsurface Profile	
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description Ground Surface	Well Details
-			- - - -	100		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,	
5-			- - - -	60		And gravel fragments. Dry. 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	
10-			- - - -	60		clayey silt with foliated silver mica flakes. Moist. 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	
15 — —			- - - -	100		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 migmatitie 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

Boring Log: MW-13DD

Project: NL-Atlanta Surface Elevation (feet AMSL*): 901.01

Project No.: 127562 TOC Elevation (feet AMSL*): 903.67



Completion Date: August 4, 2009 Borehole Diameter (inches): 6

*AMSL = Above mean sea level



Sample Data					Subsurface Profile		
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description	Well Details
-			- - -	100		Light-brown, hard, very fine-grained silt with greenish-black to gray biotite mica foliations. Saprolitic migmatitie at 20' bgs. Wet. (continued)	
30 —			- - -	100	Wester.	Bluish green-gray with mottled yellow-orange, very stiff, very fine-grained silt with biotite foliations. Wet.	
35—	X		- - - -	100		Mica Schist Bluish-black, weathered mica schist. Wet. Black mica schist with weathered gold mica foliations at 42' bgs.	
-			- - - -	100		Quartz foliations from 43' to 50' bgs.	
40 —			- - -	100			
- 45 — - -			- - -	100			
50 —			- - - -	100			
-						Bottom of Boring at 50 feet	<u> </u>

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

Method: Rotosonic

WSP Environment & Energy 1740 Massachusetts Avenue Boxborough, MA 01719

Boring Log: MW-14

Project: NL-Atlanta Surface Elevation (feet AMSL*): 897.32



Location: 430 Bishop St., Atlanta, GA Total Depth (feet): 25

Completion Date: June 13, 2009 Borehole Diameter (inches): 2

*AMSL = Above mean sea level



	Sample Data Subsurface Profile						
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description Ground Surface	Well Details
-			-	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-			-	95		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. SAPROLITE Reddish-brown with mottled orange, medium dense, very fine-grained silty sand with mica. Moist.	
10			- - -	85		Light-brown, medium dense, very fine-grained silty sand with mottled yellow, coarse-grained sand and mica. Wet at 10 feet bgs.	
15 —			- - -	80		Bluish-gray with mottled brown, very dense, very fine-grained silty sand with biotite foliations. Wet. Light-brown with mottled orange, very dense, very fine-grained silty sand with horizontal mica foliations. Yellow-white, coarse-grained	
25 —						Bottom of Boring at 25 feet Soil samples collected from 0-2, 5-7, and 9-11 feet bgs for target	

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 Surface Elevation (feet AMSL*): 894.67

Project No.: 127562 TOC Elevation (feet AMSL*): 897.35

Location: 430 Bishop St., Atlanta, GA **Total Depth (feet):** 20

Completion Date: June 15, 2009 Borehole Diameter (inches): 2

*AMSL = Above mean sea level



	Sa	mple	Data		Subsurface Profile				
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description Ground Surface			
5		ш.		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). Poorly-Graded Sand with Gravel (SP) Black, coarse-grained sand with cinders and coal (FILL). Dry. 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. SAPROLITE Greenish-black with mottled brown, very fine-grained silty sand			
10				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. Light-brown, dense, very fine-grained silty sand with greenish-gray, orange, and white mica foliations. Wet. Bottom of Boring at 20 feet			
25 —						Soil samples collected from 0-2 and 5-7 feet bgs for target metals.			

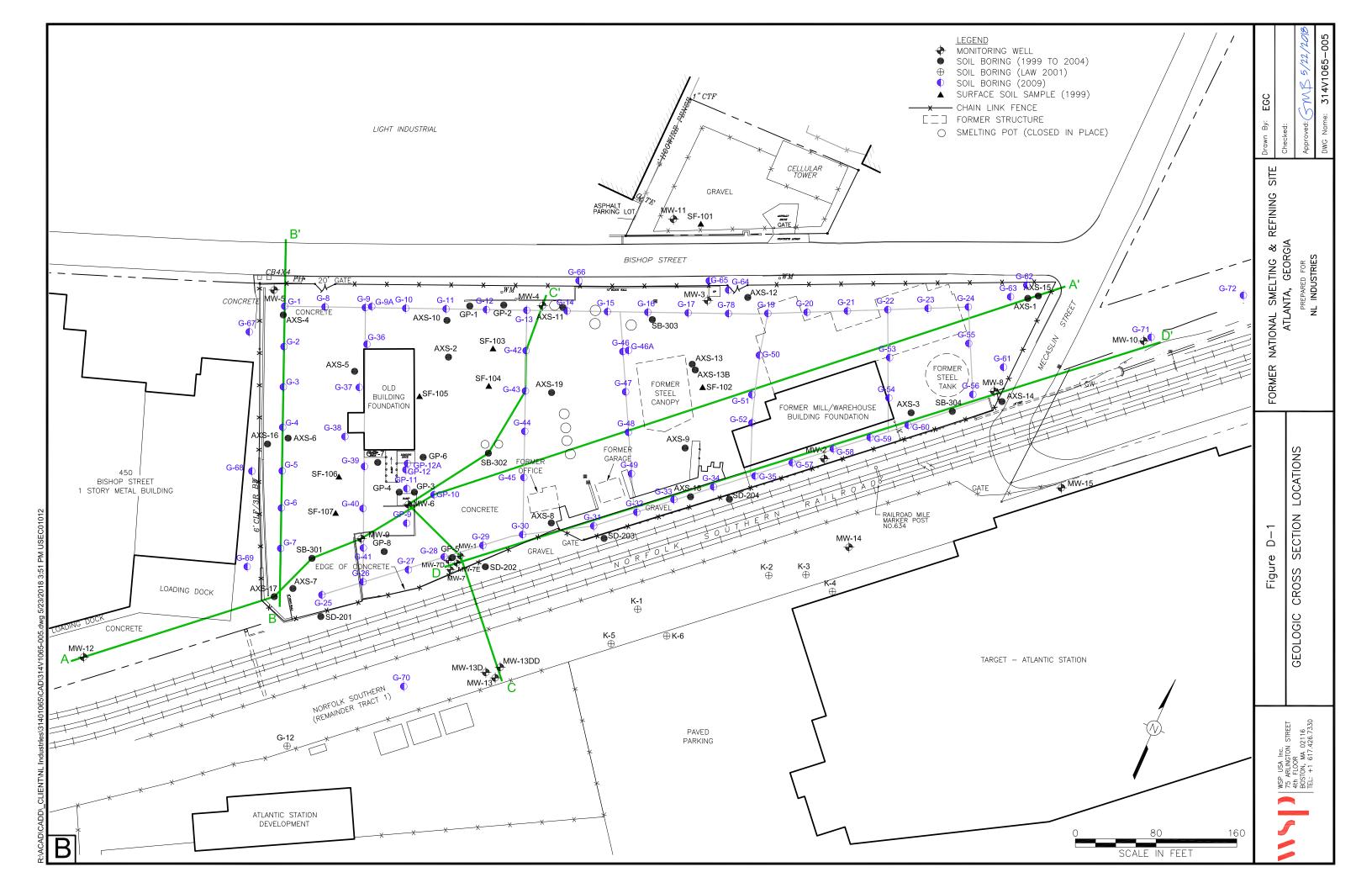
Geologist(s): Heather M. Usle Subcontractor: Geo Lab Driller/Operator: Robert Sullivan

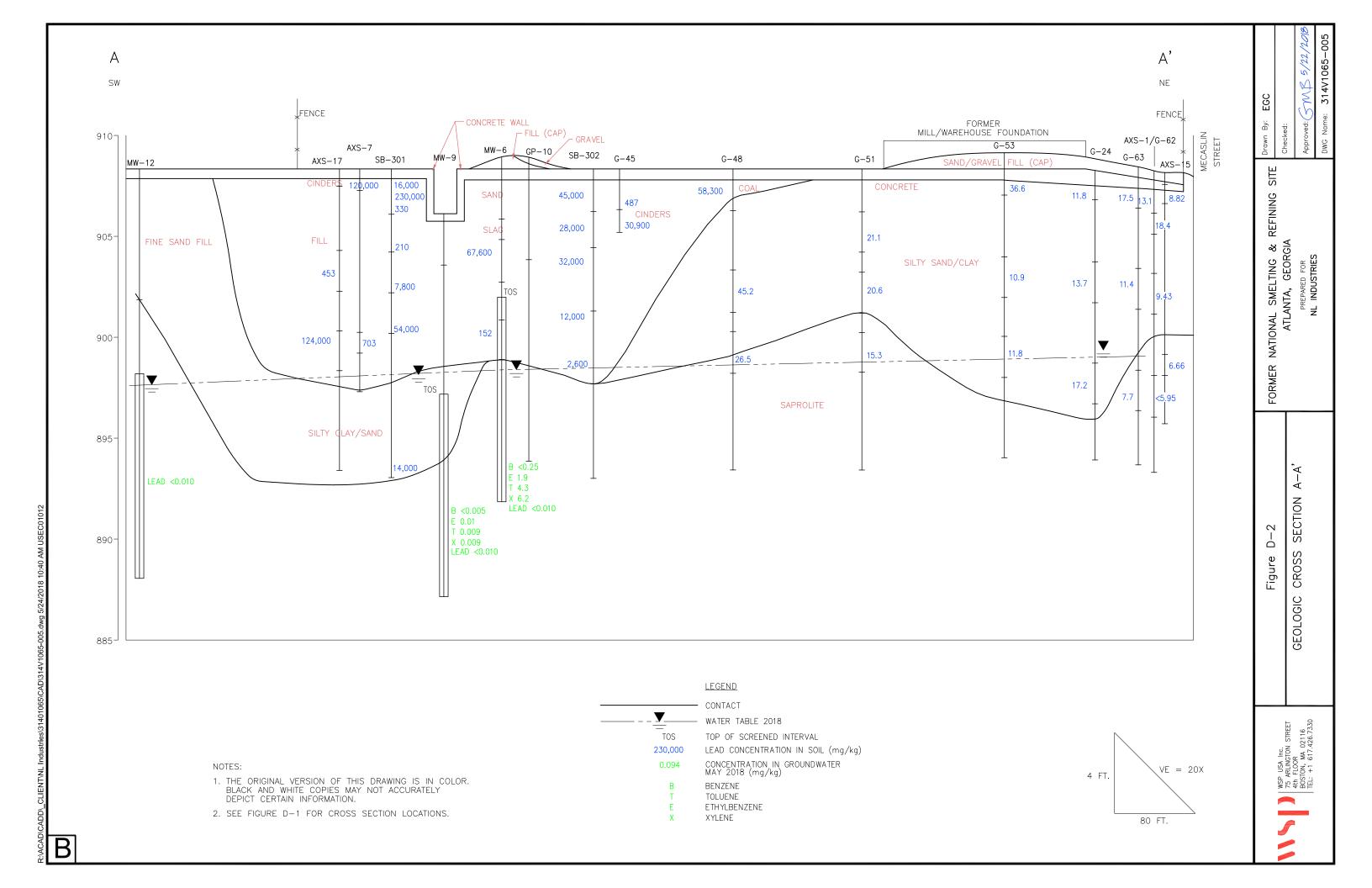
Method: Direct Push

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

APPENDIX

GEOLOGIC CROSS SECTIONS



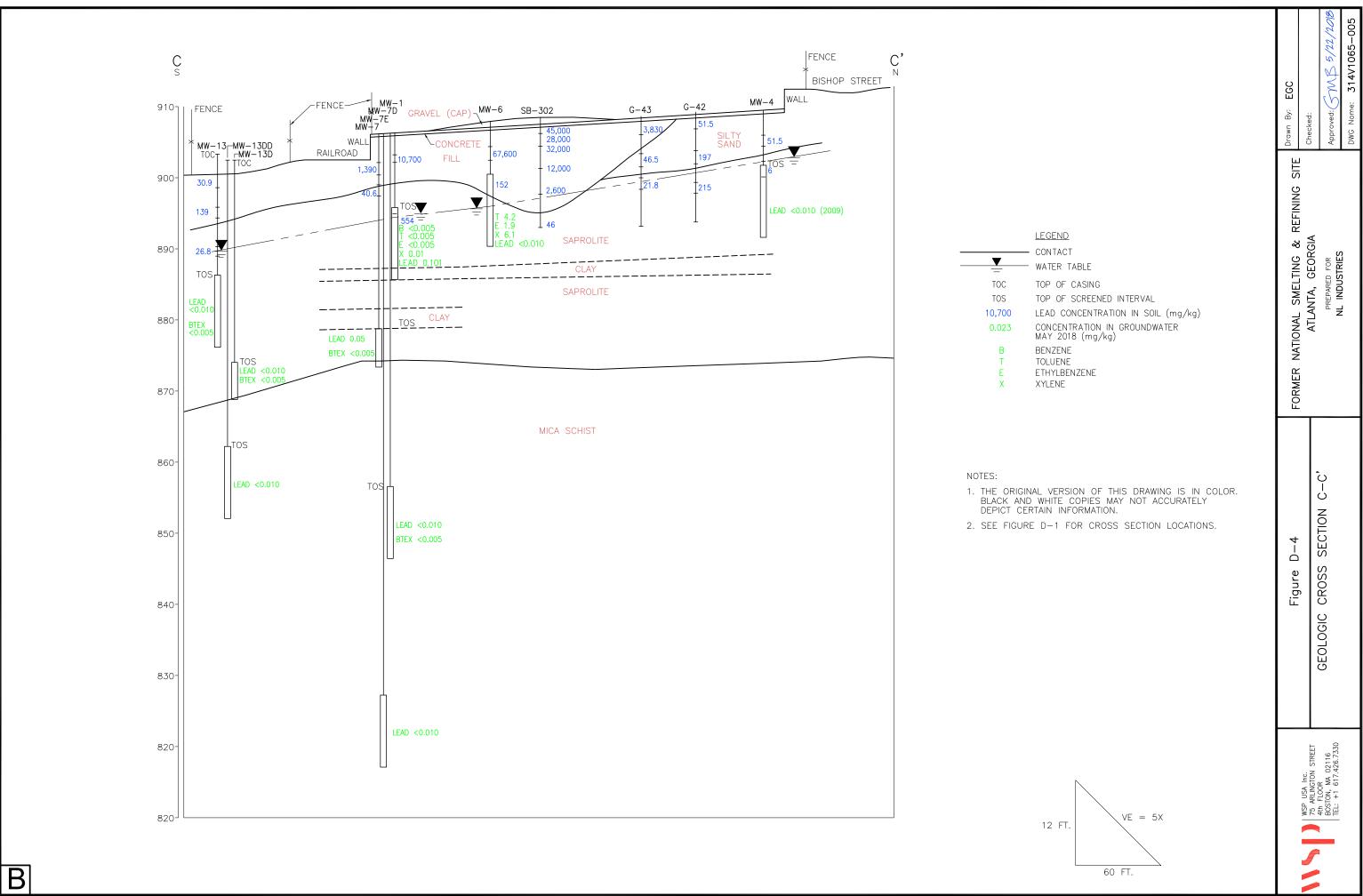


FENCE В B' S Ν EGC BISHOP AXS-4 G-1 MW-5 STREET 915 — G-3AXS-68,400 SITE 14,700 1,270 AXS-16 ASPHALT -FORMER NATIONAL SMELTING & REFINING ATLANTA, GEORGIA FENCE G-7 AXS-7 ,270 AXS-17 1,840 910 -SILTY & PREPARED FOR NL INDUSTRIES CLAYEY SAND 120,000 133 CLAY 351 330 SILTY/SANDY FILL 905 857 SLAG 6,960 703 124,000 900 — CLAY 'n CLOTH **BRICK** ю SECTION SAPROLITE $\dot{\Box}$ < 0.010 CROSS 895 Figure GEOLOGIC 890 **LEGEND** P USA Inc.
ARLINGTON STREET
FLOOR
STON, MA 02116
.: +1 617.426.7330 CONTACT WATER TABLE 2018 NOTES: TOS TOP OF SCREENED INTERVAL VE = 10X THE ORIGINAL VERSION OF THIS DRAWING IS IN COLOR. BLACK AND WHITE COPIES MAY NOT ACCURATELY DEPICT CERTAIN INFORMATION. WSP 75 / 4th BOSI TEL: 124,000 LEAD CONCENTRATION IN SOIL (mg/kg) 4 FT. LEAD CONCENTRATION IN GROUNDWATER MAY 2018 (mg/kg) <0.010

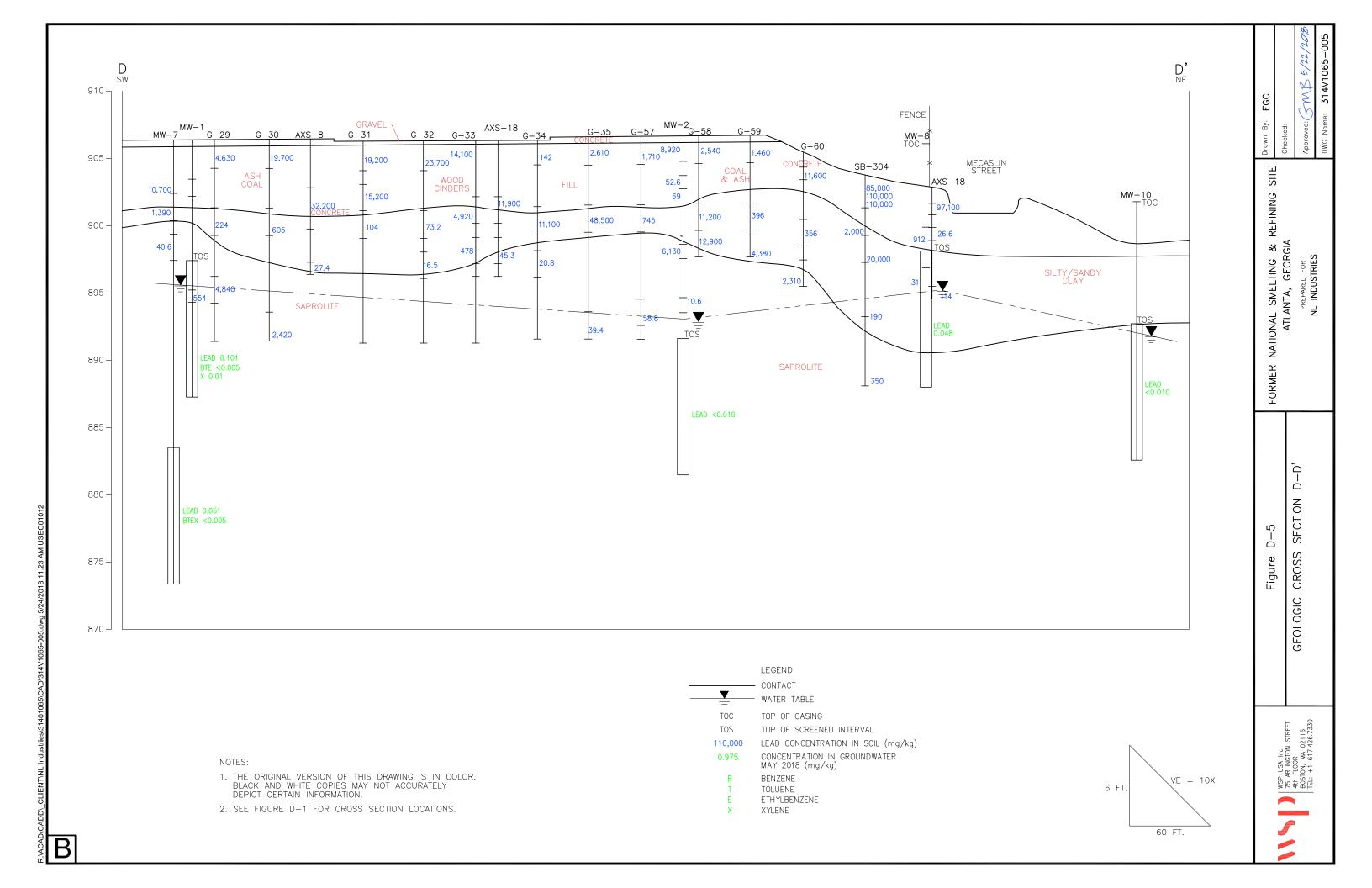
40 FT.

В

2. SEE FIGURE D-1 FOR CROSS SECTION LOCATIONS.



DICADDI_CLIENTINL Industries\31401065\CAD\314V1065-005.dwg 5/24/2018 11:26 AM USECO



APPENDIX

LABORATORY ANALYTICAL REPORTS

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.

John Reynolds Project Manager

January 30, 2003

ANALYTICAL METHODS SUMMARY

H3A140175

PARAMETER	ANALYTICAL METHOD
Percent Moisture Trace Inductively Coupled Plasma (ICP) Metals	MCAWW 160.3 MOD SW846 6010B
Peferenges.	

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

			SAMPLED	SAMP
WO #	SAMPLE#	CLIENT SAMPLE ID	DATE	TIME
•				
FF24C	001	HA-2-25(0-0.5)	01/10/03	
FF24K	002	HA-3-15(1.0-1.5)	01/10/03	
FF24M	003	HA-3-15(1.5-2.0)	01/10/03	
FF24N	004	HA-4-10(0-0.5)	01/10/03	
FF24P	005	HA-5-15(0.5-1.0)	01/10/03	
FF24Q	006	HA-5-15(1-1.5)	01/10/03	17:05
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	17:15
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	11:25
FF249	013	LAT-2-1(0.5-1)	01/10/03	13:00
FF25A	014	EB-01-10-03	01/10/03	20:80
FF25C	015	MW-1	01/11/03	10:05
FF25R	016	MW-2	01/11/03	09:15
FF25V	017	MW-2(1-2)	01/10/03	
FF25W	018	MW-2 (3-4)	01/10/03	08:30
FF250	019	MW-2(8-9)	01/10/03	08:45
F251	020	MW-2(12-13)	01/10/03	
FF252	021	HA-0-15(1.0-1.5)	01/10/03	
FF254	022	HA-1-10(0-0.5)	01/10/03	09:30
FF257	023	HA-1-10(1-1.5)	01/10/03	
FF259	024	HA-1-30(0-0.5)	01/10/03	
FF26E	025	HA-1-30(1.0-1.5)	01/10/03	
FF26G	026	HA-2-10(0-0.5)	01/10/03	
FF26H	027	LAT-2-1(1-1.5)	01/10/03	
FF26K	028	LAT-2-2(0.5-1)	01/10/03	
FF26M	029	LAT-2-2(1-1.5)	01/10/03	
FF26Q	030	LAT-2-3 (0.5-1)	01/10/03	
FF26T	031	LAT-2-3 (1-1.5)	01/10/03	
FF26X	032	LAT-3-1(0-0.5)	01/10/03	
FF263	033	LAT-3-1(1-1.5)	01/10/03	
FF266	034	LAT-3-2(0.5-1.0)	01/10/03	
FF40N	035	MW-1	01/11/03	
FF40Q	036	MW-2	01/11/03	
			,,	

(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

SAMP

DATE

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

Date Sampled...: 01/10/03

Date Received..: 01/14/03 ·

% Moisture....: 30

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

ENVIRONMENTAL STRATEGIES CORPORATION

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

TOTAL Metals

Lot-Sample #...: H3A140175-002

Date Sampled...: 01/10/03

Date Received..: 01/14/03

% Moisture....: 27

		REPORTIN	1G ·		PREPARATION-	WORK
PARAMETER	RESULT	LIMIT	UNITS	METHOD	ANALYSIS DATE	ORDER #
Data Batala H.	2000115					
Prep Batch #.					/ //	
Arsenic	945	1.4	mg/kg	SW846 6010B	01/22-01/26/03	FF24KLAC
		Dilution Fac	tor: 1	Analysis Time: 17:5	1	
Cadmium	3.0	0.68	mg/kg	SW846 6010B	01/22-01/26/03	FF24K1AD
Cumit mi	3.0	Dilution Fac		Analysis Time: 17:5	0.00	, , , , , , , , , , , , , , , , , , ,
		Diruction Fac	cor: 1	Analysis Time: 17:5	1)	
Lead	211000	204	mg/kg	SW846 6010B	01/22-01/26/03	FF24KLAB
		Dilution Fac		Analysis Time: 16:4:	2	
				indayono namorii navi.	.	
Antimony	5370	8.2	mg/kg	SW846 6010B	01/22-01/26/03	FF24K1AF
		Dilution Fac	tor: 1	Analysis Time: 17:58	3	
Thallium	5.5	1.4	mg/kg	SW846 6010B	01/22-01/26/03	FF24K1AG
		Dilution Fac	tor: 1	Analysis Time: 17:58	3	
	**					

Results and reporting limits have been adjusted for dry weight.

NOTE(S):

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

% Moisture....: 24

PARAMETER	RESULT	REPORTING . LIMIT UNI	TS METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #	: 3022115				
Arsenic	353	1.3 mg/	kg SW846 6010B	01/22-01/26/03	FF24MLAC
		Dilution Factor: 1	Analysis Time: 18:0	3	
Cadmium	3.7	0.66 mg/	kg SW846 6010B	01/22-01/26/03	FF24M1AD
		Dilution Factor: 1	Analysis Time: 18:0		112111111
Lead	102000	79.2 mg/	kg SW846 6010B	01/22-01/26/03	PPOAKI NP
	102000	Dilution Factor: 20		5 A S	FFZ4FILAG
Antimony	2330	7.9 mg/	cg SW846 6010B	01/22-01/26/03	FF24Mlaf
	2	Dilution Factor: 1	Analysis Time: 18:0	3	
Thallium	3.0	1.3 mg/l	cq SW846 6010B	01/22-01/26/03	FF24M1AG
		Dilution Factor: 1	Analysis Time: 18:03	i. (4)	
NOTE(S):	E				

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

% Moisture....: 21

				•	
		, G	8	PREPARATION-	WORK
RESULT	LIMIT	UNITS	METHOD	ANALYSIS DATE	ORDER #
: 3017307					
317	1.3	mg/kg	SW846 6010B	01/22-01/28/03	FF24N1AC
	Dilution Fact	or: 1	Analysis Time: 20:49		
3.2	0.63	mg/kg	SW846 6010B	01/22-01/28/03	FF24NLAD
	Dilution Fact		Analysis Time: 20:49	48462***********************************	
77600	38.0	mq/kq	SW846 6010B	01/22-01/28/03	FF24N1AE
	Dilution Fact	2017 850 BEE	Analysis Time: 16:32	2	
2820	760	mg/kg	SW846 6010B	01/22-01/28/03	FF24N1AF
	Dilution Fact		Analysis Time: 16:32	100 march 100 ma	
3.5	1.3	mg/kg	SW846 6010B	01/22-01/28/03	FF24N1AG
			Analysis Time: 20:49	1)	
	3.2 77600 2820	### RESULT LIMIT : 3017307 317 1.3 Dilution Fact 3.2 0.63 Dilution Fact 77600 38.0 Dilution Fact 2820 760 Dilution Fact 3.5 1.3	.:: 3017307 317 1.3 mg/kg Dilution Factor: 1 3.2 0.63 mg/kg Dilution Factor: 1 77600 38.0 mg/kg Dilution Factor: 100 2820 760 mg/kg Dilution Factor: 100	### RESULT LIMIT UNITS METHOD : 3017307 317	### RESULT LIMIT UNITS METHOD ANALYSIS DATE : 3017307 317

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

% Moisture....: 27

		REPORTING .		PREPARATION- WORK
PARAMETER	RESULT	LIMIT UNITS	METHOD	ANALYSIS DATE 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	
MOTE(S):				

ENVIRONMENTAL STRATEGIES CORPORATION

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

TOTAL Metals

Lot-Sample #...: H3A140175-006

Date Sampled...: 01/10/03

Date Received..: 01/14/03

% Moisture....: 29

		REPORTING	g,			PREPARATION-	WORK
PARAMETER	RESULT	LIMIT	UNITS	METHOD		ANALYSIS DATE	ORDER #
D D-1-1-1	2000115			*			
Prep Batch #	.: 3022115		-			6.	
Arsenic	31.8	1.4	mg/kg	SW846 601	L 0 B	01/22-01/26/03	FF24Q1AC
		Dilution Fact	or: 1	Analysis Time	e: 16:51		
120 SET			•			2 (2)	
Cadmium	4.1	0.71	mg/kg	SW846 601	LOB	01/22-01/26/03	FF24QLAD
		Dilution Fact	or: 1	Analysis Time	e: 16:51		
					// Wash Chair (#		
Lead	703	0.42	mg/kg	SW846 601	.0B	01/22-01/26/03	FF24Q1AE
		Dilution Fact	or: 1	Analysis Time	e: 16:51		
Antimone	ND	8.5	ma /1.a	CM046 601	ΔD.	01/22-01/26/03	PP24013P
Antimony	ND	20 11 324	mg/kg	SW846 601	A DECEMBER	01/22-01/26/03	FFZ4QIAF
		Dilution Fact	or: 1	Analysis Time	e: 16:51		
Thallium	ND	1.4	ma /2-a	SW846 601	OB	01/22-01/26/03	EE24017C
Inallium	מא		mg/kg			01/22-01/26/03	FFZ4QIAG
		Dilution Fact	or: 1	Analysis Time	e: 16:51		
MOTE(S):							
10.10/0/						*	

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

% Moisture....: 20

		REPORTIN	G ·		PREPARATION-	WORK
PARAMETER	RESULT	LIMIT	UNITS	METHOD	ANALYSIS DATE	ORDER #
Prep Batch #.	: 3022115					
Arsenic	15.0	1.3	mg/kg	SW846 6010B	01/22-01/26/03	FF24R1AC
		Dilution Fact	tor: 1	Analysis Time: 16:55		
Cadmium	2.6	0.63	mg/kg	SW846 6010B	01/22-01/26/03	FF24R1AD
		Dilution Fact	tor: 1	Analysis Time: 16:55		
Lead	544	0.38	mg/kg	SW846 6010B	01/22-01/26/03	FF24R1AE
		Dilution Fact	tor: 1	Analysis Time: 16:55		
SANCON AND SO BY SOUTH SPECIAL PLANT	(000mm) (0000	VVI.000 100mm				
Antimony	ND	7.5	mg/kg	SW846 6010B	01/22-01/26/03	FF24R1AF
		Dilution Fact	cor: 1	Analysis Time: 16:55		
		8 2	174		/ / /	
Thallium	. ND	1.3	mg/kg	SW846 6010B	01/22-01/26/03	FF24R1AG
		Dilution Fact	cor: 1	Analysis Time: 16:55		
MOTE(S):						

ENVIRONMENTAL STRATEGIES CORPORATION

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

TOTAL Metals

Lot-Sample #...: H3A140175-008

Date Sampled...: 01/10/03

Date Received..: 01/14/03

% Moisture....: 6.2

		REPORTING				PREPARATION-	WORK
PARAMETER	RESULT	LIMIT	UNITS	METHO		ANALYSIS DATE	ORDER #
Prep Batch #	.: 3022115					€ 2	
Arsenic	8.6	1.1	mg/kg	SW846	6010B	01/22-01/26/03	FF24T1AC
		Dilution Facto	or: 1	Analysis	Time: 17:04		
Cadmium	2.3	0.53	mg/kg	CMOVE	6010B	01/22-01/26/03	ድድ2 <i>ል</i> ሞ1 ልከ
Cadiii uii	67-030- 7 4					01/22-01/20/03	FFZ4IIAD
		Dilution Facto	or: 1	Analysis	Time: 17:04		
Lead	145	0.32	mg/kg	SW846	6010B	01/22-01/26/03	FF24T1AB
		Dilution Facto	or: 1	Analysis	Time: 17:04		N
- or or or or the trip environ business	(a					07/00 07/06/03	DD0 4 D 1 7 7
Antimony	ND	6.4	mg/kg		6010B	01/22-01/26/03	FF24TTAF
		Dilution Facto	or: 1	Analysis	Time: 17:04		
Thallium	ND	1.1	mg/kg	SW846	6010B	01/22-01/26/03	FF24T1AG
		Dilution Facto		Analysis	Time: 17:04		
NOTE(S):							

ENVIRONMENTAL STRATEGIES CORPORATION

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

TOTAL Metals

Lot-Sample #...: H3A140175-009

Date Sampled...: 01/10/03

Date Received..: 01/14/03

% Moisture....: 33

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHO	D .	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #	.: 3022115						
Arsenic	49.0	1.5	mg/kg	SW846	6010B	01/22-01/26/03	FF24V1AC
		Dilution Facto	or: 1	Analysis	Time: 18:12		
Cadmium	13.4	0.75	mar/1-a	CHO 4 C	C010D	27 /22 27 /26/27	
Cadinian		Dilution Facto	mg/kg	700 NO. 100 NO	6010B	01/22-01/26/03	FF24VIAD
		Dilucion Facto	T: I	Analysis	Time: 18:12		
Lead	18300	45.0	mg/kg	SW846	6010B	01/22-01/26/03	FF24V1AE
	ž.	Dilution Facto	r: 100	Analysis	Time: 17:00		
	_ =						
Antimony	147	9.0	mg/kg		6010B	01/22-01/26/03	FF24V1AF
		Dilution Facto	r: 1	Analysis	Time: 18:12		
Thallium	ND	1.5	mg/kg	SW846	6010B	01/22-01/26/03	FF24V1AG
	Conserved page	Dilution Facto	0.000 0.000		Time: 18:12	02,22 02,20,00	110171110
NOTE (S):						. S	

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

% Moisture....: 45

		REPORTIN	IG ·			PREPARATION-	WORK
PARAMETER	RESULT	LIMIT	UNITS	METHOD		ANALYSIS DATE	ORDER #
D							
Prep Batch #.	: 3022115						
Arsenic	136	1.8	mg/kg	SW846 6010B		01/22-01/26/03	FF2401AC
		Dilution Fac	tor: 1	Analysis Time:	18:16		
a	24.0	0.00	/1	0770.4.5 .507.00		25 /22 25 /25/22	
Cadmium	34.2	0.92	mg/kg	SW846 6010B		01/22-01/26/03	FF2401AD
		Dilution Fac	tor: 1	Analysis Time:	18:16		
Lead	33000	55.0	mg/kg	SW846 6010B		01/22-01/26/03	FF2401 AF
2000	33000	NAME OF TAXABLE PARTY.	3300000				ILLIOIM
¥		Dilution Fac	tor: 100	Analysis Time:	17:31		
Antimony	195	11.0	mg/kg	SW846 6010B		01/22-01/26/03	FF2401AF
-		Dilution Fac	100 D-100 TOO	Analysis Time:	10.16		
		DITUCION FAC	cor. I	Anarysis lime	10.10		
Thallium	2.5	1.8	mg/kg	SW846 6010B		01/22-01/26/03	FF2401AG
		Dilution Fac	tor: 1	Analysis Time:	18:16		
NOTE (S):	¥						

ENVIRONMENTAL STRATEGIES CORPORATION

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

TOTAL Metals

Lot-Sample #...: H3A140175-011

Date Sampled...: 01/10/03

Date Received..: 01/14/03

% Moisture....: 55

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOL)	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #	.: 3022115						
Arsenic	77.1	2.2	mg/kg	SW846	6010B	01/22-01/26/03	FF2421AC
		Dilution Facto	r: 1	Analysis	Time: 18:21		
Cadmium	72.4	1.1	mg/kg	SW846	6010B	01/22-01/26/03	FF2421AD
	3 - 2 - 7	Dilution Facto	10 mm 1,700 10 mm 1	Analysis	Time: 18:21	*	
Lead	25300	66.2	mg/kg	SW846	6010B	01/22-01/26/03	FF2421AE
		Dilution Facto	r: 100	Analysis	Time: 17:40		
Antimony	150	13.2	mg/kg	SW846	6010B	01/22-01/26/03	FF2421AF
		Dilution Facto	3 TO 10 10 10 10 10 10 10 10 10 10 10 10 10	Analysis	Time: 18:21		
Thallium	2.4	2.2	mg/kg	SW846	6010B	01/22-01/26/03	FF2421AG
	90 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	Dilution Facto		Analysis	Time: 18:21	#1 W NOTE 29	
NOTE(S):							

ENVIRONMENTAL STRATEGIES CORPORATION

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

TOTAL Metals

Lot-Sample #...: H3A140175-012

Date Sampled...: 01/10/03

Date Received..: 01/14/03

% Moisture....: 25

PARAMETER	RESULT	REPORTING LIMIT	G. UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch # Arsenic	: 3022115 4.4	1.3 Dilution Fact	mg/kg	SW846 6010B Analysis Time: 17:36	01/22-01/26/03	FF2451AC
Cadmium	2.8	0.67 Dilution Fact	mg/kg	SW846 6010B Analysis Time: 17:36	01/22-01/26/03	FF245LAD
Lead	249	0.40 Dilution Fact	mg/kg	SW846 6010B Analysis Time: 17:36	01/22-01/26/03	FF2451AE
Antimony	8.5	8.0 Dilution Fact	mg/kg	SW846 6010B Analysis Time: 17:36	01/22-01/26/03	FF2451AF
Thallium	ND	1.3 Dilution Fact	mg/kg	SW846 6010B Analysis Time: 17:36	01/22-01/26/03	FF2451AG
NOTE (S) :						

ENVIRONMENTAL STRATEGIES CORPORATION

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

TOTAL Metals

Lot-Sample #...: H3A140175-013

Date Sampled...: 01/10/03

Date Received..: 01/14/03

% Moisture....: 41

PARAMETER	RESULT	REPORTIN LIMIT	IG . UNITS	METHOD		PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #	.: 3022115						
Arsenic	179	1.7	mg/kg	SW846 6010B	6	01/22-01/26/03	FF2491AC
		Dilution Fac	100	Analysis Time	: 18:25		
Cadmium	11.9	0.85	mg/kg	SW846 6010B	.	01/22-01/26/03	FF2491AD
		Dilution Fac		Analysis Time		0=,== 0=,=0,00	
Lead	46300	51.2	mg/kg	SW846 6010B		01/22-01/26/03	FF2491 AF
nead	40200	Dilution Fac		Analysis Time		01/22 01/20/03	1121711111
-	0.07	10.0		GW046 6010D		07/22 01/26/02	DD04013B
Antimony	297	10.2	mg/kg	SW846 6010B		01/22-01/26/03	FF2491AF
		Dilution Fac	tor: 1	Analysis Time	: 18:25		
Thallium	2.4	1.7	mg/kg	SW846 6010B	2.	01/22-01/26/03	FF2491AG
		Dilution Fac	tor: 1	Analysis Time	: 18:25		
NOTE(S):						10.70	

Matrix....: WATER

01/22-01/24/03 FF25A1AF

ENVIRONMENTAL STRATEGIES CORPORATION

Client Sample ID: EB-01-10-03

TOTAL Metals

Lot-Sample #...: H3A140175-014

ND

ND

60.0

10.0

Dilution Factor: 1

Dilution Factor: 1

Antimony

Thallium

Date Received..: 01/14/03

Date Sampled...: 01/10/03 PREPARATION-WORK REPORTING METHOD ANALYSIS DATE ORDER # PARAMETER LIMIT UNITS RESULT Prep Batch #...: 3022130 Arsenic 10.0 ug/L SW846 6010B 01/22-01/24/03 FF25A1AA Analysis Time..: 19:46 Dilution Factor: 1 01/22-01/24/03 FF25A1AC SW846 6010B Cadmium ND 5.0 ug/L Analysis Time..: 19:46 Dilution Factor: 1 ug/L SW846 6010B 01/22-01/24/03 FF25A1AD 422 3.0 Lead Dilution Factor: 1 Analysis Time..: 19:46 01/22-01/24/03 FF25A1AE

ug/L

ug/L

SW846 6010B

SW846 6010B

Analysis Time..: 19:46

Analysis Time..: 19:46

ENVIRONMENTAL STRATEGIES CORPORATION

Client Sample ID: MW-1

TOTAL Metals

Lot-Sample #...: H3A140175-015
Date Sampled...: 01/11/03

Matrix....: WATER

Date Sampled	: 01/11/03	Date Re	eceived:	01/14/0	03		
PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOI	י כ	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #	: 3022130						
Arsenic	ND	10.0	ug/L	SW846	6010B	01/22-01/24/03	FF25C1AA
		Dilution Factor	r: 1	Analysis	Time: 19:51		
Cadmium	9.0	5.0 Dilution Factor	ug/L r: 1 ;	0.500000056 Telephone	6010B Time: 19:51	01/22-01/24/03	FF25C1AC
Lead	44.9	3.0 Dilution Factor	ug/L		6010B Time: 19:51	01/22-01/24/03	FF25C1AD
Antimony	ND	60.0 Dilution Factor	ug/L		6010B Time: 19:51	01/22-01/24/03	FF25C1AE
Thallium	ND	10.0 Dilution Factor	ug/L :: 1	SW846 Analysis	6010B Time: 19:51	01/22-01/24/03	FF25C1AF

ENVIRONMENTAL STRATEGIES CORPORATION

Client Sample ID: MW-2

TOTAL Metals

Lot-Sample #...: H3A140175-016

Matrix..... WATER Date Sampled...: 01/11/03 Date Received..: 01/14/03 REPORTING PREPARATION-WORK PARAMETER METHOD RESULT LIMIT UNITS ANALYSIS DATE ORDER # Prep Batch #...: 3022130 Arsenic ND 10.0 uq/L SW846 6010B 01/22-01/24/03 FF25R1AA Dilution Factor: 1 Analysis Time..: 19:55 Cadmium 15.8 5.0 uq/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 SW846 6010B 01/22-01/24/03 FF25R1AF ND 10.0 ug/L

Dilution Factor: 1

Analysis Time..: 19:55

ENVIRONMENTAL STRATEGIES CORPORATION

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

TOTAL Metals

Lot-Sample #...: H3A140175-017 Matrix.....: SOLID

Date Sampled...: 01/10/03 Date Received..: 01/14/03

% Moisture....: 20

		REPORTING	G.			PREPARATION-	WORK
PARAMETER	RESULT	LIMIT	UNITS	METHOD		ANALYSIS DATE	ORDER #
Prep Batch #.	. 3022115						
Arsenic	73.7	1.2	mg/kg	SW846 6	010B	01/22-01/26/03	FF25V1AC
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Dilution Fact			ime: 18:30		
Cadmium	5.3	0.62	mg/kg	SW846 6	010B	01/22-01/26/03	FF25V1AD
Cacinitani	3.3	Dilution Fact	CONTRACTOR PROPERTY.		ime: 18:30	01,11 01,10,00	
Lead	8920	3.7	mg/kg	SW846 6	010B	01/22-01/26/03	FF25V1AE
ICUG.	0320	Dilution Fact	55.00 Sec.		ime: 17:22	02,22 02,20,00	
Antimony	252	7.5	mg/kg	SW846 6	010B	01/22-01/26/03	FF25V1AF
Parelinorry	232	Dilution Fact	1000001		ime: 18:30	02, 22 02, 20, 00	
Thallium	ND	1.2	mg/kg	SW846 60	010B	01/22-01/26/03	FF25V1AG
	1412	Dilution Fact			ime: 18:30	0=,== 0=,20,00	
				_			
NOTE(S):							

ENVIRONMENTAL STRATEGIES CORPORATION

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

TOTAL Metals

Lot-Sample #...: H3A140175-018

Date Sampled...: 01/10/03

Date Received..: 01/14/03

% Moisture....: 22

		DDDODET					****
		REPORTIN	200 Co. Sept.		2290	PREPARATION-	WORK
PARAMETER	RESULT	LIMIT	UNITS	METHO:	D	ANALYSIS DATE	ORDER #
T							
Prep Batch #.						9 19 0.9	
Arsenic	2.1	1.3	mg/kg	SW846	6010B	01/22-01/26/03	FF25W1AC
ā a a a a a a a a a a a a a a a a a a a		Dilution Fac	tor: 1	Analysis	Time: 17:45		
Cadmium	0.71	0.64	mg/kg	SW846	6010B	01/22-01/26/03	FF25WLAD
		Dilution Fac	500 (S) (S)	9819 93	Time: 17:45		
Lead	52.6	0.38	mg/kg	SW846	6010B	01/22-01/26/03	FF25W1 AF
	32.0	Dilution Fac	DOMESTIC STREET		Time: 17:45	01/22 01/20/03	112511211
Antimony	ND	7.6	mg/kg	SW846	6010B	01/22-01/26/03	FF25W1 AF
THICK INDITY	110	Dilution Fac			Time: 17:45	01/22 01/20/03	II DUNLIII
Thallium	ND	1.3	mg/kg	SM846	6010B	01/22-01/26/03	FF25W1AG
THATTIAM	ND o	Dilution Fac	J. J		Time: 17:45	01/22 01/20/03	1125#1140
NOTE (S):							

ENVIRONMENTAL STRATEGIES CORPORATION

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

TOTAL Metals

Lot-Sample #...: H3A140175-019

Date Sampled...: 01/10/03

Date Received..: 01/14/03

% Moisture....: 23

		REPORTIN	ig .		PREPARATION-	WORK
PARAMETER	RESULT	LIMIT	UNITS	METHOD	ANALYSIS DATE	ORDER #
Prep Batch #.	: 3022115					
Arsenic	54.6	1.3	mg/kg	SW846 6010B	01/22-01/26/03	FF2501AC
		Dilution Fac	tor: 1	Analysis Time: 18:3	4	
Cadmium	1.7	0.65	mg/kg	SW846 6010B	01/22-01/26/03	FF2501AD
		Dilution Fac	(101 amilia) (amilia)	Analysis Time: 18:3	255 257 259	
Lead	6130	3.9	mg/kg	SW846 6010B	01/22-01/26/03	FF2501AF
Deau	0130	Dilution Fac		Analysis Time: 17:1	THE STATE OF THE S	112502240
		Dilucion Fac	COI: 10	Andrysis Time 17:1	ь	
Antimony	170	7.8	mg/kg	SW846 6010B	01/22-01/26/03	FF2501AF
		Dilution Fac	tor: 1	Analysis Time: 18:3	4	
Thallium	ND	1.3	mg/kg	SW846 6010B	01/22-01/26/03	FF2501AG
		Dilution Fac		Analysis Time: 18:3	4	
NOTE (S):	2.	8	0 -			

ENVIRONMENTAL STRATEGIES CORPORATION

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

TOTAL Metals

Lot-Sample #...: H3A140175-020

Date Sampled...: 01/10/03

Date Received..: 01/14/03

% Moisture....: 32

		REPORTIN	īG.		PREPARATION-	WORK
PARAMETER	RESULT	LIMIT	UNITS	METHOD	ANALYSIS DATE	ORDER #
					*	
Prep Batch #.	: 3017307	(20)				
Arsenic	ND	1.5	mg/kg	SW846 6010B	01/22-01/28/03	FF2511AC
		Dilution Fac	tor: 1	Analysis Time: 16:5	0	
Cadmium	1.4	0.73	mg/kg	SW846 6010B	01/22-01/28/03	FF2511AD
	65)	Dilution Fac	100 (0) (000 (0) (0) (0) (0) (0) (0) (0)	Analysis Time: 16:5		
Lead	10.6	0.44	mg/kg	SW846 6010B	01/22-01/28/03	FF2511AR
Licut	20.0	Dilution Fac	000AP1 - 000 PRODUCTOR	Analysis Time: 16:5	as somes 7: feet, see #1	
70 cm der 2 cm marson	1170		mar /1rar	SW846 6010B	01/22-01/28/03	EE25117E
Antimony	ND	8.8	mg/kg			FFZSTIAF
		Dilution Fac	tor: 1	Analysis Time: 16:5	0	
Thallium	ND	1.5	mg/kg	SW846 6010B	01/22-01/28/03	FF2511AG
		Dilution Fac	tor: 1	Analysis Time: 16:5	0	
NOTE(S):						

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

% Moisture....: 24

PARAMETER	RESULT	REPORTI	NG . UNITS	METHO	D	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #.	: 3017307						
Arsenic	60.6	1.3	mg/kg	SW846	6010B	01/22-01/28/03	FF2521AC
	3	Dilution Fac	ctor: 1	Analysis	Time: 20:53		
Cadmium	3.4	0.66	mg/kg	SW846	6010B	01/22-01/28/03	FF2521AD
		Dilution Fac	tor: 1	Analysis	Time: 20:53	•	
Lead	9850	4.0	mg/kg	SW846	6010B	01/22-01/28/03	FF2521AE
		Dilution Fac	tor: 10	Analysis	Time: 16:41		
Antimony	152	7.9	mg/kg	SW846	6010B	01/22-01/28/03	FF2521AF
		Dilution Fac	1000000	Analysis	Time: 20:53		
Thallium	ND	1.3	mg/kg	SW846	6010B	01/22-01/28/03	FF2521 AC
		Dilution Fac			Time: 20:53	01/22 01/20/03	ITZJZING
MOTE (S) :			er e		40		

ENVIRONMENTAL STRATEGIES CORPORATION

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

TOTAL Metals

Lot-Sample #...: H3A140175-022

Date Sampled...: 01/10/03

Date Received..: 01/14/03

% Moisture....: 29

	10/E-12F-12F-1					
		REPORTIN	IG .		PREPARATION-	WORK
PARAMETER	RESULT	LIMIT	UNITS	METHOD	ANALYSIS DATE	ORDER #
						*
Prep Batch #.	: 3017307					
Arsenic	108	1.4	mg/kg	SW846 6010B	01/22-01/28/03	FF2541AC
		Dilution Fac	tor: 1	Analysis Time: 20:5	8	
Cadmium	6.4	0.70	mg/kg	SW846 6010B	01/22-01/28/03	FF2541AD
		Dilution Fac	2000 C	Analysis Time: 20:5	N 152 N	
		×			# 12 P	
Lead	26500	42.0	mg/kg	SW846 6010B	01/22-01/28/03	FF2541AB
		Dilution Fac	tor: 100	Analysis Time: 16:4	6	
Antimony	363	8.4	mg/kg	SW846 6010B	01/22-01/28/03	FF2541AF
		Dilution Fac	1000	Analysis Time: 20:5	500	
Thallium	1.9	1.4	mg/kg	SW846 6010B	01/22-01/28/03	FF2541AG
		Dilution Fac	tor: 1	Analysis Time: 20:5	8	
8	8					
MOTE(S):	· · · · · · · · · · · · · · · · · · ·	. Marin Colonia Coloni		3		

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

% Moisture....: 22

1,10220022011							
		REPORTIN	īG .	METHOD		PREPARATION- ANALYSIS DATE	WORK ORDER #
PARAMETER	RESULT	LIMIT	UNITS				
Prep Batch #.	: 3017307						
Arsenic	10.2	1.3	mg/kg	SW846 6010	В	01/22-01/28/03	FF257LAC
		Dilution Fac	tor: 1	Analysis Time.	.: 21:02		
Cadmium	1.3	0.64	mg/kg	SW846 6010	В	01/22-01/28/03	FF2571AD
		Dilution Fac	tor: 1	Analysis Time.	.: 21:02		
Lead	7380	3.8	mg/kg	SW846 6010	· B	01/22-01/28/03	FF2571AE
		Dilution Fac	tor: 10	Analysis Time.	.: 17:04		
Antimony	263	7.7	mg/kg	SW846 6010	В	01/22-01/28/03	FF2571AF
-		Dilution Fac	tor: 1	Analysis Time.	.: 21:02		
Thallium	1.3	1.3	mg/kg	SW846 6010	В	01/22-01/28/03	FF2571AG
		Dilution Fac	1000 A	Analysis Time.	.: 21:02		
NOTE(S):				2		900 d. 100	

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

% Moisture....: 28

		REPORTI	١G ،			PREPARATION-	WORK
PARAMETER	RESULT	LIMIT	UNITS	METHOD		ANALYSIS DATE	ORDER #
Prep Batch #	: 3017307						
Arsenic	29.8	1.4	mg/kg	SW846	6010B	01/22-01/28/03	FF2591A0
		Dilution Fac	tor: 1	Analysis	Time: 21:07	•	
Cadmium	8.2	0.69	mg/kg	SW846	6010B	01/22-01/28/03	FF2591AI
		Dilution Fac	(1 	Analysis Time: 21:07			
Lead	6990	4.1	mg/kg	SW846	6010B	01/22-01/28/03	FF2591AE
		Dilution Fac		Analysis	Time: 17:08	Sergial of Applications and the service of the serv	
Antimony	226	8.3	mg/kg	SW846	6010B	01/22-01/28/03	FF2591AE
		Dilution Fac	STATE OF THE PARTY	Analysis	Time: 21:07		
Thallium	ND	1.4	mg/kg	SW846	6010B	01/22-01/28/03	FF2591AG
3 • • 1 • 1 • 1 • • 1 • • 1 • • 1 • • 1 • • 1 • • 1 • • 1 • • 1 • • 1 • • 1 • 1 • • 1 • • 1 • • 1 • • 1 • • 1 • • 1 • • 1 • • 1 • • 1 • • 1 • 1 • • 1 • • 1 • • 1 • • 1 • • 1 • • 1 • • 1 • • 1 • • 1 • • 1 • 1 • • 1 • • 1 • • 1 • • 1 • • 1 • • 1 • • 1 • • 1 • • 1 • • 1 • 1 • • 1 • 1 • • 1 •		Dilution Fac		WORLD CONTROL CONTROL	Time: 21:07	nonce dans synte mode dans	ano - en (2000), (1) (1) (1) (2) (1) (1)
MOTE (S):							

ENVIRONMENTAL STRATEGIES CORPORATION

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

TOTAL Metals

Lot-Sample #...: H3A140175-025

Date Sampled...: 01/10/03

Date Received..: 01/14/03

% Moisture....: 20

		REPORTI	NG .			PREPARATION-	WORK
PARAMETER	RESULT	LIMIT	UNITS	METHOD		ANALYSIS DATE	ORDER #
Prep Batch #						THE STATE OF THE S	The same of the same of the same same same same same same same sam
Arsenic	25.1	1.3	mg/kg	SW846 6	010B	01/22-01/28/03	FF26E1AC
		Dilution Fac	ctor: 1	Analysis Ti	ime: 21:11		
Cadmium	5.8	0.63	mg/kg	SW846 60	010B	01/22-01/28/03	FF26E1AD
		Dilution Fac	100000 - 10000 - 10000 - 10000 - 10000 - 10000 - 10000 - 10000 - 10000 - 10000 - 10000 - 10000 - 10000 - 10000	Analysis Ti	ime: 21:11	Containing Processing Containing Processing State Containing Conta	
Lead	3390	3.8	mg/kg	SW846 60	010B	01/22-01/28/03	FF26ELAB
		Dilution Fac			ime: 17:13		
Antimony	33.9	7.5	mg/kg	SW846 60	01.0B	01/22-01/28/03	FF26ELAF
	55.5	Dilution Fac	an amount man		ime: 21:11		
Thallium	1.3	1.3	mg/kg	SW846 60	010B	01/22-01/28/03	FF26E1AG
	*	Dilution Fac		11	lme: 21:11	Section Commission Section Commission Commission	
NOTE (S):							

ENVIRONMENTAL STRATEGIES CORPORATION

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

TOTAL Metals

Lot-Sample #...: H3A140175-026 Matrix....: SOLID

Date Sampled...: 01/10/03 Date Received..: 01/14/03

% Moisture....: 23

¥		REPORTII	NG.	* y**	PREPARATION-	WORK
PARAMETER	RESULT	LIMIT	UNITS'	METHOD	ANALYSIS DATE	ORDER #
Prep Batch #	• 3017307					
Arsenic	435	1.3	mg/kg	SW846 6010B	01/22-01/28/03	FF26G1AC
		Dilution Fac	ctor: 1	Analysis Time: 21:	L6	
The state of the s					TO THE BUILDING STREET OF THE PARTY OF THE P	
Cadmium	14.3	0.65	mg/kg	SW846 6010B	01/22-01/28/03	FF26G1AD
		Dilution Fac	ctor: 1	Analysis Time: 21:	16	
Lead	34000	38.8	mg/kg	SW846 6010B	01/22-01/28/03	FF26G1AE
*	31000	Dilution Fac	7555 BANK	Analysis Time: 17:		
Antimony	893	7.8	mg/kg	SW846 6010B	01/22-01/28/03	FF26G1AF
Ancimony	893	Dilution Fac		Analysis Time: 21:	5) (E) (E)	, , , , , , , , , , , , , , , , , , , ,
Thallium	3.0	1.3	mg/kg	SW846 6010B	01/22-01/28/03	FF26G1AG
and an em	3.0	Dilution Fac		Analysis Time: 21:	The state of the s	
NOTE(S):	6					

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

% Moisture....: 31

		REPORTIN	IG ·		PREPARATION-	WORK
PARAMETER	RESULT	LIMIT	UNITS	METHOD	ANALYSIS DATE	ORDER #
D D-+-1- !!						
Prep Batch #.	: 3017307					
Arsenic	22.4	1.4	mg/kg	SW846 6010B	01/22-01/28/03	FF26H1AC
		Dilution Fac	tor: 1	Analysis Time: 21:29).	
Cadmium	3.9	0.72	mg/kg	SW846 6010B	01/22-01/28/03	ספים ביין
Cadillium	3.9	Adm. Salarana rationals	100 / 1			FEZORIAD
		Dilution Fac	tor: 1	Analysis Time: 21:29		
Lead	6290	4.3	mg/kg	SW846 6010B	01/22-01/28/03	FF26H1AE
		Dilution Fac	2-10-page 100-100-100-100-100-100-100-100-100-100	Analysis Time: 17:22		
		Dilucion Fac	LOI: IV	Analysis lime: 17:22		
Antimony	114	8.7	mg/kg	SW846 6010B	01/22-01/28/03	FF26H1AF
		Dilution Fac	tor: 1	Analysis Time: 21:29		
Thallium	ND	1.4	mg/kg	SW846 6010B	01/22-01/28/03	FF26H1AG
		Dilution Fac	tor: 1	Analysis Time: 21:29		
MOTE(S):						

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

% Moisture....: 49

*							2
		REPORTIN	īG ·		98 - 00	PREPARATION-	WORK
PARAMETER	RESULT	LIMIT	UNITS	METHOD		ANALYSIS DATE	ORDER #
2000 Barrier St. 1960 McG					10		
Prep Batch #.	: 3017307						
Arsenic	29.7	2.0	mg/kg	SW846 6010B		01/22-01/28/03	FF26K1AC
		Dilution Fac	tor: 1	Analysis Time:	21:34		
Cadmium	61.6	0.99	mg/kg	SW846 6010B	60	01/22-01/28/03	FF26K1AD
		Dilution Fac	tor: 1	Analysis Time:	21:34		
		•					
Lead	18000	59.3	mg/kg	SW846 6010B		01/22-01/28/03	FF26K1AB
		Dilution Fac	tor: 100	Analysis Time:	17:26		
Antimony	83.6	11.9	mg/kg	SW846 6010B		01/22-01/28/03	FF26KLAF
		Dilution Fac	tor: 1	Analysis Time:	21:34		
Particle Report II		2 2					
Thallium	ND	2.0	mg/kg	SW846 6010B		01/22-01/28/03	FF26KIAG
		Dilution Fac	tor: 1	Analysis Time:	21:34		*
Nome (a)							
NOTE(S):				-			

ENVIRONMENTAL STRATEGIES CORPORATION

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

TOTAL Metals

Lot-Sample #...: H3A140175-029

Date Sampled...: 01/10/03

Date Received..: 01/14/03

% Moisture....: 45

		REPORTING	3 .		PREPARATION-	WORK
PARAMETER	RESULT	LIMIT	UNITS	METHOD	ANALYSIS DATE	ORDER #
Prep Batch #	: 3017307					
Arsenic	23.0	1.8	mg/kg	SW846 6010B	01/22-01/28/03	FF26M1AC
		Dilution Fact	or: 1	Analysis Time: 21:3	3	
Cadmium	14.9	0.90	mg/kg	SW846 6010B	01/22-01/28/03	FF26M1AD
		Dilution Fact		Analysis Time: 21:3		
			18 4500		s e services	
Lead	9440	54.3	mg/kg	SW846 6010B	01/22-01/28/03	FF26MLAE
		Dilution Fact	or: 100	Analysis Time: 17:3	-	
Antimony	41.4	10.9	mg/kg	SW846 6010B	01/22-01/28/03	FF26MLAF
		Dilution Fact	or: 1	Analysis Time: 21:38	3.	
			/3	011016 60100	01/00 01/00/00	PPO CM1 A C
Thallium	ND	1.8	mg/kg	SW846 6010B	01/22-01/28/03	FF26MIAG
		Dilution Fact	or: 1	Analysis Time: 21:38	<u>.</u>	
NOTE (S):						

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

% Moisture....: 44

		REPORTING		PREPARATION- WORK
PARAMETER	RESULT	LIMIT UNITS	METHOD	ANALYSIS DATE 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	01,10 01,10,00 1110,110
		190		
Lead	6920	54.0 mg/kg	SW846 6010B	01/22-01/28/03 FF2601AE
		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	01,01 01,00,00 11102
		212432011 14400011 1	marybrb rime 21.45	e d
Thallium	ND	1.8 mg/kg	SW846 6010B	01/22-01/28/03 FF26Q1AG
		Dilution Factor: 1	Analysis Time: 21:43	01/22 01/20/03 11200110
		DIIACION FACCOL: I	Analysis lime: 21:43	
MOTE(S):				
2.022 (0).		i de la companya de		

ENVIRONMENTAL STRATEGIES CORPORATION

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

TOTAL Metals

Lot-Sample #...: H3A140175-031

Date Sampled...: 01/10/03

Date Received..: 01/14/03

% Moisture....: 23

		REPORTIN	IG .		PREPARATION- WORK
PARAMETER	RESULT	LIMIT	UNITS	METHOD	ANALYSIS DATE ORDER #
					9
Prep Batch #.	: 3017307				
Arsenic	8.9	1.3	mg/kg	SW846 6010B	01/22-01/28/03 FF26T1AC
		Dilution Fac	tor: 1	Analysis Time: 17	7:58
Cadmium	6.1	0.65	mg/kg	SW846 6010B	01/22-01/28/03 FF26TLAD
		Dilution Fac	tor: 1	Analysis Time: 17	7:58
Lead	841	0.39	mg/kg	SW846 6010B	01/22-01/28/03 FF26T1AE
		Dilution Fac	tor: 1	Analysis Time: 17	7:58
Antimony	ИD	7.8	mg/kg	SW846 6010B	01/22-01/28/03 FF26T1AF
sames and disposition encoderations.		Dilution Fac	tor: 1	Analysis Time: 17	7:58
Thallium	ND	1.3	mg/kg	SW846 6010B	01/22-01/28/03 FF26T1AG
		Dilution Fac	1000	Analysis Time: 17	7:58
MOTE(S):				lan.	93 20 21

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

* Moisture	: 60						
		REPORTIN	G ,			PREPARATION-	WORK
PARAMETER	RESULT	LIMIT	UNITS	METHOD	i	ANALYSIS DATE	ORDER #
Prep Batch #.	• 3017307						
Arsenic	56.9	2.5	mg/kg	SW846 6010E	3	01/22-01/28/03	FF26X1AC
Production of the product seem and developer		Dilution Fact	CD413 CD THORNES	Analysis Time	: 21:47		
Cadmium	9.0	1.3	mg/kg	SW846 6010E	3	01/22-01/28/03	FF26X1AD
		Dilution Fact		Analysis Time		2000 100 COMMISSION SEASON SEA	
Lead	11400	75.5	mg/kg	SW846 6010E	3	01/22-01/28/03	FF26X1AE
2044		Dilution Fact		Analysis Time			
Antimony	107	15.1	mg/kg	SW846 6010E	e Be	01/22-01/28/03	FF26X1AF
raicimony	10,	Dilution Fact	(A. 18/0) (A. 18/0)	Analysis Time		6	
Thallium	ND	2.5	mg/kg	SW846 6010E		01/22-01/28/03	FF26X1AG
IIIaIII	ND	Dilution Fact		Analysis Time		, ,,,	
				8			
MOTE(S):						121	

ENVIRONMENTAL STRATEGIES CORPORATION

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

TOTAL Metals

Lot-Sample #...: H3A140175-033

Date Sampled...: 01/10/03

Date Received..: 01/14/03

% Moisture....: 21

		REPORTIN	G .			PREPARATION-	WORK
PARAMETER	RESULT	LIMIT	UNITS	METHOD		ANALYSIS DATE	ORDER #
Prep Batch #.	: 3017307						
Arsenic	15.8	1.3	mg/kg	SW846 6	5010B	01/22-01/28/03	FF2631AC
3		Dilution Fac	tor: 1	Analysis T	Time: 21:52		
						ř	
Cadmium	7.3	0.64	mg/kg	SW846 6	5010B	01/22-01/28/03	FF2631AD
		Dilution Fac	tor: 1	Analysis T	Time: 21:52		
			227	39) (
Lead	2030	3.8	mg/kg	SW846 6		01/22-01/28/03	FF2631AB
		Dilution Fac	tor: 10	Analysis T	rime: 17:40		•
	22 0	22 1921 1				07/00 07/00/03	DD0 621 3 B
Antimony	20.4	7.6	mg/kg	SW846 6		01/22-01/28/03	FF2631AF
		Dilution Fac	tor: 1	Analysis T	Time: 21:52	16	
m1 7 7 7	177		(1	01:10.46	7010D	01/22-01/28/03	EE26217C
Thallium	ND	1.3	mg/kg	SW846 6		01/22-01/20/03	FF265IAG
		Dilution Fac	cor: 1	Analysis T	Cime: 21:52		
NOTE (S):				v *			
MOTE (D):							

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

% Moisture....: 20

		REPORTING	1.		PREPARATION-	WORK
PARAMETER	RESULT	LIMIT	UNITS	METHOD	ANALYSIS DATE	ORDER #
Prep Batch #	: 3017307					
Arsenic	2.0	1.2	mg/kg	SW846 6010B	01/22-01/28/03	FF2661AC
	a	Dilution Fact	or: 1	Analysis Time: 18:0	2	
Cadmium	0.98	0.62	mg/kg	SW846 6010B	01/22-01/28/03	FF2661AD
		Dilution Facto	7.000	Analysis Time: 18:0	2	
Lead	47.9	0.37	mg/kg	SW846 6010B	01/22-01/28/03	FF2661AE
		Dilution Facto	or: 1	Analysis Time: 18:0	2	
Antimony	ND	7.5	mg/kg	SW846 6010B	01/22-01/28/03	FF2661AF
		Dilution Facto	or: 1	Analysis Time: 18:0	2	
Thallium	ND	1.2	mg/kg	SW846 6010B	01/22-01/28/03	FF2661AG
		Dilution Facto	or: 1	Analysis Time: 18:0	2	
MOTE(S):		0			×	

ENVIRONMENTAL STRATEGIES CORPORATION

Client Sample ID: MW-1

DISSOLVED Metals

Matrix....: WATER Lot-Sample #...: H3A140175-035 Date Sampled...: 01/11/03 Date Received..: 01/14/03 PREPARATION-WORK REPORTING ANALYSIS DATE ORDER # LIMIT UNITS METHOD PARAMETER RESULT Prep Batch #...: 3022129 01/22-01/24/03 FF40N1AC Arsenic 10.0 ug/L SW846 6010B Dilution Factor: 1 Analysis Time..: 20:22 SW846 6010B 01/22-01/24/03 FF40NLAD Cadmium 5.0 uq/L 8.7 Dilution Factor: 1 Analysis Time..: 20:22 uq/L SW846 6010B 01/22-01/24/03 FF40NLAE Lead 38.9 3.0 Analysis Time..: 20:22 Dilution Factor: 1 01/22-01/24/03 FF40N1AA SW846 6010B 60.0 ug/L Antimony ND Dilution Factor: 1 Analysis Time..: 20:22 SW846 6010B 01/22-01/24/03 FF40N1AF Thallium ND 10.0 ug/L Analysis Time..: 20:22 Dilution Factor: 1

ENVIRONMENTAL STRATEGIES CORPORATION

Client Sample ID: MW-2

DISSOLVED Metals

Lot-Sample #...: H3A140175-036

Matrix....: WATER Date Sampled...: 01/11/03 Date Received..: 01/14/03 REPORTING PREPARATION-WORK PARAMETER LIMIT UNITS RESULT METHOD ANALYSIS DATE 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 01/22-01/24/03 FF40QLAD 5.0 ug/L SW846 6010B 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 uq/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

Matrix..... SOLID Client Lot #...: H3A140175 REPORTING PREPARATION-WORK PARAMETER LIMIT UNITS ANALYSIS DATE RESULT METHOD ORDER # MB Lot-Sample #: H3A170000-307 Prep Batch #...: 3017307 Antimony 6.0 mg/kg SW846 6010B 01/22-01/28/03 FF8881AE Dilution Factor: 1 Analysis Time..: 13:30 Arsenic ND SW846 6010B 01/22-01/28/03 FF8881AA 1.0 mg/kg Dilution Factor: 1 Analysis Time..: 13:30 Cadmium ND 0.50 SW846 6010B 01/22-01/28/03 FF8881AC mg/kg Dilution Factor: 1 Analysis Time..: 13:30 Lead SW846 6010B 01/22-01/28/03 FF8881AD MD 0.30 mg/kg Dilution Factor: 1 Analysis Time..: 13:30 Thallium ND 1.0 SW846 6010B 01/22-01/28/03 FF8881AF mg/kg Dilution Factor: 1 Analysis Time..: 13:30 MB Lot-Sample #: H3A220000-115 Prep Batch #...: 3022115 01/22-01/26/03 FGFRV1AE Antimony ND 6.0 mg/kg SW846 6010B Dilution Factor: 1 Analysis Time..: 12:22 01/22-01/26/03 FGFRV1AA Arsenic ND 1.0 mg/kg SW846 6010B Dilution Factor: 1 Analysis Time..: 12:22 01/22-01/26/03 FGFRV1AC Cadmium ND 0.50 SW846 6010B mg/kg Dilution Factor: 1 Analysis Time..: 12:22 Lead ND SW846 6010B 01/22-01/26/03 FGFRV1AD 0.30 mg/kg Dilution Factor: 1 Analysis Time..: 12:22 Thallium ND mg/kg SW846 6010B 01/22-01/26/03 FGFRV1AF 1.0

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

MOTE(S):

Dilution Factor: 1
Analysis Time..: 12:22

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

			OIIII IIC.	CULD		
Client Lot #:	H3A140175				Matrix	: SOLID
PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD		PREPARATION- ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: Arsenic	H3A170000-	(89 - 110)	SW846	6010B	01/22-01/28/03 Time: 13:34	FF8881AG
Cadmium	98				01/22-01/28/03 Time: 13:34	FF8881AH
Lead	97				01/22-01/28/03 Time: 13:34	FF8881AJ
Antimony	94				01/22-01/28/03 Time: 13:34	FF8881AK
Thallium	96				01/22-01/28/03 Time: 13:34	FF8881AL
CS Lot-Sample#: Arsenic	H3A220000-:	115 Prep Ba (89 - 110) Dilution Facto	SW846	6010B	01/22-01/26/03	FGFRV1AG
Cadmium	99				01/22-01/26/03 Time: 12:26	FGFRV1AH
Lead	98				01/22-01/26/03 Time: 12:26	FGFRV1AJ
Antimony	94				01/22-01/26/03 Time: 12:26	FGFRV1AK
Thallium	96	(90 - 110)	SW846	6010B	01/22-01/26/03	FGFRV1AL

Analysis Time..: 12:26

Dilution Factor: 1

NOTE (S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #: H	3A140175	9. 2	Matrix: SOLID
PARAMETER AMOUN		PERCNT RECVRY METHOD	PREPARATION- WORK ANALYSIS DATE ORDER #
LCS Lot-Sample#: H Arsenic 200	3A170000-307 Prep Ba 188 mg/kg Dilution Factor	94 SW846 6010B	01/22-01/28/03 FF8881AG : 13:34
Cadmium 5.00	4.92 mg/kg Dilution Factor		01/22-01/28/03 FF8881AH : 13:34
Lead 50.0	48.6 mg/kg Dilution Factor		01/22-01/28/03 FF8881AJ : 13:34
Antimony 50.0	46.8 mg/kg Dilution Factor		01/22-01/28/03 FF8881AK : 13:34
Thallium 200	192 mg/kg Dilution Facto		01/22-01/28/03 FF8881AL : 13:34
CS Int-Sample#. W	3A220000-115 Prep Ba	tch # • 3022115	
Arsenic 200	189 mg/kg		01/22-01/26/03 FGFRV1AG : 12:26
Cadmium 5.00	4.96 mg/kg Dilution Facto		01/22-01/26/03 FGFRV1AH : 12:26
Lead 50.0	49.0 mg/kg Dilution Facto		01/22-01/26/03 FGFRV1AJ : 12:26
Antimony 50.0	47.0 mg/kg Dilution Facto		01/22-01/26/03 FGFRV1AK : 12:26
Thallium 200	192 mg/kg Dilution Facto		01/22-01/26/03 FGFRV1AL : 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 #		.: 01/10/03	Matrix: SOLID	
PARAMETER	PERCENT RECOVERY	RECOVERY RPD LIMITS RPD LIMITS	METHOD .	PREPARATION- WORK ANALYSIS DATE ORDER #
MS Lot-Sampl	.e #: H3A10	00141-010 Prep Batch #	.: 3017307	
		A Section and and a section and the section an		% Moisture: 16
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
Arsenic	103	(75 - 125) 1.0 (0-20)		01/22-01/28/03 FFWCG1AJ
	103	Dilution Factor: 10	BHOID OUTOD	01/12 01/20/03 11//00110
		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		
	S. Santanana annarana			
ead	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.

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.

NC The recovery and/or RPD were not calculated.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

	ot #: pled:			Date Receive	ed: 0	1/10/0	03	Matri	x SOL	ID
PARAMETE	SAMPLE R AMOUNT		MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOL)	PREPARATION - ANALYSIS DATE	WORK ORDER #
MS Lot-S	ample #:	H3A1001	41-010	Prep Batch ‡	#: 3	017307	7	9. 16-1.	sture: 16	
Antimony								4 MOT	sture: 16	
1110211011	92.6	59.5	119 N	mg/kg	45		SW846	6010B	01/22-01/28/03	
	92.6	59.5	125 N	mg/kg	54	4.4	SW846	6010B	01/22-01/28/03	FFWCG1A
				ion Factor: 10						
			Analy	ysis Time: 16	:10					
Arsenic										
mocmic	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
			Name of the Control o	ion Factor: 10						
			Analy	ysis Time: 16	:10					
Cadmium										
Caumitum	1.3	5.95	10.3 N	ma/ka	151		SW846	6010B	01/22-01/28/03	FFWCG1A
	1.3	5.95	9.46 N		137	8.2			01/22-01/28/03	
			Dilut	ion Factor: 10						
			Analy	ysis Time: 16	:10					
	*									
Lead	1210	59.5	1050	mg/kg			SW846	6010B	01/22-01/28/03	FFWCG1 AI
	1210	39.3		ifiers: NC,N	MSB		211040	00100	01/22 01/20/03	111100111
	1210	59.5	812	mg/kg			SW846	6010B	01/22-01/28/03	FFWCG1A)
			Qual	ifiers: NC, N	ISB					
			-	ion Factor: 10						
			Analy	sis Time: 16	:10					
								ar En je		
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		01/22-01/28/03	
		we.co/50/578		ion Factor: 10	STATE OF STA		**************************************		70 W	
			Analy	sis 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.

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.

NC The recovery and/or RPD were not calculated.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot # Date Sampled		.: 01/14/03	Matrix: SOLID	
PARAMETER	PERCENT RECOVERY	RECOVERY RPD LIMITS RPD LIMITS	METHOD	PREPARATION- WORK ANALYSIS DATE ORDER #
MS Lot-Sampl	e #: H3A14	0175-001 Prep Batch #	.: 3022115	
Antimony	56 N 52 N	(75 - 125) (75 - 125) 4.2 (0-20) Dilution Factor: 10 Analysis Time: 16:28	SW846 6010B SW846 6010B	% Moisture: 30 01/22-01/26/03 FF24C1AQ 01/22-01/26/03 FF24C1AR
Arsenic	97 94	(75 - 125) (75 - 125) 2.9 (0-20) Dilution Factor: 10 Analysis Time: 16:28	SW846 6010B SW846 6010B	01/22-01/26/03 FF24C1AJ 01/22-01/26/03 FF24C1AK
Cadmium	127 N 85	(75 - 125) (75 - 125) 18 (0-20) Dilution Factor: 10 Analysis Time: 16:28	SW846 6010B SW846 6010B	01/22-01/26/03 FF24C1AL 01/22-01/26/03 FF24C1AM
ead	NC,MSB NC,MSB	(75 - 125) (75 - 125) (0-20) Dilution Factor: 10 Analysis Time: 16:28	SW846 6010B SW846 6010B	01/22-01/26/03 FF24C1AN 01/22-01/26/03 FF24C1AP
Thallium	94 94	(75 - 125) (75 - 125) 0.35 (0-20) Dilution Factor: 10 Analysis Time: 16:28	SW846 6010B SW846 6010B	01/22-01/26/03 FF24C1AT 01/22-01/26/03 FF24C1AU

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.

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

NC The recovery and/or RPD were not calculated.

N Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

	t Lot # Sampled			Date Receiv	ed: 0	1/14/	03	Matri	x SOL	ID
PARAM	SAMPLI METER AMOUNT	E SPIKE F AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHO	<u> </u>	PREPARATION- ANALYSIS DATE	WORK ORDER #
MS To	t-Sample #:	H3D1401	75-001	Prep Batch	# 30	02211	5			
PID IIC	oc bampic m	. 115111101	75 001	rrop bacon				% Moi	sture: 30	
Antim	ony									
	33.1	71.2	73.2 N	(100 kg - 100 kg - 10	56			6010B	01/22-01/26/03	
	33.1	71.2	70.2 N	mg/kg	52	4.2	SW846	6010B	01/22-01/26/03	FF24C1A
				tion Factor: 10						
			Anal	ysis Time: 16	:28					
Arsen	ia									
ALSCII	31.6	285	309	mg/kg	97		SW846	6010B	01/22-01/26/03	FF24C1A
	31.6	285	300	mg/kg	94	2.9		6010B	01/22-01/26/03	
	32.00			tion Factor: 10	-				10.440mm 20.44	
			Anal	ysis Time: 16	:28					
Cadmi	um									
	8.5	7.12	17.6 N		127			6010B	01/22-01/26/03	
	8.5	7.12	14.6	mg/kg	85	18	SW846	6010B	01/22-01/26/03	FF24CIA
				tion Factor: 10						
			Anal	ysis Time: 16	:28					
Lead										
псац	8440	71.2	10600	mg/kg			SW846	6010B	01/22-01/26/03	FF24C1A
				ifiers: NC,	MSB				20 10 000	
	8440	71.2	8520	mg/kg			SW846	6010B	01/22-01/26/03	FF24C1A
			Qual	ifiers: NC,	MSB					
			Dilu	tion Factor: 10	ĺ.					
			Anal	ysis Time: 16	:28					
m 1 7 7										
Thall	.ium ND	285	269	mg/kg	94		SM846	6010B	01/22-01/26/03	FF24C1A
	ND	285 285	268	mg/kg	94	በ ጓፑ	SW846		01/22-01/26/03	
	IND	200		mg/kg tion Factor: 10	.E.M.(CE.)	5.55	DHOTO	00101	,,,,,,,,,	
				ysis Time: 16						
				2						

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

					12
		REPORTING		PREPARATION-	WORK
PARAMETER	RESULT	LIMIT UNITS	METHOD	ANALYSIS DATE	ORDER #
MB Lot-Sample	#: H3A220000)-129 Prep Batch #:	3022129	97 198	
Antimony	ND	60.0 ug/L	SW846 6010B	01/22-01/24/03	FGFT01AA
AND COMMON AS THE REPORT OF STATE OF ST		Dilution Factor: 1			
	\$0:	Analysis Time: 14:56	8	, T	
		Sector Transition • St. activistics - Laborativitationals - (6,00 ml - 2m) distributionals			
Arsenic	ND	10.0 ug/L	SW846 6010B	01/22-01/24/03	FGFT01AC
	9	Dilution Factor: 1			
		Analysis Time: 14:56			
		•			
Cadmium	ND	5.0 ug/L	SW846 6010B	01/22-01/24/03	FGFT01AD
**		Dilution Factor: 1		980 P. C. A.	
		Analysis Time: 14:56			
		Demoderatives and Construction (Construction Construction Cons			
Lead	ND	3.0 ug/L	SW846 6010B	01/22-01/24/03	FGFT01AE
		Dilution Factor: 1		8	
		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):					
21022 (0) .					

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
PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS METHO	D	PREPARATION- ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: Antimony		129 Prep Batch #. (90 - 110) SW846 Dilution Factor: 1	6010B		FGFT01AG
Arsenic	98	(90 - 110) SW846 Dilution Factor: 1			FGFT01AH
Cadmium	99	(90 - 110) SW846 Dilution Factor: 1			FGFT01AJ
Lead	99	(90 - 110) SW846 Dilution Factor: 1		PORTUGE CONTRACTOR DESCRIPTION OF ANY OF ANY	FGFT01AK
Thallium	98	(90 - 110) SW846 Dilution Factor: 1		and the same of th	FGFT01AL

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

'OTE(S):

LABORATORY CONTROL SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #	: НЗА	140175			*	Matrix:	WATER	
PARAMETER	SPIKE AMOUNT	MEASURE AMOUNT		PERCNT RECVRY		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	r: l	Analysis Time:	15:00		
Arsenic	2000	1950	ug/L		SW846 6010B Analysis Time:	01/22-01/24/03	FGFT01AH	
							24	
Cadmium	50.0	49.6	ug/L	99	SW846 6010B	01/22-01/24/03	FGFT01AJ	
			Dilution Factor	7: 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		

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

'OTE (S):

MATRIX SPIKE SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot # Date Sampled		.: 01/14/03	Matrix: WATER	
PARAMETER	PERCENT RECOVERY	RECOVERY RPD LIMITS RPD LIMITS	METHOD	PREPARATION- WORK ANALYSIS DATE ORDER #
MS Lot-Samol	e #: H3A14	0175-036 Prep Batch #	.: 3022129	
Antimony	97	(75 - 125)	SW846 6010B	01/22-01/24/03 FF40Q1AG
	99	(75 - 125) 1.9 (0-20) Dilution Factor: 1	SW846 6010B	01/22-01/24/03 FF40Q1AH
		Analysis Time: 20:40		
Arsenic	98	(75 - 125)	SW846 6010B	01/22-01/24/03 FF40Q1AJ
	100	(75 - 125) 2.4 (0-20) Dilution Factor: 1 Analysis Time: 20:40	SW846 6010B	01/22-01/24/03 FF40Q1AK
Cadmium	98 95	(75 - 125) (75 - 125) 2.1 (0-20) Dilution Factor: 1 Analysis Time: 20:40	SW846 6010B SW846 6010B	01/22-01/24/03 FF40Q1AL 01/22-01/24/03 FF40Q1AM
Lead	97 100	(75 - 125) (75 - 125) 2.3 (0-20)	SW846 6010B SW846 6010B	01/22-01/24/03 FF40Q1AN 01/22-01/24/03 FF40Q1AP
	100	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) Dilution Factor: 1	Committee Commit	01/22-01/24/03 FF40Q1AR
		Analysis Time: 20:40		

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

NOTE (S):

MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot # ...: H3A140175 Matrix..... WATER Date Sampled...: 01/11/03 Date Received..: 01/14/03 SAMPLE SPIKE MEASRD PERCNT PREPARATION-WORK PARAMETER AMOUNT AMT TUUOMA UNITS RECVRY RPD METHOD ANALYSIS DATE ORDER # 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 01/22-01/24/03 FF40Q1A ug/L 100 2.4 SW846 6010B 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 62.9 01/22-01/24/03 FF40Q1AJ 15.4 50.0 2.1 SW846 6010B ug/L 95 Dilution Factor: 1 Analysis Time..: 20:40 Lead 14.1 500 01/22-01/24/03 FF40Q1AJ 501 ug/L 97 SW846 6010B 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 98 SW846 6010B 01/22-01/24/03 FF40Q1A ug/L ND 2000 2000 01/22-01/24/03 FF40Q1A ug/L 100 2.3 SW846 6010B Dilution Factor: 1 Analysis Time..: 20:40

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

NOTE(S):

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: H3A140175

Matrix..... WATER

		REPORTING		PREPARATION-	WORK
PARAMETER	RESULT	LIMIT UNITS	METHOD	ANALYSIS DATE	ORDER #
A					
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	21 18 18 18		
Cadmium	ND	5.0 ug/L	SW846 6010B	01/22-01/24/03	FGFT21AG
		Dilution Factor: 1			
		Analysis Time: 14:47			
				200	
Lead	ND	3.0 ug/L	SW846 6010B	01/22-01/24/03	FGFT21AN
		Dilution Factor: 1			
		Analysis Time: 14:47			
				7 3 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	National Action Commission Commis
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

Clier	1+	Lot	++	a a •	H3	7 7	40	7	75
CILEI	IL.	LUL	# .	:	\mathbf{n}	$^{\rm A}$. 4 U	т	12

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

TOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #	: НЗА	140175				Matrix:	WATER
PARAMETER	SPIKE AMOUNT	MEASURI AMOUNT		PERCNT RECVRY	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
LCS Lot-Samp	le#: H3A	.220000-:	130 Prep Bate	ch #	: 3022130		
					SW846 6010B	01/22-01/24/03	FGFT21A2
			Dilution Factor	: 1	Analysis Time:	14:51	
Arsenic	2000	1980	ug/L Dilution Factor	190	SW846 6010B Analysis Time: 1	01/22-01/24/03	FGFT21A3
Cadmium	50.0	50.4	ug/L Dilution Factor		SW846 6010B Analysis Time:	01/22-01/24/03	FGFT21A6
Lead	500	499	ug/L Dilution Factor		SW846 6010B Analysis Time: 1	01/22-01/24/03 4:51	FGFT21CD
Thallium	2000	1990	ug/L Dilution Factor	99	SW846 6010B Analysis Time: 1	01/22-01/24/03 .4:51	FGFT21CQ

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

TOTE(S):

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot # Date Sampled		Matrix: WATER											
PARAMETER	PERCENT RECOVERY	RECOVERY RPD LIMITS RPD LIMITS	METHOD	PREPARATION- WORK ANALYSIS DATE ORDER #									
MS Lot-Sampl	e #: H3A10	00268-002 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											
	our tempo	Autoria de managa.											
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									
Leau	100	(75 - 125) 0.89 (0-20)		01/22-01/24/03 FFXDR1CX									
	100	Dilution Factor: 1	PM040 0010D	01/22-01/24/03 IIADRICA									
		Analysis Time: 20:04											
		Analysis lime 20:04											

NOTE(S):

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

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Matrix..... WATER Client Lot #...: H3A140175 Date Sampled...: 01/09/03 Date Received..: 01/10/03 PREPARATION-WORK PERCNT MEASRD SAMPLE SPIKE ORDER # PARAMETER AMOUNT AMT RECVRY RPD METHOD ANALYSIS DATE AMOUNT UNITS MS Lot-Sample #: H3A100268-002 Prep Batch #...: 3022130 Antimony 500 500 ug/L 100 SW846 6010B 01/22-01/24/03 FFXDR1A ND 1.1 SW846 6010B 01/22-01/24/03 FFXDR1A 494 ug/L 99 ND 500 Dilution Factor: 1 Analysis Time..: 20:04 Arsenic SW846 6010B 01/22-01/24/03 FFXDR1C ND 2000 2010 100 ug/L 01/22-01/24/03 FFXDR1C 1.4 SW846 6010B ND 2000 1980 ug/L 99 Dilution Factor: 1 Analysis Time..: 20:04 Cadmium SW846 6010B 01/22-01/24/03 FFXDR1C ND 103 50.0 51.5 ug/L 01/22-01/24/03 FFXDR1C 0.97 SW846 6010B ND 50.0 51.0 ug/L 102 Dilution Factor: 1 Analysis Time..: 20:04 Lead 01/22-01/24/03 FFXDR1C' SW846 6010B 101 500 505 ug/L ND 01/22-01/24/03 FFXDR1C: 501 100 0.89 SW846 6010B ND 500 ug/L Dilution Factor: 1 Analysis Time..: 20:04

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

NOTE(S):

Sample Receipt Documentation

call of thousand	H3AIHOFIS Page 1 of 3	Feer History And I was any	REMARKS	Slava High levels	Expeded to			Reichtemp. 3°C	Custedy Seals Latact	(Cco (+1) + + + + + + + + + + + + + + + + + +	833210801258	MF4 01-14-03			ENVIRONMENTAL STRATEGIES CORPORATION	Reston, Virginia 20190 (703) 709-6500 • Fax (703) 318-3995	Fax (412) 787-8065			ESC		DPY TO ESC FILES
14-14-	CHAIN OF CUSTODY RECORD	Me state of the later of the la	955 Se. 1 1 X X X 1 1 1:02 229	1/10/03 1600 5.1 1 1	1/10/03 1005 So. 1 1	1700		1/0/37 1710 50, 1 1	1/10/03 1715 50:11	1/1/05 1100 501 1	1/1/03 1110 50,1 1	1/10/63 1120 51 1	1125	- 10	Received by: (Signature)	M Lilan CITY:	Received by: (Signature) COURIER:	AIRBILL NO.	Date/Time CUSTODY SEAL NOS:	σωαινή ρίμμος οφίω	IE FOLLOWING ESC STAFF MEMBER:	DISTRIBUTION: ORIGINAL ACCOMPANIES SHIPMENT: COPY TO ESC FILES
	No. 025488	PROJECT NO. PROJECT NAME AND LOCATION: 1 26. 768	25 (0.05)	HA-3-15 (1.0-1.5)	144-3-15 (1.5-20)	-5-15	M-5-15 (1-15)	HA-6-15 (0-6.5)	14A-6-15 (0.5-10)	(1-1-1 (1-1.5)	(1-1.5) (1-1.5)	(Lat-1-3 (65-1.0)	Lat-1-3 (10-1.5)		Date/Time	(201 50/1/ Sam) 1 - M/2	Relinquished by: (Signature) Date/Time.	Melder 113/03 1600	Received for Laboratory by: PRINT NAME: (Signature)	Mathe I Haven Mathew F. Howard	ATTENTION LAB: SEND ANALYTICAL RESULTS TO THE FOLLOWING	CA MA PA MIN

No. 023487			HAIN OF	5	CHAIN OF CIISTONY RECORD	nan		of Milkell	<u>1</u>			۲,
			io allum		100						rage	5
PROJECT NO. PROJECT NAME, 12298 NL-At	NAME AND LOCATION:			NINERS								
SAMPLERS: (Signature)	PRINT NAME:	196.3		- СОИТ⊁	fan	دمرار	List.	مر '' ''ر	J. 2412	72		
SÁMPLE I.D.	SAMPLE LOCATION	DATE TIME	= MATRIX		÷>	A.	رد	7	J. J.		REMARKS	зКS
EB-01-10-03	> 1. W. Mary files	1/4/13 0305	s Ag	_	¥	Ř	X	X	X	4+49	10tol	
MW-1	/	11/11/03 1005	5 Ag	7	¥	×	X	メ	X		Total+ 1	Dissolved
MW-2	\	511/03 011	- A4,	٦	X	¥.	×	X	X)	154 +	Disso lored
(2-1) 2-MM	/	Hopes 815		-	*	~	×	×	¥			
(3-4)		110/es 830	Sorl	-	×	×	×	~	×			
(p-8) Z-mw	/	110/03 B45	- Se: 1	-	۲,	X	×	×	X			
AW-2 (12-13)	7	110fes 120	, Seil	_	7	×	*	×	¥			
14A-0-15 (1.0-1.5)		1/10/cs 915		1	*	*	¥	义	×			
HA-1-10 (0-0.5)		1110/05 930	٠.٠	-	7	×	×	×	X			2
HA-1-10 (1-1.5)	/		1:35	-	Ł	×	Ж.	ヹ	×			
11A-1-30 (6-0.5)		11063 940	1.5	-	X	У.	K	x.	×		-1	
	\	1/10/03 445		-	X	ኦ	K	Y	¥			
HA-2-10 (6-0.5)		1110/03 950	>	-	X	メ	Ķ	X	×	i)	£	
	Date/Time	.;	(Signature)	7 ')/ - 2/5	LINXON	1/2	百二	ENVIRONMENTAL S	ENTAL ST	ENVIRONMENTAL STRATEGIES CORPORATION	DRPORATION
Har ! Mark	11/03 1200	MIT	X m	ਹ	CITY:			: # E	Reston, Virginia 20190 (703) 709-6500 • Fax (nia 20190 00 • Fax (Reston, Virginia 20190 (703) 709-6500 • Fax (703) 318-3995	
Relinquished by: (Signature)	Date/Time	Received by: (S	(Signature)	Ö	COURIER:			<u>R</u>	Fax (412) 787-8065	7-8065		8
Al Lather X	1/13/03 1600	ž.		₹	AIRBILL NO.							
Received for Laboratory by: (Signature)	PRINT NAME:		Date/Time		CUSTODY SEAL NOS	EAL NOS						
Mathen Howen	is Wathen F. Howard		0114.03 09100)		COOLER NO:	.:			高	国	SC	
ATTENTION LAB: SEND A	SEND ANALYTICAL RESULTS TO THE FOLLOWIN		G ESC STAFF MEMBER:	= MEN	IBER:							

H341H10173

DISTRIBUTION: ORIGINAL ACCOMPANIES SHIPMENT: COPY TO ESC FILES

SA

					25	2022							v Braze		 	2020-00000			555				63
Page 3 of 3			/ REMARKS													ENVIRONMENTAL STRATEGIES CORPORATION) (703) 318-3995				SC		*
H3A14017S	75. / 1	الماندي	/b/2/	×							7			-		ENVIRONMENTAL S	11911 Freedom Drive Reston, Virginia 20190 (703) 709-6500 • Fax (703) 318-3995	Fax (412) 787-8065					OPY TO ESC FILES
ODY RECORD		See of Sea of Se	10/4/0/	× Q ×			•				> A					AB NAME:	CITY:	COURIER:	AIRBILL NO.	CUSTODY SEAL NOS:	COOLER NO:	3ER:	DISTRIBUTION: ORIGINAL ACCOMPANIES SHIPMENT: COPY TO ESC FILES
CHAIN OF CUSTODY RECORD	VINERS	, Sear	DATE TIME MATRIX O	1110/63 1305 5.: 1	1/10/03 1310 Sec. 1	1/10/6/1315 5.1/1	1 1.5 6581 6/01/	1 1/0/0/ 1 335 Soil 1	1/10/67 1400 Soil 1	11/0/07 1405 S 1	1/10/03 1415 Soil 1					Received by: (Signature)	Willes O	Received by: (Signature) CC	¥ .	Date/Time CL	1 OL/4-03 C9"20	FOLLOWING ESC STAFF MEMBER:	DISTRIBUTION: C
	PROJECT NAME AND LOCATION:	NAME:	SAMPLE LOCATION	1								٠			7	/ Date/Time R	1/11/k3 1200)	Date/Time R	1/13/03 1600	PRINT NAME:	Mattew F. Howar	SEND ANALYTICAL RESULTS TO THE FOLLOWING	PA MN
No. 023486	PROJECT NO. PROJECT N 12698S WL -1	Cignature)	SAMPLE I.D. STEW	(51-1)1-2-電	(1-2-2 (0.5-1)	(1-1.5)	(1-5-2 (0.5-1)	(2-1-1) 2-2-17	14-3-1 (0-0-5)	(1-1.5) 1-5-tm	1-4-3-2 (0.5-1.0)				//	Relinquished by: (Signature)	Jan. Misk	Relinquished by: (Signature)	Mules	Received for Laboratory by: (Signature)	Mathen Howard	ATTENTION LAB: SEND ANA	CA



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

TEL: (978) 808-4612 FAX (978) 264-0537

RE: National Smelting & Refining

Dear Gigi Beaulieu:

Order No.: 0402A27

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

No. 027526

CHAIN OF CUSTODY RECORD

0462A27

6, Cu, Pb, Mn Samples chilled 56, AS, Cd, CT, metals = on wetica, ō REMARKS ENVIRONMENTAL STRATEGIES · 11911 Freedom Drive Reston, Virginia 20190 (703) 709-6500 • Fax (703) 318 3005 (200 00) X CITY: Atlanta, GA x X X X Seit SEND ANALYTICAL RESULTS TO THE FOLLOWING ESC STAFF MEMBER: SPEAULION CUSTODY SEAL NOS: LAB NAME: 4ES X X COOLER NO: AIRBILL NO. COURIER: X X X X 12 જ 5 3 OF CONTAINERS 11:20 GW 5 12:22 GW 7 14:15 GW Date/Time TIME MATRIX 13:15 GW 4 PRINT NAME: GISO/Le Beaulieu 17.85 Si Date/Time Received by: (Signature) Received by: (Signature) Sobeaulien 424 4:01 M. Gefr DATE PROJECT NO. PROJECT NAME AND LUCATION. Date/Time SAMPLE LOCATION PRINT NAME: SAMPLERS: (Signature) TrpBlank Received for Laboratory by: (Signature) Relinquished by: (Signature) MW-2 Relinquished by: (Signature) RENTA MCCAN Y MW-D MWI 540'W ATTENTION LAB: SAMPLE I.D.

DISTRIBUTION: ORIGINAL ACCOMPANIES SHIPMENT: COPY TO ESC FILES

Sample/Cooler Receipt Checklist

Client	, ,	Work Orde	er Number <u>0402A27</u>	
Signature Dat	124/04			
Carrier name: FedEx UPS Courier \(\subseteq \text{Client U}	S Mail Othe	er		
Shipping container/cooler in good condition?	Yes _v	No	Not Present	
Custody seals intact on shipping container/cooler?	Yes	No	Not Present	
Custody seals intact on sample bottles?	Yes _ /	No	Not Present _i	
Container/Temp Blank temperature in compliance? (4°C±2)*	Yes _	No _		
Cooler #1 4.7° U Cooler #2 Cooler #3	_ Cooler #4 _	Coo	oler#5 Cooler #6	
Chain of custody present?	Yes V	No _		
Chain of custody signed when relinquished and received?	Yes i	No _		
Chain of custody agrees with sample labels?	Yes i	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 V		
Proceed with Standard TAT as per project history?	Yes _i	No	Not Applicable	
Water - VOA vials have zero headspace? No VOA vials su	bmitted	Yes 🗸	/ No	
Water - pH acceptable upon receipt?	Yes 🗹	No _	Not Applicable	
Adjusted?	Chec	cked by	N.0	

See Case Narrative for resolution of the Non-Conformance.

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

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

Date: 01-Mar-04

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.

Date: 01-Mar-04

CLIENT:

Environmental Strategies Corporation, LLC

Client Sample ID: MW-3

Lab Order:

0402A27

Collection Date: 2/24/2004 11:20:00 AM

Project:

National Smelting & Refining

Lab ID:

0402A27-001

Analyses			Result	Rpt. Limit	Qual	Units	DF	Date Analyzed	
METALS, TOT	AL	S 1983		SW6	010B	5W2804		Analyst: CDV	
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	ĩ	2/25/2004 11:47:00 PM	
Zinc			0.255	0.0200		mg/L	1	2/25/2004 11:47:00 PM	
MERCURY, TO	TAL			SW7	470A			Analyst: CDW	
Mercury			BRL	0.00020		mg/L	1	2/27/2004 10:25:00 AM	
POLYAROMAT	IC HY	DROCARBONS		SW8	270C			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-Methylnaphtha			BRL	10		μg/L	1	2/25/2004 5:59:00 PM	
2-Methylnaphtha			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)anthrace	ene		BRL	10		μg/L	1	2/25/2004 5:59:00 PM	
Chrysene	entari		BRL	10		μg/L	1	2/25/2004 5:59:00 PM	
Benzo(b)fluorant	thene		BRL	10		μg/L	1	2/25/2004 5:59:00 PM	
Benzo(k)fluorant			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)anthr	racene		BRL	10		μg/L μg/L	1	2/25/2004 5:59:00 PM	
Benzo(g,h,i)pery			BRL	10		µg/L µg/L	1	2/25/2004 5:59:00 PM	
Indeno(1,2,3-cd)		1 9	BRL	10			, 1	2/25/2004 5:59:00 PM	
Surr: Nitroben:			66.3	32.3-136		µg/L %REC	1	2/25/2004 5:59:00 PM	
Surr: 2-Fluorol			76.2	37-135		%REC	1		
Surr: 4-Terphe	60	•	84.8	21.9-145		%REC	1	2/25/2004 5:59:00 PM 2/25/2004 5:59:00 PM	
CL VOLATILE				SW82					
1,1,1-Trichloroeth		11100	BRL	5.0		ıg/L	1	Analyst: TMP 2/26/2004 1:26:00 PM	
1,1,2,2-Tetrachlo		ne	BRL	5.0	-	ıg/L ıg/L	1	2/26/2004 1:26:00 PM	
Qualificare	*	Value exceeds Maxim	ım Contemina I				Auglier detected in t	ha associated M-th-d DL-1	
		Value exceeds Maximi Below Reporting Limit		cvei		B E	Analyte detected in the associated Method Blank Value above quantitation range		
		Holding times for prep		exceeded		J		ow quantitation limits	
		Analyte not NELAC co		J. Cooded		P		fication pending Page 1 of	
		MIGHT HOLINELAC CO	ANTICO				INLLINE analyte cell	DESCRIPTION OF THE CONTRACT OF	

Date: 01-Mar-04

CLIENT:

Environmental Strategies Corporation, LLC

Client Sample ID: MW-3

Lab Order:

0402A27

Collection Date: 2/24/2004 11:20:00 AM

Project:

National Smelting & Refining

Lab ID:

0402A27-001

Analyses	Result	Rpt. Limit	Qual Units	s DF	Date Analyzed	
TCL VOLATILE ORGANICS		SW8	260B		Analyst: TMF	
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	i	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	
Dualifiers: * Value exceeds Ma	vimum Conteminant I av	al	В	Analuta dataatad :- 4	ne accognited Mathed Dia-1-	
BRL Below Reporting I	Maximum Contaminant Level			Analyte detected in the associated Method Blank Value above quantitation range		
		aaadad	E			
	preparation or analysis ex	.ceeaea	J	Analyte detected belo		
N Analyte not NELA	C centiled		P	NELAC analyte certi	fication pending Page 2 of	

Date: 01-Mar-04

CLIENT:

Environmental Strategies Corporation, LLC

Client Sample ID: MW-3

Lab Order:

0402A27

National Smelting & Refining

Collection Date: 2/24/2004 11:20:00 AM

Project: Lab ID:

0402A27-001

Matrix: GROUNDWATER

Analyses	Result	Rpt. Limit Qua	I 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
- 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 Page 3 of 16
- S Spike Recovery outside accepted recovery limits

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

Analyses	Result	Rpt. Limit	ual Units	DF	Date Analyzed
METALS, TOTAL		SW601	0B		Analyst: CDV
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		SW747			Analyst: CDV
Mercury	BRL	0.00020	mg/L	1	2/27/2004 10:25:00 AM
POLYAROMATIC HYDROCARBONS		SW827	0C		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
Section 10 St.	BRL	10	μg/L	1	2/25/2004 7:50:00 PM
Chrysene Repro/b/fuoranthana	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 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: 0 0 PM
Indeno(1,2,3-cd)pyrene			μg/c %REC	1	2/25/2004 7:50:00 PM
Surr: Nitrobenzene-d5	73.3	32.3-136 37-135	%REC	1	2/25/2004 7:50: 00 PM
Surr: 2-Fluorobiphenyl Surr: 4-Terphenyl-d14	80.5 86.9	21.9-145	%REC	1	2/25/2004 7:50:00 PM
CL VOLATILE ORGANICS		SW826			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: 0 0 PM
Qualifiers: * Value exceeds Maximum	Contaminant	Loval	В	Analyte detected in t	the associated Method Blank
100 S000 0.00	i contaminant	LAVCI	E E	Value above quantit	
	ation or england	c exceeded	E J		ow quantitation limits
H Holding times for prepar		s exceeded		•	
N Analyte not NELAC cert	11160		P S	MELAC analyte cen	ification pending Page 4 o

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

Analyses	Result	Rpt. Limit	Qual Units	DF	Date Analyzed	
TCL VOLATILE ORGANICS		SW82	260B		Analyst: TMF	
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	i	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	րց/∟ µg/∟	1	2/26/2004 1:51:00 PM	
Ethylbenzene	BRL	5.0	µg/L µg/L	1	2/26/2004 1:51:00 PM	
Freon-113	BRL	10		-1 -1	2/26/2004 1:51:00 PM	
	BRL	5.0	μg/L	1	2/26/2004 1:51:00 PM	
Isopropylbenzene	BRL	10	µg/L µg/L	1	2/26/2004 1:51:00 PM	
m,p-Xylene			100000	1	2/26/2004 1:51:00 PM	
Methyl acetate	BRL BRL	5.0	μg/L	1	2/26/2004 1:51:00 PM	
Methyl tert-butyl ether	BRL	5.0 5.0	μg/L	1	2/26/2004 1:51:00 PM	
Methylogo chlorida			μg/L			
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 Max	imum Contaminant Lev	/el	В	Analyte detected in t	he associated Method Blank	
BRL Below Reporting Li				Value above quantita	ation range	
	reparation or analysis e	xceeded	J	Value above quantitation range Analyte detected below quantitation limits		
N Analyte not NELAC			P		fication pending Page 5 of	
Rpt Limit Reporting Limit			S	Snike Recovery outs	ide accepted recovery limits	

Environmental Strategies Corporation, LLC

Lab Order: 0402A27

Project: National Smelting & Refining

Lab ID: 0402A27-002

CLIENT:

Date: 01-Mar-04

Client Sample ID: MW-2

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

Analyses	Result	Rpt. Limit Q	ual Units	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW826	0B		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

Oua	1:4	Fi a	

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

- В Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P NELAC analyte certification pending Page 6 of 16 Spike Recovery outside accepted recovery limits

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

Analyses		Result	Rpt. Limit	Qual U	Jnits	DF	Date Analyzed	
METALS, TOTAL	2		sw6	010B			Analyst: CDW	
Antimony		BRL	0.0200	m	ıg/L	1	2/25/2004 11:56:00 PM	
Arsenic		BRL	0.0500	m	ıg/L	1	2/25/2004 11:56:00 PM	
Cadmium		BRL	0.0050	m	ıg/L	1	2/25/2004 11:56:00 PM	
Chromium		BRL	0.0100	m	g/L	1	2/25/2004 11:56:00 PM	
Cobalt		0.0268	0.0200	m	g/L	1	2/25/2004 11:56:00 PM	
Copper		BRL	0.0100	m	g/L	1	2/25/2004 11:56:00 PM	
Lead		0.166	0.0100	m	g/L	1	2/25/2004 11:56:00 PM	
Manganese		4.88	0.0050	m	g/L	1	2/25/2004 11:56:00 PM	
Nickel		BRL	0.0200	m	g/L	1	2/25/2004 11:56:00 PM	
Silver		BRL	0.0100	m	g/L	1	2/25/2004 11:56:00 PM	
Thallium		BRL	0.0200	m	g/L	1	2/25/2004 11:56:00 PM	
Zinc		0.0246	0.0200	m	g/L	1	2/25/2004 11:56:00 PM	
ERCURY, TOTA	L		SW7	470A			Analyst: CDW	
Mercury		BRL	0.00020	m	g/L	1	2/27/2004 10:25:00 AM	
OLYAROMATIC	HYDROCARBONS		SW82	270C			Analyst: YH	
Naphthalene		BRL	10	μд	J/L	1	2/25/2004 8:27:00 PM	
Acenaphthylene		BRL	10	μд	/L	1	2/25/2004 8:27:00 PM	
1-Methylnaphthaler	е	BRL	10	μg	/L	1	2/25/2004 8:27:00 PM	
2-Methylnaphthaler	е	BRL	10	μд	/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	рд	/L	1	2/25/2004 8:27:00 PM	
Phenanthrene		BRL	10	μд	/L	1	2/25/2004 8:27:00 PM	
Anthracene		BRL	10	μд	/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	μд		1	2/25/2004 8:27:00 PM	
Chrysene		BRL	10	μg	/L	1	2/25/2004 8:27:00 PM	
Benzo(b)fluoranthei	ne	BRL	10	μg		1	2/25/2004 8:27:00 PM	
Benzo(k)fluoranther	ie	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)anthrace	ene	BRL	10	μg	/L	1	2/25/2004 8:27:00 PM	
Benzo(g,h,i)perylen	e	BRL	10	μg	/L	1	2/25/2004 8:27:00 PM	
Indeno(1,2,3-cd)pyr	ene	BRL	10	μg/	/L	1	2/25/2004 8:27:00 PM	
Surr: Nitrobenzer	e-d5	71.2	32.3-136		REC	1	2/25/2004 8:27:00 PM	
Surr: 2-Fluorobipl	nenyl	77.8	37-135	%F	REC	1	2/25/2004 8:27:00 PM	
Surr: 4-Terpheny	-d14	85.6	21.9-145	%F	REC	1	2/25/2004 8:27:00 PM	
CL VOLATILE OF	GANICS		SW82	60B			Analyst: TMP	
1,1,1-Trichloroethan	е	BRL	5.0	μg/	'L	1	2/26/2004 2:16:00 PM	
1,1,2,2-Tetrachloroe	thane	BRL	5.0	μg/	′L	1	2/26/2004 2:16:00 PM	
Qualifiers: *	Value exceeds Maximi	um Contaminant I	evel	В	3 /	Analyte detected in the	ne associated Method Blank	
BRL	Below Reporting Limit		8850	Е		Value above quantitation range		
Н	Holding times for prep		exceeded	J		Analyte detected below quantitation limits		
N	Analyte not NELAC co		100.00 (100.00	P			fication pending Page 7 of	
	it Reporting Limit	44		s S		Snike Recovery outsi	de accepted recovery limits	

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

Analyses	Result	Rpt. Limit	Qual U	nits	DF	Date Analyzed
TCL VOLATILE ORGANICS SW8260		260B			Analyst: TMP	
1,1,2-Trichloroethane	BRL	5.0	μд	/L	1	2/26/2004 2:16:00 PM
1,1-Dichloroethane	BRL	5.0	þд	/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	μд	/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	μд	/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	μд	'L	1	2/26/2004 2:16:00 PM
1,4-Dichlorobenzene	BRL	5.0	рд/	'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	µд/	'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/		1	2/26/2004 2:16:00 PM
Bromoform	BRL	5.0	μg/		1	2/26/2004 2:16:00 PM
Bromomethane	BRL	5.0	μд/		1	2/26/2004 2:16:00 PM
Carbon disulfide	BRL	5.0	µg/		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/		1	2/26/2004 2:16:00 PM
Chloroethane	BRL	10	μg/		1	2/26/2004 2:16:00 PM
Chloroform	BRL	5.0	μg/		1	2/26/2004 2:16:00 PM
Chloromethane	BRL	10	μg/		ì	2/26/2004 2:16:00 PM
cis-1,2-Dichloroethene	BRL	5.0	μg/		1	2/26/2004 2:16:00 PM
cis-1,3-Dichloropropene	BRL	5.0	μg/		1	2/26/2004 2:16:00 PM
Cyclohexane	BRL	5.0	μg/		1	2/26/2004 2:16:00 PM
Dibromochloromethane	BRL	5.0	. с µg/		1	2/26/2004 2:16:00 PM
Dichlorodifluoromethane	BRL	10	μg/		1	2/26/2004 2:16:00 PM
Ethylbenzene	BRL	5.0	μg/		1	2/26/2004 2:16:00 PM
Freon-113	BRL	10	μg/		1	2/26/2004 2:16:00 PM
Isopropylbenzene	BRL	5.0	μg/		4	2/26/2004 2:16:00 PM
m,p-Xylene	BRL	10	μg/i		1	2/26/2004 2:16:00 PM
Methyl acetate	BRL	5.0	μg/I		1	2/26/2004 2:16:00 PM
Methyl tert-butyl ether	BRL	5.0	μg/I		1	2/26/2004 2:16:00 PM
Methylcyclohexane	BRL	5.0	μg/I		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/I		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 l	Maximum Contaminant Le	vel	В	Analy	te detected in the	ne associated Method Blank
BRL Below Reporting			E		above quantita	
201 DAY 10 197	or preparation or analysis e	xceeded	J		- 10 mm m	w quantitation limits
N Analyte not NE	6 3 50	Acceded	P			fication pending Page 8 of
Rpt Limit Reporting Limit			S	C-11	Description Certifi	de accepted recovery limits

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

Analyses	Result	Rpt. Limit Q	ual Units	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260	В		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	୍ୟ	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

Qı	ıali	ifie	rs:

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

- Analyte detected in the associated Method Blank В
- E Value above quantitation range
- Analyte detected below quantitation limits J
- NELAC analyte certification pending $\ Page\ 9$ of 16 Spike Recovery outside accepted recovery limits P

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

Analyses			Result	Rpt. Limit	Qual	Units	DF	Date Analyzed
METALS,	TOTAL			SW6	010B			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	9		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	9	mg/L	1	2/26/2004 12:01:00 AM
MERCURY,	TOTAL			SW7	470A			Analyst: CDW
Mercury			BRL	0.00020		mg/L	1	2/27/2004 10:25:00 AM
POLYARON	MATIC H	YDROCARBONS		SW8	270C			Analyst: YH
Naphthalen		, , o o o	BRL	10		μg/L	1	2/25/2004 9:04:00 PM
Acenaphthy			BRL	10		μg/L	1	2/25/2004 9:04:00 PM
1-Methylnar			BRL	10	33	μg/L	1	2/25/2004 9:04:00 PM
2-Methylnar			BRL	10		μg/L	1	2/25/2004 9:04:00 PM
Acenaphthe			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
Phenanthre	ne		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
Fluoranthen			BRL	10		ug/L	1	2/25/2004 9:04:00 PM
Pyrene			BRL	10		ug/L	1	2/25/2004 9:04:00 PM
Benz(a)anth	racene		BRL	10		лд/L	1	2/25/2004 9:04:00 PM
Chrysene	iidociio		BRL	10		ug/L	1	2/25/2004 9:04:00 PM
Benzo(b)flue	oranthene		BRL	10		ug/L	1	2/25/2004 9:04:00 PM
Benzo(k)fluo			BRL	10		ıg/L	1	2/25/2004 9:04:00 PM
			BRL	10			1	2/25/2004 9:04:00 PM
Benzo(a)pyr Dibenz(a,h)a		2	BRL	10		ıg/L	1	2/25/2004 9:04:00 PM
		B	BRL	10		.g/L	1	2/25/2004 9:04:00 PM
Benzo(g,h,i)			BRL			ıg/L		2/25/2004 9:04:00 PM
Indeno(1,2,3				10		ug/L	1	
	obenzene		71.7	32.3-136		%REC	1	2/25/2004 9:04:00 PM
	luorobiphe	15	75.4	37-135		%REC	1	2/25/2004 9:04:00 PM
Surr: 4-16	erphenyl-d	14	80.4	21.9-145	8	%REC	1	2/25/2004 9:04:00 PM
CL VOLAT		ANICS		SW82				Analyst: TMP
1,1,1-Trichlo	oroethane		BRL	5.0	Ļ	ıg/L	1	2/26/2004 2:41:00 PM
1,1,2,2-Tetra	achloroeth	ane	BRL	5.0	H	ıg/L	1	2/26/2004 2:41:00 PM
Qualifiers:	*	Value exceeds Maximum	Contaminant I	_evel		В	Analyte detected in the	he associated Method Blank
92	BRL	Below Reporting Limit				E	Value above quantita	
	Н	Holding times for prepara	tion or analysis	exceeded		J	55.0	ow quantitation limits
	N	Analyte not NELAC certi				P		fication pendingPage 10 of
		Reporting Limit	neres Artifica			S		de accepted recovery limits

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

Analyses		Result	Rpt. Limit	Qual Unit	s DF	Date Analyzed
TCL VOL	ATILE ORGANICS	*		260B		Analyst: TMF
1,1,2-Tric	chloroethane	BRL	5.0	μg/L	1	2/26/2004 2:41:00 PM
1,1-Dichl	oroethane	BRL	5.0	µg/L	1	2/26/2004 2:41:00 PM
1,1-Dichle	oroethene	BRL	5.0	μg/L	1	2/26/2004 2:41:00 PM
1,2,4-Tric	chlorobenzene	BRL	5.0	μg/L	1	2/26/2004 2:41:00 PM
1,2-Dibro	mo-3-chloropropane	BRL	5.0	μg/L	1	2/26/2004 2:41:00 PM
1,2-Dibro	moethane	BRL	5.0	μg/L	1	2/26/2004 2:41:00 PM
1,2-Dichlo	orobenzene	BRL	5.0	μg/L	1	2/26/2004 2:41:00 PM
1,2-Dichid	proethane	BRL	5.0	μg/L	1	2/26/2004 2:41:00 PM
1,2-Dichlo	propropane	BRL	5.0	μg/L	1	2/26/2004 2:41:00 PM
1,3-Dichlo	probenzene	BRL	5.0	μg/L	1	2/26/2004 2:41:00 PM
1,4-Dichlo	probenzene	BRL	5.0	μg/L	1	2/26/2004 2:41:00 PM
2-Butanor	ne	BRL	10	μg/L	1	2/26/2004 2:41:00 PM
2-Hexano	ne	BRL	10	μg/L	1	2/26/2004 2:41:00 PM
4-Methyl-2	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
Bromodic	nloromethane	BRL	5.0	μg/L	1	2/26/2004 2:41:00 PM
Bromoform	n	BRL	5.0	μg/L	1	2/26/2004 2:41:00 PM
Bromome	thane	BRL	5.0	μg/L	1	2/26/2004 2:41:00 PM
Carbon dis	sulfide	BRL	5.0	μg/L	1	2/26/2004 2:41:00 PM
Carbon te	trachloride	BRL	5.0	μg/L	1	2/26/2004 2:41:00 PM
Chloroben	zene	BRL	5.0	μg/L	1	2/26/2004 2:41:00 PM
Chloroetha	ane	BRL	10	μg/L	1	2/26/2004 2:41:00 PM
Chloroforn	1	BRL	5.0	μg/L	1	2/26/2004 2:41:00 PM
Chloromet	hane	BRL	10	μg/L	1	2/26/2004 2:41:00 PM
cis-1,2-Dic	hloroethene	BRL	5.0	μg/L	1	2/26/2004 2:41:00 PM
cis-1,3-Dic	hloropropene	BRL	5.0	μg/L	1	2/26/2004 2:41:00 PM
Cyclohexa		BRL	5.0	μg/L	1	2/26/2004 2:41:00 PM
NAME OF TAXABLE PARTY OF TAXABLE PARTY.	loromethane	BRL	5.0	μg/L	1	2/26/2004 2:41:00 PM
Dichlorodif	luoromethane	BRL	10	μg/L	1	2/26/2004 2:41:00 PM
Ethylbenze		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
Isopropylbe	enzene	BRL	5.0	μg/L	i	2/26/2004 2:41:00 PM
m,p-Xylene		BRL	10	μg/L	1	2/26/2004 2:41:00 PM
Methyl ace		BRL	5.0	μg/L	i	2/26/2004 2:41:00 PM
	-butyl ether	BRL	5.0	μg/L	1	2/26/2004 2:41:00 PM
Methylcyck		BRL	5.0	μg/L	· 1	2/26/2004 2:41:00 PM
Methylene		BRL	5.0	μg/L	4	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	i	2/26/2004 2:41:00 PM
ualifiers:	Value exceeds Max	imum Contaminant Leve		D	Analyte detected := 4	na accordated Mathed Dia-1
	BRL Below Reporting L	2'	-1	B E	Charles of the Control of the Contro	he associated Method Blank
		reparation or analysis ex-	caeded		Value above quantita	AND DESCRIPTION OF THE PROPERTY OF THE PROPERT
	N Analyte not NELA	The state of the s	cccuca	J	Analyte detected belo	fication pendingPage 11 of
	in Analyte not inclass	Celtified		P	NELAU analyte certi	lication pendings 11 c

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

Analyses	Result	Rpt. Limit Q	ual Units	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260	В		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

0	 :::	ers:

- Value exceeds Maximum Contaminant Level BRL Below Reporting .imit H Holding times for preparation or analysis exceeded Analyte not NELAC certified Rpt Limit Reporting Limit
- Analyte detected in the associated Method Blank В
- E Value above quantitation range
- Analyte detected below quantitation limits J
- NELAC analyte certification pending Page 12 of 16 Spike Recovery outside accepted recovery limits P

Date: 01-Mar-04

CLIENT:

Environmental Strategies Corporation, LLC

Client Sample ID: TRIP BLANK

Lab Order:

0402A27

Project:

National Smelting & Refining

Collection Date: 2/24/2004

Lab ID:

0402A27-005

Matrix: AQUEOUS

Analyses		Result	Rpt. Limit	Qual	Units	DF	Date Analyzed
TCL VOLATILE ORGAN	IICS		SW8	260B			Analyst: TMF
1,1,1-Trichloroethane		BRL	5.0		μg/L	1	2/26/2004 12:36:00 PM
1,1,2,2-Tetrachloroethane	N .	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-chloroprop	ane	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 5.0		µg/L µg/L	1	2/26/2004 12:36:00 PM
Methylene chloride	<u> </u>	BRL	5.0		µg/L	i	2/26/2004 12:36:00 PM
Out Manual Programme		C	21			Analysis data and in the	no apposinted Math - 1 DI 1
	e exceeds Maximur	n Contaminant Lev	/ei		В	(0.50)	tion range
	w Reporting Limit				E	Value above quantita	9.70
H Hold	ling times for prepar yte not NELAC cer		xceeded		J P	Analyte detected belo	ow quantitation limits fication pendingPage 13 of
N Anal							

Date: 01-Mar-04

CLIENT:

Environmental Strategies Corporation, LLC

Client Sample ID: TRIP BLANK

Lab Order:

0402A27

Collection Date: 2/24/2004

Project:

National Smelting & Refining

Lab ID:

0402A27-005

Matrix: AQUEOUS

Analyses	Result	Rpt. Limit	Qual Units	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW826	60B		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

Q	11	al	if	in	re	
v	u			,,	13	•

- 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

- В Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- NELAC analyte certification pending Page 14 of 16 Spike Recovery outside accepted recovery limits P
- S

Date: 01-Mar-04

CLIENT:

Environmental Strategies Corporation, LLC

Client Sample ID: 540W

Lab Order:

0402A27

Collection Date: 2/24/2004 2:55:00 PM

Project:

National Smelting & Refining

Lab ID:

0402A27-006

Matrix: SOIL

Analyses	Res	ult Rpt. Limit	Qual Unit	s DF	Date Analyzed
POLYCHLORINATE	D BIPHENYLS	sw	8082		Analyst: JMZ
Aroclor 1016	В	RL 33	μg/Kg	1	2/27/2004 1:48:00 PM
Aroclor 1221	В	RL 33	μg/Kg	1	2/27/2004 1:48:00 PM
Aroclor 1232	В	RL 33	μg/Kg	, 1	2/27/2004 1:48:00 PM
Aroclor 1242	В	RL 33	μg/Kg	1	2/27/2004 1:48:00 PM
Aroclor 1248	В	RL 33	μg/Kg	1	2/27/2004 1:48:00 PM
Aroclor 1254	В	RL 33	µg/Kg	1	2/27/2004 1:48:00 PM
Aroclor 1260	В	RL 33	µg/Kg	1	2/27/2004 1:48:00 PM
Surr: Decachlorobing	phenyl 92	2.9 20.9-163	%RE	1	2/27/2004 1:48:00 PM
Surr: Tetrachloro-m	-xylene 88	3.5 28.6-126	%REG	2 1	2/27/2004 1:48:00 PM
METALS, TOTAL		SW6	010B		Analyst: CDW
Antimony	12	2.8 4.54	mg/Kg	g 1	2/25/2004 8:54:00 PM
Arsenic	5.	24 4.54	mg/Kg	g 1	2/25/2004 8:54:00 PM
Cadmium	2.	68 2.27	mg/Kg	g 1	2/25/2004 8:54:00 PM
Chromium	1	30 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	11	07 2.27	mg/Kg	, 1	2/25/2004 8:54:00 PM
Lead	6:	21 4.54	mg/Kg	j 1	2/25/2004 8:54:00 PM
Manganese	134	40 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	BF	RL 2.27	mg/Kg	, 1	2/25/2004 8:54:00 PM
Thallium	BF	RL 4.54	mg/Kg	1	2/25/2004 8:54:00 PM
Zinc	16	57 4.54	mg/Kg	1	2/25/2004 8:54:00 PM
OTAL MERCURY		SW7	10100 G11890V		Analyst: SSS
Mercury	BF	RL 0.0899	mg/Kg	1	2/28/2004
OLYAROMATIC HY		SW8	270C		Analyst: YH
Naphthalene	BF		μg/Kg	1	2/26/2004 11:01:00 PM
Acenaphthylene	BF	RL 330	μg/Kg	1	2/26/2004 11:01:00 PM
1-Methylnaphthalene	BF		µg/Кg	1	2/26/2004 11:01:00 PM
2-Methylnaphthalene	BR	RL 330	μg/Kg	1	2/26/2004 11:01:00 PM
Acenaphthene	BR		µg/Kg	1	2/26/2004 11:01:00 PM
Fluorene	BR	RL 330	μg/Kg	1	2/26/2004 11:01:00 PM
Phenanthrene	BR	RL 330	μg/Kg	1	2/26/2004 11:01:00 PM
Anthracene	* BR	L 330	μg/Kg	1	2/26/2004 11:01:00 PM
Fluoranthene	BR	L 330	μg/Kg	1	2/26/2004 11:01:00 PM
Pyrene	BR		μg/Kg	1	2/26/2004 11:01:00 PM
Benz(a)anthracene	BR		μg/Kg	1	2/26/2004 11:01:00 PM
Chrysene	BR		µg/Kg	1	2/26/2004 11:01:00 PM
Benzo(b)fluoranthene	BR	L 330	μg/Kg	1	2/26/2004 11:01:00 PM
Benzo(k)fluoranthene	BR	L 330	μg/Kg	1	2/26/2004 11:01:00 PM
Qualifiers: *	Value exceeds Maximum Contamin	nant Level	В	Analyte detected in	the associated Method Blank
BRL	Below Reporting Limit		Е	Value above quantit	ation range
H	lolding times for preparation or an	alysis exceeded	J	Analyte detected bel	ow quantitation limits
N .	Analyte not NELAC certified		P	NELAC analyte cert	ification pendingPage 15 of
	Reporting Limit		S	Spike Recovery outs	side accepted recovery limits

Date: 01-Mar-04

CLIENT:

Environmental Strategies Corporation, LLC

Client Sample ID: 540W

Lab Order:

0402A27

Collection Date: 2/24/2004 2:55:00 PM

Project:

National Smelting & Refining

Lab ID:

0402A27-006

Matrix: SOIL

Analyses	Result	Rpt. Limit Q	ual Units	DF	Date Analyzed
POLYAROMATIC HYDROCARBONS		SW8270	C		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/Кg	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

Qua	li	fie	rs
-----	----	-----	----

- 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 pendingPage 16 of 16
- S Spike Recovery outside accepted recovery limits

Environmental Strategies Corporation, LLC 0402A27 CLIENT:

Work Order:

National Smelting & Refining

Project:

ANALYTICAL QC SUMMARY REPORT

Date: 01-Mar-04

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

Sample ID LCS-42876	CS-428	376 SampType: LCS	TestCo	TestCode: 6010B_W_T	Units: mg/L		Prep Date:	Prep Date: 2/25/2004		RunNo: 48169	69	
Client ID:		Batch ID: 42876	Test	TestNo: SW6010B	\	1	Analysis Date:	2/26/2004		SeqNo: 902822	822	
Analyte		Result	Pal	SPK value SF	SPK Ref Val	%REC	LowLimit	HighLimit RPD Ref Val	D Ref Val	%RPD	RPDLimit	Qual
Antimony		0.8725	0.0200	•	0	87.2	85	115	-	c		
Arsenic		0.9502	0.0500	τ-	0	95	85	115	o C	o c		
Cadmium		0.9995	0.00500	•	0	100	85	115	0	0 0		
Chromium		0.9933	0.0100	~	0	99.3	82	115	0	0 0		
Cobalt		1.002	0.0200	•	0	100	85	115	0	0		
Copper		0.9787	0.0100	•	0	97.9	85	115	0	· c		
Lead		0.9574	0.0100	-	0	95.7	85	115	0 0	o c		
Manganese		0.9859	0.00500	•	0	98.6	82	115	0	· c		
Nickel		0.989	0.0200	-	0	98.9	85	115	c	» c		
Silver		0.09103	0.0100	0.1	0	91	85	115	C	o c		
Thallium		0.9965	0.0200	•	0	7.66	82	115	0 0	0 0		
Zinc		0.9998	0.0200	~	0	100	85	115	0	0		
Qualifiers:	В	Analyte detected in the associated Method Blank	nod Blank	BRL Below Re	Below Reporting Limit			E Valu	Value above quantitation range	tation range		
	н	Holding times for preparation or analysis exceeded	is exceeded	J Analyte d	Analyte detected below quantitation limits	itation limi	ts	N Anal	Analyte not NELAC certified	Certified		
	Я	RPD outside accepted recovery limits		S Spike Rec	Spike Recovery outside accepted recovery limits	ted recover	v limits				Pas	Page 1 of 20
		S. Lander		FIG. 6-12-6-12-12-12-12-12-12-12-12-12-12-12-12-12-								,

Value above quantitation range Analyte not NELAC certified

ы Z

Spike Recovery outside accepted recovery limits

BRL Below Reporting Limit

J Analyte detected below quantitation limits

S Spike Recovery outside accepted recovery 1

Holding times for preparation or analysis exceeded Analyte detected in the associated Method Blank

ВНЖ

Qualifiers:

RPD outside accepted recovery limits

Environmental Strategies Corporation, LLC

0402A27 Work Order:

CLIENT:

National Smelting & Refining

Project:

ANALYTICAL QC SUMMARY REPORT

Sample ID 0402A18-001BMS	SampType: MS	TestCo	TestCode: 6010B_W_T	ſ Units: mg/L		Prep Date:	9: 2/25/2004	04	O Ap.		
Client ID:	Batch ID: 42876	Tag	TestNo. SW6010B					ţ	Nully0. 48146	146	
		<u> </u>	30100 SW 0010B		`	Analysis Date:	e: 2/25/2004	40	SeqNo: 902453	2453	
Analyte	Result	Pal	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.841	0.0200	-	0	84.1	75	125	c			
Arsenic	0.9905	0.0500	-	0	66	7.	3 4	O	o (
Cadmium	1.021	0.00500	*	0 0000	3 6) i	C71	O	0		
Chromium	101	0.0000	- •	0.00039	70.	(۲)	125	0	0		
Cobalt	410.1	0.0100	<u>√0</u> 50 8	0.00515	101	75	125	0	0		
Copar	1.0.1	0.0200	τ-	0	101	75	125	0	0		
Copper	1.054	0.0100	•	0.06845	98.6	75	125	С	· c		
Lead	0.9444	0.0100	•	0.00542	93.9	75	125) C			
Manganese	1.007	0.00500	-	0.00952	8 66	75	3 7 7 7 7 7		o (
Nickel	0.9938	0.0200	•	c	00 4	5 17	24.	O	o (
Silver	0.08684	0.0100	0.1	, c	. a	2 1	מיני	> (0		
Thallium	1 032	0000	•		0.5	0	173	0	0		
7,00	200:	0.0200	-	0	103	75	125	0	0		
71115	1.33	0.0200	~	0.3009	103	75	125	0	0		
Sample ID 0402A18-001BDUP	SampType: DUP	TestCo	TestCode: 6010B_W_T	. Units: mg/L		Prep Date:	3: 2/25/2004	94	RunNo. 48146	46	
Client ID:	Batch ID: 42076	H	TO			*3 S		28	2	o f	
	Date: 10. 420/0	ıesı	estivo: SW6010B		•	Analysis Date:	2/25/2004	74	SeqNo: 902452	452	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	BRL	0.0200	0	0	c		0				
Arsenic	BRL	0.0500	0	0	· c	o c			o (50	
Cadmium	BRL	0.00500	0	0	· c	o c	> c	0 0000	0 (20	
Chromium	BRL	0.0100	C	· c	, c	o c	> 0	0.0003	O	20	
Cobalt	BRL	0.0200	0	0 0	o c	5 C	0 0	0.00515	0	20	
Copper	0.06693	0.0100	0) C	o c	o c	> 0	0 2000	0 -	20	
Lead	BRL	0.0100	c	, ,	o c	o (> (0.00845	2.25	20	
Manganese	0.00968	0.0500		> 0	0 0	o (0	0.00542	0	20	
Nickel		00000	o (0	0	0	0	0.00952	1.67	20	
- Services	ביים	0.0200	0	0	0	0	0	0	0	20	
	מאר	0.0100	0	0	0	0	0	0	0	20	
	BRL	0.0200	0	0	0	0	0	0	C	200	
ZIIIC	0.2979	0.0200	0	0	0	0	0	0.3009	0.989	20	
The second secon											

CLIENT: Environmental Strategies Corporation, LLC

Work Order: 0402A27

Project: National Smelting & Refining

ANALYTICAL QC SUMMARY REPORT

0											
Sample ID MB-42882	SampType: MBLK	TestCo	TestCode: 8270_PAH_W Units: µg/L	' Units: µg/L		Prep Date:	2/25/2004	04	RunNo: 48174	4	
Client ID;	Batch ID: 42882	Test	TestNo: SW8270C		`	Analysis Date:	3. 2/25/2004	04	SeqNo: 903023	23	
Analyte	Result	Pal	SPK value SF	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	J. imit	<u></u>
1-Methylnaphthalene	BRL	10									i i
2-Methyinaphthalene	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	20	0	73.9	37	135	Ċ	ć		
Surr: 4-Terphenyl-d14	39.35	0	50	C	78.7	0 10	2 4	0	0 (
Surr: Nitrobenzene-d5	35.38	0	20	0	70.8	32.3	136	o c	0 0		
Sample ID LCS-42882	SampType: LCS	TestCo	TestCode: 8270_PAH_W	Units: µg/L		Prep Date:	2/2		RimNo: 48174		
Client ID:	Batch ID: 42882	Test	TestNo: SW8270C		1	Analysis Date:		04	SeqNo: 903024	24	
Analyte	Result	PQL	SPK value SP	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Z Z
Acenaphthene	44.91	10	50	0	89.8	57	120		1		
Acenaphthylene	51.91	10	50	0	104	57.4	130	o c	0 0		
Anthracene	45.77	10	20	0	91.5	53.8	145	· c			
Benz(a)anthracene	47.63	10	50	0	95.3	60.3	132	· c	> C		
Benzo(a)pyrene	45.38	10	20	0	8.06	49.3	141	0	0 0		
	Analyte detected in the associated Method Blank	Slank	BRL Below Rep	Below Reporting Limit				Value above quantitation range	itation range		
	Holding times for preparation or analysis exceeded	ceeded	J Analyte de	Analyte detected below quantitation limits	titation limi	ts	Z	Analyte not NEI AC certified	Certified		
R RPD out	RPD outside accepted recovery limits		S Spike Reco	Spike Recovery outside accepted recovery limits	pted recover	y limits				Page	Page 3 of 20

Environmental Strategies Corporation, LLC 0402A27

CLIENT: Work Order:

National Smelting & Refining Project:

ANALYTICAL QC SUMMARY REPORT

Sample ID LCS-42882	SampType: LCS	TestCoc	Je: 8270_PAH	TestCode: 8270_PAH_W Units: µg/L		Prep Date:	2/25/2004	94	RunNo: 48174	74	
Client ID:	Batch ID: 42882	Test	TestNo: SW8270C			Analysis Date:	2/25/2004	24	SeqNo: 903024	024	080
Analyte	Result	Pal	SPK value	SPK Ref Val	%REC	LowLimit F	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(b)fluoranthene	46.52	10	50	0	93	56.5	131	0	C		
Benzo(g,h,i)perylene	46.18	10	20	0	92.4	41.9	144	0	0		
Benzo(k)fluoranthene	46.15	10	20	0	92.3	50.6	137	0	0		
Chrysene	46.88	10	20	0	93.8	62.5	129	0	0		
Dibenz(a,h)anthracene	47.1	10	50	0	94.2	41.4	141	0	0		
Fluoranthene	44.36	10	50	0	88.7	66.7	128	0	0		
Fluorene	44.44	10	20	0	88.9	62.4	124	0	0		
Indeno(1,2,3-cd)pyrene	44.5	10	20	0	89	46.7	138	0	0		
Naphthalene	42.22	10	50	0	84.4	20	120	0	0		
Phenanthrene	46.15	10	50	0	92.3	66.8	124	0	0		
Pyrene	48.89	10	50	0	8.76	62.4	127	0	, ,		
Surr: 2-Fluorobiphenyl	42.11	0	20	0	84.2	37	135	0	0		
Surr: 4-Terphenyl-d14	43.86	0	50	0	87.7	21.9	145	0	0		
Surr: Nitrobenzene-d5	39.14	0	20	0	78.3	32.3	136	0	0		
Sample ID 0402A27-001BMS	SampType: MS	TestCoo	TestCode: 8270_PAH_W	1_W Units: µg/L		Prep Date:	2/25/2004	04	RunNo: 48174	74	
Client ID: MW-3	Batch ID: 42882	Test	TestNo: SW8270C			Analysis Date:	2/25/2004	04	SeqNo: 903026	026	
Analyte	Result	Pol	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	46.59	5	50	0	93.2	47.9	127	0	0		
Acenaphthylene	52.14	1	20	0	104	52.5	133	0	0		
Anthracene	48.04	10	90	0	96.1	55	140	0	0		
Benz(a)anthracene	49.84	10	50	0	99.7	56	131	0	0		
Benzo(a)pyrene	48.85	10	50	0	7.76	49.3	135	0	0		
Benzo(b)fluoranthene	46.56	10	50	0	93.1	48.2	133	0	0		
Benzo(g,h,i)perylene	49.31	10	50	0	98.6	42.4	141	0	0		
Benzo(k)fluoranthene	53.05	10	90	0	106	44.3	134	0	0		
Chrysene	49.69	10	90	0	99.4	54.5	130	0	0		
Dibenz(a,h)anthracene	50.44	10	90	0	101	42.7	138	0	0		
Fluoranthene	47.1	10	50	0	94.2	59.9	128	0	0		
Fluorene	46.42	10	20	0	92.8	56.4	128	0	0		
	Analyte detected in the associated Method Blank	lank	BRL Below	Below Reporting Limit			В	Value above quantitation range	ntitation range		
H Holding time	Holding times for preparation or analysis exceeded	pepeo		Analyte detected below quantitation limits	intitation lim	its	Z	Analyte not NELAC certified	AC certified	į	
R RPD outside	RPD outside accepted recovery limits		S Spike	Spike Recovery outside accepted recovery limits	epted recove	ry limits				Pag	Page 4 of 20

Environmental Strategies Corporation, LLC 0402A27 CLIENT: Work Order:

National Smelting & Refining Project:

ANALYTICAL QC SUMMARY REPORT

82 TestNo: SW8270C Ana sult PQL SPK value SPK Ref Val %REC LC 7.5 10 50 0 94.3 Ana 7.5 10 50 0 96.9 96.9 7.9 0 50 0 92.1 Ana 1.2 0 50 0 92.1 Ana 1.12 0 50 0 92.1 Ana 1.12 0 50 0 92.1 Ana 2.12 0 50 0 83.5 Ana 2.12 0 50 0 87.6 C 1.13 10 50 0 87.9 R.5 1.14 10 50 0 87.9 R.5 1.25 10 50 0 87.0 R.5 2.2 10 50 0 87.0 R.5 2.3 10 50 0 <th>Sample ID 0402A27-001BMS</th> <th>27-001BMS</th> <th>SampType: MS</th> <th>FestCode</th> <th>TestCode: 8270 PAH W</th> <th>W Units: 110/1</th> <th></th> <th>Drop Date:</th> <th></th> <th></th> <th>i</th> <th></th> <th></th>	Sample ID 0402A27-001BMS	27-001BMS	SampType: MS	FestCode	TestCode: 8270 PAH W	W Units: 110/1		Drop Date:			i		
Part				ŀ	l			rich Date.		40	KunNo: 4817	4	
Comparison Pol. SPK Reif Val SKRE LowLinit High Linit RPD Reif Val SKRE LowLinit High Linit RPD Reif Val SKRE SKRE LowLinit High Linit RPD Reif Val SKRE SK			5atcn ID: 42882	TestNo	SW8270C			Analysis Date:		04	SeqNo: 9030	26	1001
1,23,cd)pyrene	Analyte		Result	Pal	SPK value	SPK Ref Val	%REC		lighLimit	RPD Ref Val		RPDLimit	Oual
Name	Indeno(1,2,3-cd)py	тепе	47.16	10	50	0	94.3	43.5	138				
Protein 48.46 10 50 60 60.2 17.7 10 0	Naphthalene		41.75	10	50	· c	22 22	47.4	2 7	0	o (
1.0 1.0	Phenanthrene		48.46	10	50	o c	0.00	- 6	121	0 (Э (
Uncobigipheny 4379 0 50 0 70 129 0 0 0 0 0 0 0 0 0	Pyrene		50.99		50	o c	90.9	2.00	171	0	0		
Participation Participatio	Surr: 2-Fluorobit	ohenví	43.79		20	o c	20.0	23.7	671	0	0		
MW-3 Barch ID Page 38.12 0 0 92.1 21.9 145 0 0 MW-3 Barch ID Acades and ID Page 38.12 0 0 92.1 21.9 145 0 0 MW-3 Barch ID 42882 TestRocale: 8270 PAH-W Units: pg/L Frep Date: 2525004 90.0027 MW-3 Barch ID 42882 TestNo: SWB270C Frep DAH-M Units: pg/L Frep Date: 2525004 8.2 1252004 8.2 11.0 9.0	Surr: 4-Terphen	VI-d14	46.03		8 6	o (0.70	3,	135	0	0		
MW-3 Batch ID: 42882 TestCode: 8270_PAH_W Units: µg/L Free Date: Pree Dat	Surr. Nitrohenze	J. C	20.00	>	00 i	o 1	92.1	21.9	145	0	0		
MW-3 Bartch ID: 42882 TestCode: 8270_PAH_W Units: pg/L Prep Date: 2125/2004 Runku: 48774 Prep Date: 2125/2004 Runku: 48774 MW-3 Bartch ID: 42882 TestRo: SW8270C SPK kall we specified SPK kall we specified SPK kall we specified SPK kall we specified Prep Date: 2125/2004 Seque: 2903027 Annaly and a specified Annaly and a specified or contributed Annaly and a	Carl. Ividobeliza	20-01	38.12	5	20	0	76.2	32.3	136	0	0		
Mary Batch ID: 42882 TestNo: SW8270G Analysis Date: 2155/204 Sport Not SW8270G Analysis Date: 2155/204 Sport Not SW8270G Analysis Date: 2155/204 Sport Not Sw8270G Analysis Date: 2155/204 Analysis Analysis exceeded in the associated Method Blank Bolt Not Sw8270G Analysis Analysis exceeded Analysis area Analysis exceeded Ana		27-001BMSD		FestCode	: 8270_PAH	1		Prep Date:	2/25/20	04		4	
House Hous			Batch ID: 42882	TestNo	SW8270C			Analysis Date:		04	SedNo: 9030	27	
41.5 10 50 0 83 47.9 127 46.59 11.6 19.6 43.1 43.1 44.29 11.6 19.6 43.1 43.1 44.35 11.6 19.8 43.1 43.1 44.35 11.6 50 0 86.3 52.5 133 52.14 10.8 19.8 43.1 42.3 50.1 40.8 49.8 4 12.6 19.8 43.1 42.2 42.2 10 50 0 87.9 86.3 55 131 49.84 12.6 19.8 19.8 43.2 42.2 44.22 10 50 0 87.9 44.3 134 42.3 19.8 50.4 44.3 10.9 50 0 87.7 54.5 130 49.69 12.5 19.8 42.1 44.3 10.9 50 0 87.7 54.5 130 49.69 12.5 19.8 42.1 41.3 41.3 50 0 87.7 54.5 138 50.4 41.0 50 0 87.7 54.5 138 50.4 41.0 50 0 87.7 54.5 138 50.4 41.0 50 0 87.7 54.5 138 50.4 41.0 50 0 87.7 54.5 138 50.4 41.0 50 0 87.7 54.5 138 50.4 41.0 50 0 87.7 54.5 138 50.4 41.0 50 0 87.7 54.5 138 50.4 41.0 50 0 87.7 54.5 138 50.4 41.0 50 0 87.7 54.5 138 50.4 41.0 50 0 87.7 54.5 138 50.4 41.0 50 0 87.7 54.5 138 50.4 41.0 50 0 87.7 54.5 138 50.4 41.0 50 0 87.7 54.5 138 50.4 41.0 50 0 87.7 54.5 138 50.4 41.0 50 0 87.7 54.5 138 50.4 41.0 50 0 87.7 54.5 138 50.4 41.0 50 0 87.7 54.5 138 50.9 50 0 87.7 54.5 138 50.9 50 0 87.7 54.5 138 50.9 50 0 87.7 54.5 138 50.9 50 0 87.7 54.5 138 50.9 50 0 87.7 54.5 138 50.9 50 0 87.7 54.5 138 50.9 50 0 87.7 54.5 138 50.9 50 0 87.7 54.5 138 50.9 50 0 87.7 54.5 138 50.9 50 0 87.7 54.5 138 50.9 50 0 87.7 54.5 138 50.9 50 0 87.7 54.5 138 50.9 50 0 87.7 54.5 138 50.9 50 0 87.7 54.5 138 50.9 50 0 87.7 54.5 138 50.9 50 0 87.7 54.5 138 50.9 50.9 50 0 87.7 50.0 50.0 50.0 50.0 50.0 50.0 50.0 5	Analyte		Result	PaL	SPK value	SPK Ref Val	%REC		ighLimit	RPD Ref Val		3PDLimit	Qual
46.78	Acenaphthene		41.5	10	50	0	83	47.9	127	46.50	9 77	0	
43.13 10 50 86.3 55 140 42.1 10.5 10.2 11.1 49.3 11.2 14.1 10.2 11.2 14.3 14.3 14.3 14.3 14.3 14.3 14.3 14.3	Acenaphthylene		46.78	10	20	0	93.6	52.5	133	52.14	D. 0	D 0.0	
43.95 10 50 0 87.9 56 131 49.84 12.6 12.6 12.2 12.2 12.2 12.2 12.2 12.2	Anthracene		43.13	10	20	0	86.3	55	140	48.04	10.0	0. 6. 0. 6.	
42.32	Benz(a)anthracene	20	43.95	10	50	0	87.9	5.5	13.5	10.01	10.0	- 4 20 0 4. 0	
42.74 10 50 0 8.55 4.23 13 46.56 8.56 4.34 14.1 49.31 10.9 50 44.2 4.1 41 49.31 10.9 50 43.95 14.3 44.3 134 49.31 10.9 50 43.95 44.3 134 49.31 10.9 50 43.85 14.3 134 49.31 10.9 50 42.14 10.9 50 0 87.7 54.5 138 50.44 10.9 20 42.14 10.9 50 0 84.3 59.9 12.8 46.42 10.9 20 42.14 10.9 50 0 84.3 59.9 12.8 46.42 10.9 20 42.14 10.9 50 0 84.3 59.9 12.8 46.42 10.9 50 0 84.3 59.9 12.8 46.42 10.9 50 0 84.3 59.9 12.8 46.42 10.9 50 0 87.7 56.4 12.8 46.42 10.9 50 0 87.7 56.4 12.8 46.42 10.9 50 0 87.8 60.9 12.8 46.42 10.9 50 0 87.8 60.2 12.9 43.66 10.4 18.8 139.1 50.9 14.6 18.8 139.1 50.9 14.6 18.8 139.1 50.9 14.6 18.8 139.1 50.9 14.6 18.8 139.1 50.9 14.6 18.8 139.1 50.9 14.6 18.8 139.1 50.0 10.0 10.9 14.9 14.9 14.9 14.9 14.9 14.9 14.9 14	Benzo(a)pyrene		42.32	10	50	0	84.6	49.3	- 12 - 12 - 13	10.04	14.0	9.6	
44.22 10 50 0 88.4 42.4 141 49.1 10.9 50 43.95 10 50 0 87.9 44.3 134 53.05 18.8 23 43.86 10 50 0 87.7 54.5 130 49.69 12.5 19 42.14 10 50 0 87.7 54.5 138 50.44 10.9 20 42.14 10 50 0 87.7 54.5 138 50.44 10.9 20 42.14 10 50 0 87.7 56.4 128 46.42 11.6 20 43.7 10 50 0 87.7 56.4 128 46.42 11.6 20 43.32 10 50 0 87.3 60.2 127 41.75 5.99 24 43.66 10 50 0 87.3 60.2 127 41.75 5.99 24 43.60 10 87.8 57 129 50.99 14.6 18 44.07 10 50 0 88.1 55.7 129 50.99 14.6 18 44.07 10 50 0 78.2 37 136 43.79 0 45.04 10.4 18 44.07 10 50 0 78.2 37 136 38.12 0 45.04 10.4 18 44.07 10 50 0 78.2 37 129 50.99 14.6 18 45.04 10.4 18 46.07 10 50 0 78.2 37 136 38.12 0 47.14 39.82 0 50 0 70.9 32.3 136 38.12 0 48.04 10.4 18 49.04 10.4 18 49.04 10.4 18 49.04 10.4 18 49.04 10.4 18 49.04 10.4 18 40.04 10.4	Benzo(b)fluoranthe	ine	42.74	10	20	0	85.5	48.2	133	46.56	5.4- 0	9.6	
43.95 10 50 0 87.9 44.3 134 5.05 10.9 2.0 43.86 10 50 0 87.7 54.5 130 49.69 12.5 19.9 20 42.14 10 50 0 86.3 59.9 128 50.44 10.9 20 42.14 10 50 0 86.3 59.9 128 47.1 11.1 19.9 20 43.7 10 50 0 82.7 56.4 128 46.42 11.6 20 39.32 10 50 0 87.4 43.5 138 50.9 14.6 10.9 20 43.66 10 50 0 87.7 56.4 128 46.42 11.6 20 43.7 10 50 0 87.7 56.4 128 46.42 11.6 20 44.07 10 50 0 87.3 60.2 127 48.46 10.4 18 14 4.07 10 50 0 88.1 55.7 129 50.99 14.6 18 14 39.82 0 50 0 78.6 21.9 14.5 46.03 0 Analyte detected in the associated Method Blank BRL Below Reporting Limit Analyte accorpted recovery limits Analyte accorpted recovery limits BRL Below Reporting Limit Analyte detected below quantitation limits Analyte not NELAC certified	Benzo(g,h,i)peryler	e.	44.22	10	50	0	88.4	42.4	141	49.30	0.30	77	
thracene 43.86 10 50 0 87.7 54.5 130 50.0 12.5 19 10 10 10 10 10 10 10 10 10 10 10 10 10	Benzo(k)fluoranthe	ne	43.95	10	20	0	87.9	44.3	134	53.05	. o.	20.7	
thracene 45.23 10 50 0 90.5 42.7 138 50.44 10.9 20 42.14 10.9 20 42.14 10.9 20 42.14 10.9 50 0 84.3 59.9 128 47.1 11.1 199 20 41.35 10 50 0 82.7 56.4 128 46.42 11.6 20 39.32 10 50 0 87.4 43.5 138 47.16 7.62 20 20 39.32 10 50 0 87.3 60.2 127 44.75 5.99 24 44.07 10 50 0 88.1 55.7 129 50.99 14.6 18 18 18 18.1 55.7 129 50.99 14.6 18 18 18 18.1 55.7 129 50.99 14.6 18 18 18 18.1 55.7 129 50.99 14.6 18 18 18 18 18 18 18 18 18 18 18 18 18	Chrysene		43.86	10	20	0	87.7	54.5	130	49.69	0.0 7. r.	10.7	
42.14 10 50 0 84.3 59.9 128 47.1 11.1 19.9 24.1 41.35 10 50 0 82.7 56.4 128 46.42 11.6 20 20 39.32 10 50 0 87.3 60.2 127 41.75 5.99 24 43.6 10.4 18.6 10.4	Dibenz(a,h)anthrac	епе	45.23	10	50	0	90.5	42.7	138	50.44	10.0	7.00	
Harry Harr	Fluoranthene		42.14	10	20	0	84.3	59.9	128	47.1	5. 1.	10.7	
All the properties of the pr	Fluorene		41.35	10	20	0	82.7	56.4	128	46.42		20.5	
39.32 10 50 0 78.6 47.1 127 41.75 5.99 24 43.66 10 50 0 87.3 60.2 127 48.46 10.4 18 18 18 19 19 19 19 19	Indeno(1,2,3-cd)py	rene	43.7	10	20	0	87.4	43.5	138	47.16	7.62	20.8	
10 10 10 10 10 10 10 10	Naphthalene		39.32	10	50	0	78.6	47.1	127	41.75	5.99	24.0	
Holding times for preparation or analysis exceeded Holding times for preparation or analysis exceeded Sping of the covery limits Sping of the covery limits Sping of the covery limits Sping shows part of the covery limits Sping shows proper and the covery limits Sping	Phenanthrene		43.66	10	50	0	87.3	60.2	127	48.46	0.00	4 6	
Substitution 39.1 0 50 0 78.2 37 135 43.79 0 0 0 79.6 21.9 145 46.03 0 0 0 79.6 21.9 145 46.03 0 0 0 70.9 32.3 136 38.12 0 0 0 0 0 0 0 0 0	Pyrene		44.07	10	20	0	88.1	55.7	129	50 99	t w	0.0	
Perphenyl-d14 39.82	Surr: 2-Fluorobit	shenyl	39.1	0	50	0	78.2	37	135	43.79	o c	2 0	
robenzene-d5 35.45 0 50 0 70.9 32.3 136 38.12 0 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 Recovery limits S Spike Recovery outside accepted recovery limits	Surr: 4-Terphen	/I-d14	39.82	0	20	0	79.6	21.9	145	46.03	O C	>	
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	Surr: Nitrobenze	ne-d5	35.45	0	20	0	70.9	32.3	136	38.12	0 0	> <	
Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits N Analyte not NELAC certified RPD outside accepted recovery limits S spike Recovery outside accepted recovery limits		Analyte detec	sted in the associated Method Blank		10000	Reporting Limit				and and ante		•	
RPD outside accepted recovery limits S pike Recovery outside accepted recovery limits	H	Holding times	s for preparation or analysis exceed	þ		detected below and	imil moitotit			aide above quair	utation range		
NATE DUISIGE accepted recovery limits Spike Recovery outside accepted recovery limits	2	PPD curteide	annual engineers limits	į		מבוברובת הבוסא לתמו	Mation iiiii	ts		unalyte not NELA	C certified	c	,
	٤	Krd outside	accepted recovery limits			ecovery outside acce	pted recover	y limits				Page	e 5 of 20

Page 6 of 20

Environmental Strategies Corporation, LLC 0402A27 CLIENT:

Work Order:

National Smelting & Refining Project:

ANALYTICAL QC SUMMARY REPORT

Sample ID MD 42000	1										
06071-010-010-010-010-010-010-010-010-010-	Samplybe: MBLK	lestCo	lestCode: 8082_S	Units: µg/Kg		Prep Date:	2/25/2004		RunNo: 48245	45	
Client ID:	Batch ID: 42890	Test	TestNo: SW8082		500.40	Analysis Date:	3: 2/27/2004		SeqNo: 904858	858	
Analyte	Result	Pal	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit RPD	RPD Ref Val	%RPD	RPDI jmit	Ç
Aroclor 1016	BRL	33									gna
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		16.67	0	=======================================	20.9	163	Ċ	c		
Surr: Tetrachloro-m-xylene	14.22	0	16.67	0	85.3	28.6	126	0 0	0		
Sample ID LCS-42890	SampType: LCS	TestCo	TestCode: 8082_S	Units: µg/Kg		Prep Date:	2/25/2004		BinNo: 48245	T T	
Client ID:	Batch ID: 42890	Test	TestNo: SW8082			Analysis Date:			SeqNo: 904859	359	
Analyte	Result	Pal	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit RPD	RPD Ref Val	%RPD	RPDLimit	Jeilo
Aroclar 1016	147	33	166.7	0	88.2	63.1	124	0			
Aroclor 1260	146.3	33	166.7	0	87.8	747	120	o c			
Surr: Decachlorobiphenyl	18.18		16.67	0	109	20.9	163	o c	0 0		
Surr: Tetrachloro-m-xylene	12.28	0	16.67	0	73.6	28.6	126	0	00		
	SampType: MS	TestCo	TestCode: 8082_S	Units: µg/Kg		Prep Date:	: 2/25/2004		RunNo: 48245	15	
Client ID: 540W	Batch ID: 42890	Test	TestNo: SW8082			Analysis Date:	: 2/27/2004		SeqNo: 904861	361	
Analyte	Result	Pal	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit RPD	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	144.3	33	166.4	0	86.7	58.2	129	C	c		
Aroclor 1260	130.2	33	166.4	10.9	7.1.7	20.8	147	· c	0 0		
Surr: Decachlorobiphenyl	14.8	0	16.64	0	88.9	20.9	163	· c	o c		
Surr: l etrachloro-m-xylene	14.26	0	16.64	0	85.7	28.6	126	0	0		

	F Welling observed	r value above quantitation range	N Analyte not NFLAC certified		
	BRL Below Reporting Limit	T A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Annalyte detected below quantitation limits	S Spike Recovery outside accented recovery limits	summi financia candona canada de la constanta
	Analyte detected in the associated Method Blank	1 Holding times for preparation or analysis exceeded	5	RPD outside accepted recovery limits	
ĺ	Quantiers: B	H		∞.	

Environmental Strategies Corporation, LLC 0402A27

Work Order: 0402A27

CLIENT:

National Smelting & Refining

Project:

ANALYTICAL QC SUMMARY REPORT

BatchID: 42890

Sample ID 0402A27-006AMSD SampType: MSD	SampType: MSD	TestCo	TestCode: 8082_S	Units: µg/Kg		Prep Date:	3: 2/25/2004	24	RunNo: 48245	245	
Client ID: 540W	Batch ID: 42890	Test	estNo: SW8082			Analysis Date:	3: 2/27/2004	94	SeqNo: 904862	1862	
Analyte	Result	Pal	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%REC LowLimit HighLimit RPD Ref Val	%RPD	%RPD RPDLimit Qual	Qual
A	1										
Arocial 1016	150.7	33	166.4	0	90.5	58.2	129	144.3	431	25.3	
Aroclor 1260	138.4	33	166.4	10.9	76.6	20.8	177	130.0	- c	9 0	
Curr. Doogsblosskished		(1			2	ř	7.001	0.13	5.72	
sour. Decacinolopiphenyl	15.25	0	16.65	0	91.6	20.9	163	14.8	C	C	
Surr: Tetrachloro-m-xylene	14.71	C	16.65	c	000	0) (•	>	
		•	000	5	00.0	28.0	126	14.26	0	0	

Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	ш	Value above quantitation range	
Holding times for preparation or analysis exceeded	ſ	Analyte detected below quantitation limits	z	Analyte not NFLAC certified	
RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits			

Qualifiers:

Page 8 of 20

Environmental Strategies Corporation, LLC CLIENT:

0402A27 Work Order:

National Smelting & Refining

Project:

BatchID: 42892

ANALYTICAL QC SUMMARY REPORT

Sample ID MB-42892	SampType: MBLK	TestCode: 6010B_S	S Units: mg/Kg	Prep Date	Prep Date: 2/25/2004	RunNo: 48146	
Client ID:	Batch ID: 42892	TestNo: SW6010B	10B	Analysis Date: 2/25/2004	: 2/25/2004	SeqNo: 902424	
Analyte	Result	PQL SPK va	SPK value SPK Ref Val %I	REC LowLimit	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual	ler
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	TestCo	TestCode: 6010B S	Units: ma/Ka		Dran Date:	212512004	700			
				BALBILL COLLEG		בי קטור	C. 212312	104	KUNNO: 48146	46	
Client ID:	Batch ID: 42892	Test	TestNo: SW6010B		4	Analysis Date:	e: 2/25/2004	004	SeqNo: 902422	422	
Analyte	Result	Pal	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%REC LowLimit HighLimit RPD Ref Val	%RPD	%RPD RPDLimit	Qual
Antimony	41.98	5.00	50	0.04315	83.9	80	120	0	0		
Arsenic	46.55	5.00	50	0	93.1	80	120	0	· C		
Cadmium	50.14	2.50	50	0.0037	100	80	120	0	· c		
Chromium	50.73	2.50	50	0.07105	101	88	120	. 0			
Cobalt	50.25	2.50	20	0.0033	100	80	120	0	0		
Copper	49.42	2.50	90	0.0068	98.8	80	120	0	0		
Lead	47.84	5.00	20	0.00535	95.7	8	120	0	· c		
Manganese	49.54	5.00	20	0.01045	99.1	80	120	0	0		
Nickel	49.5	5.00	20	0.004	66	80	120	0	0		
Silver	4.204	2.50	5	0.00375	84	80	120	0) C		
Thallium	50.38	5.00	50	0	101	80	120	0	o c		
Zinc	50.57	5.00	20	0.0127	101	80	120	0	0		

itatio	Analyte not NELAC certified	
Below Reporting Limit	Analyte detected below quantitation limits	Spike Recovery outside accepted recovery limits
 BRL	י	S
Analyte detected in the associated Method Blank	Holding times for preparation or analysis exceeded	RPD outside accepted recovery limits
В	王	¥
Qualifiers:		

Page 9 of 20

Value above quantitation range Analyte not NELAC certified

ш Z

Environmental Strategies Corporation, LLC 0402A27

Work Order:

CLIENT:

National Smelting & Refining

Project:

ANALYTICAL QC SUMMARY REPORT

Result POL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val 44.96 44.	Sample ID 0402A27-006AMS	Camp Times Mo	1	1111111								
Feault Poll SPK Ref Val %REC LOW-Limit RPD Ref Val RPD Ref	SIMPORT THOUSAND	Samplype: MS	lestCo	de: 6010B_S	Units: mg/Kg		Prep Date			RunNo: 48146	46	
No. Part Pol. SPK Ref Val %REC Low Imit RPD Ref Val RPD Ref Ref Val RPD Ref Val		Batch ID: 42892	Test	No: SW6010B			Analysis Date			SeqNo: 902427	427	
9. See	Analyte	Result	POL	SPK value	SPK Ref Val	%REC) Ref Val	%RPD	RPDI imit	Ö
Hander H	Antimony	26.2	4.50	44.96	1281	29.8	75	100	(5
1	Arsenic	43.81	4.50	44 96	220	0.00	, i	C7 :	>	0		ဟ
17.19 2.25 44.96 2.677 88.3 75 125 0.0 142.9 2.25 44.96 40.1 69.2 75 125 0.0 142.9 2.25 44.96 40.1 69.2 75 125 0.0 142.9 2.25 44.96 107.5 78.7 75 125 0.0 142.9 2.25 44.96 107.5 78.7 75 125 0.0 142.9 2.25 44.96 20.13 79.6 75 125 0.0 142.9 2.25 44.96 20.13 79.6 75 125 0.0 142.9 2.25 44.96 2.885 89.3 75 125 0.0 152.9 2.25 2.25 2.496 0.0 81.3 75 125 0.0 152.9 2.25 2.25 2.496 0.0 81.3 75 125 0.0 152.9 2.25 2.25 2.496 0.0 0.0 0.0 0.0 152.9 2.25 2.25 2.25 2.25 0.0 152.9 2.25 2.25 2.25 0.0 0.0 0.0 0.0 152.9 2.25 2.25 2.25 0.0 0.0 0.0 0.0 152.9 2.25 2.25 2.25 0.0 0.0 0.0 0.0 152.9 2.25 2.25 2.25 0.0 0.0 0.0 0.0 152.9 2.25 2.25 0.0 0.0 0.0 0.0 0.0 152.9 2.25 2.25 0.0 0.0 0.0 0.0 0.0 152.9 2.25 2.25 0.0 0.0 0.0 0.0 0.0 152.9 2.25 2.25 0.0 0.0 0.0 0.0 0.0 152.9 2.25 2.25 0.0 0.0 0.0 0.0 0.0 152.9 2.25 2.25 0.0 0.0 0.0 0.0 0.0 152.9 2.25 2.25 0.0 0.0 0.0 0.0 0.0 152.9 2.25 0.0 0.0 0.0 0.0 0.0 0.0 152.9 2.25 0.0 0.0 0.0 0.0 0.0 0.0 152.9 2.25 0.0 0.0 0.0 0.0 0.0 0.0 152.9 2.25 0.0 0.0 0.0 0.0 0.0 0.0 0.0 152.9 2.25 0.0 0.0 0.0 0.0 0.0 0.0 0.0 152.9 2.25 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 152.9 2.25 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 152.9 2.25 0.0	Cadmium	72.20) (900:1	0.230	00.0	ς)	125	0	0		
157.4 125 125 126 130 150.2 125		42.39	2.25	44.96	2.677	88.3	75	125	0	0		
142.9 1.25 44.96 107.5 75. 125 125 142.9 107.5 142.9 142	Circomium	157.9	2.25	44.96	130	62.2	75	125	C	· C		ú
142.9 142.6 142.	Cobalt	71.19	2.25	44.96	40.1	69.2	75	125	· c	0 0		n c
Page	Copper	142.9	2.25	44.96	107.5	78.7	75	125	o c	0		'n
See 946 4.50 44.96 134.4 134.4 134.4 134.4 134.4 134.4 134.4 134.4 134.4 134.4 134.4 134.4 136.4 125	Lead	600.1	4.50	44.96	621.3	47.1	2. 7	2 7	> 0	0		
15.37 4.50 1.54 1.65 1.54 1.65 1.55 1.25	Manganese	946	4.50	44 9B	1244	- 6	. i	C !	>	0		ഗ
10 d42A27-006ADUP 3-504 4-50 4-	Nickel	76.07	9 6	00:+	++0-	999-	S.	125	0	0		ഗ
3.654 2.25 4.496 0 81.3 75 125 0 0 0 0 0 0 0 0 0	Silvor.	(2.3)	4.50	44.96	36.58	9.62	75	125	0	0		
1974 4.50 44.96 2.885 69.3 75 125 0 0 0 1974 4.50 44.96 166.9 68 75 125 125 0 10 0402AZ7-006ADUP SampType: DUP TestCode: 6010B_S SAMPType: DUP TestNor: Sw6010B SAMPType: DUP	Ollvei : : i	3.654	2.25	4.496	0	81.3	75	125	c	c		
1974 4.50 44.96 166.9 68 75 125	I hallium	43.01	4.50	44.96	2.885	89.3	75	125	· c			
SampType: DUP TestCode: 6010B_S Units: mg/Kg Prep Date: 2/25/2004 SampType: DUP TestCode: 6010B_S Units: mg/Kg Analysis Date: 2/25/2004 Satch ID: 42892 TestNo: Sw6010B Analysis Date: 2/25/2004 Special Selection of the control of the cont	Zinc	197.4	4.50	44.96	166.9	68	75	125	, c	o c		c
Fadow Batch ID: 42892 TestINo: Sw6010B Analysis Date: 2/25/2004 A	Sample ID 0402A27-006ADUP	SampType: DUP	TestCo	de: 6010B S	Units: ma/Ka		Dran Data	11				$\ $
Patch Batch ID: 4289t TestNo: SW6010B SPK Ref Val %REC LowLimit HighLimit RPD Ref Val Y 10.67 4.653 4.62 0 0 0 0 12.81 M 4.653 4.62 0 0 0 0 12.81 M 116.6 2.31 0 0 0 0 2.677 M 116.6 2.31 0 0 0 0 0 2.677 M 116.6 2.31 0 <t< td=""><td></td><td><u>!</u></td><td></td><td>1</td><td></td><td></td><td>ייקט סמוני</td><td></td><td></td><td>KUNNO: 48146</td><td>46</td><td></td></t<>		<u>!</u>		1			ייקט סמוני			KUNNO: 48146	46	
Y 10.67 4.62 SPK value SPK Ref Val %REC LowLimit HighLimit RPD R N 4.653 4.62 0		Batcn ID: 42892	Test	No: SW6010B			Analysis Date			SeqNo: 902426	426	
Holory 4.653 4.62 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Analyte	Result	Pal	SPK value	SPK Ref Val	%REC) Ref Val	%RPD	RPDI imit	<u></u>
Helia (1963) 4.653 (1963) (196	Antimony	10.67	4.62	0	6	c			20 07			
BRL 2.31 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Arsenic	4.653	4.62	•) C	· (o (0 1	12.81	18.2	20	
Horizon Haria (1971) (1	Cadmium	- E	234	0 0) ()	Э (o	5.238	11.8	20	
85e ese 85e 7.1 2.31 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Chromium	148 A	2 6		> ()	0	0	2.677	0	20	
ese 567.2 4.62 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Cohalt	10.0	5.9	יס	5	0	0	0	130	10.8	20	
ese 567.2 4.62 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	19000	1.70	7.37	0	0	0	0	0	40.1	7.76	20	
Horse 1025 4.62 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		001	2.31	0	0	0	0	0	107.5	7.21	20	
Hese 1025 4.62 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Lead	567.2	4.62	0	0	0	0	0	621.3	9.12	3 2	
34.12 4.62 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 BRL 2.31 0 0 0 0 0 0 0 0 0 156.9 4.62 0 0 0 0 0 0 0	Manganese	1025	4.62	0	0	0	0	0	1344	27.0	3 6	۵
BRL 2.31 0 0 0 0 0 0 0 0 0 0 0 0 0 8RL 4.62 0 0 0 0 0 0 0 0 0 0 156.9 4.62 0 0 0 0 0 0	Nickel	34.12	4.62	0	0	0	0	0	36.58	96.9	2 6	5
ium BRL 4.62 0 0 0 0 0 0 0 0 0 0 0 0 156.9 4.62 0 0 0 0 0	Silver	BRL	2.31	0	0	0	0	c			3 6	
156.9 4.62 0 0 0 0 0	Thallium	BRL	4.62	0	0	0	0	0	2 885	0 0	2 6	
	Zinc	156.9	4.62	0	0	0	0	0	166.9	6.13	2 6	
											1	

Qualifiers:	В	Analyte detected in the associated Method Blank	RRI	Relow Penorting Limit
	}		1	Delow reporting Limit
	Ξ	Holding times for preparation or analysis exceeded	-	Analyte detected below and
	۵			מחלה שלומים המנסמים מוליים
	4	N. D. Oulside accepted recovery limits	v.	Shike Recovery outside acc

Spike Recovery outside accepted recovery limits uantitation limits

CLIENT: Environmental Strategies Corporation, LLC

Work Order: 0402A27

National Smelting & Refining

Project:

ANALYTICAL QC SUMMARY REPORT

Sample ID MB-42908	SampType: MBLK	TestCo	TestCode: 8270_PAH_S	Units: µg/Kg		Prep Date:	2/26/2004	24	RunNo: 48207	21	
Client ID:	Batch ID: 42908	Test	TestNo: SW8270C		1	Analysis Date:		74	SeaNo: 904067		
Analyte	Result	PQL	SPK value St	SPK Ref Val	JEEC.	i laid	: : :			2	
1-Methylnaphthalene	IGA	220	1		5			Aru kei val	WRPU	RPDLimit	Qual
2 Methylacalytha		000									
z-ivieuryllia pliulaiene	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	BB	330							ï		
Dibenz(a.h)anthracene	1 0 0	230									
Fluoranthene	1 00	000									
	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		1557	c	ì	,					
Stirr: 4-Ternhenwi-d14	2000	0 0	1001	>	<u>د</u> د.	12.9	120	0	0		
t Digital to the	12/4	5	1667	0	76.5	41.5	128	0	C		
Surr: Nitrobenzene-d5	1110	0	1667	0	9.99	10	121	0	0		
Sample ID LCS-42908	SampType: LCS	TestCo	TestCode: 8270_PAH_S	Units: µg/Kg		Prep Date:	2/26/2004	94	RunNo. 48207	7	
Client ID:	Batch ID: 42908	Test	TestNo: SW8270C		Ø	Analysis Date:	2/26/2004	4	SeqNo: 904068	. 89	
Analyte	Result	Pal	SPK value SF	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Į į
Acenaphthene	1383	330	1667	0	83	17.5	122		-1		5
Acenaphthylene	1594	330	1667		05.7	5. 6	7 6	o (י כ		
Anthracene	1406	330	1667	o c		1 7 7 7	021	5	0		
Benz(a)anthracene	747	330	1001	> 0	4.40	o. lc	126	0	0		
Renzo(a)mirene	000	000	/991	0	87.3	65.5	120	0	0		
Delizo(a)pyrene	1380	330	1667	0	82.8	64	120	0	0		
	Analyte detected in the associated Method Blank	Blank	BRL Below Rep	Below Reporting Limit				Value above quantitation range	itation range		
	Holding times for preparation or analysis exceeded	ceeded	J Analyte de	Analyte detected below quantitation limits	itation limit	v	Z	Analyte not NET AC certified	Coertified		
R RPD outsi	RPD outside accepted recovery limits			Spike Recovery outside accepted recovery limits	ted recover	, limite		הששיו יוטוו טון און	Cerumen	Page	Page 10 of 20
	20 5/20 SARSO, Objective → group of ground distribution for an energy → a comprehension of the comprehension of t			Overy outside accep	ובת וברסגבו	/ Inmits				1921	24 60 01

Environmental Strategies Corporation, LLC 0402A27 CLIENT:

Work Order:

National Smelting & Refining Project:

ANALYTICAL QC SUMMARY REPORT

Sample ID LCS-42908	806	SampType: LCS	TestCo	TestCode: 8270_PAH_S	LS Units: µg/Kg		Prep Date:	2/26/2004		RunNo: 48207	207	
Client ID:		Batch ID: 42908	Test	TestNo: SW8270C			Analysis Date:	2/26/2004		SeqNo: 904068	1068	
Analyte		Result	Pal	SPK value	SPK Ref Val	%REC	LowLimit Hi	HighLimit R	RPD Ref Val	%RPD	RPDLimit	Pario
Benzo(b)fluoranthene	a)	1443	330	1667	C	86.6	63.4	120	c			5
Benzo(g,h,i)perylene	-	1442	330	1667	0	86.5	52.3	131	0 0	> 0		
Benzo(k)fluoranthene	a)	1450	330	1667	0	87	60.7	123	o c	> C		
Chrysene		1429	330	1667	0	85.7	62.5	120	o c	O C		
Dibenz(a,h)anthracene	ne	1481	330	1667	0	88.8	57.3	125	o c			
Fluoranthene		1400	330	1667	0	84	61.9	120	o C	0 0		
Fluorene		1380	330	1667	0	82.8	30.3	120	· c	0 0		
Indeno(1,2,3-cd)pyrene	ine	1381	330	1667	0	82.9	55.8	125		0 0		
Naphthalene		1262	330	1667	0	75.7	20.4	120	· c	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	enyl	1299	0	1667	0	77.9	12.9	120	0 0	0 0		
Surr: 4-Terphenyl-d14	d14	1325	0	1667	0	79.5	41.5	128	o c	o c		
Surr: Nitrobenzene-d5	3-d5	1154	0	1667	0	69.3	10	121	0	0		
Sample ID 0402A72	0402A72-001BMS	SampType: MS	TestCo	TestCode: 8270_PAH_S	LS Units: µg/Kg		Prep Date:	2/26/2004		RunNo: 48207	207	
Client ID:		Batch ID: 42908	Test	TestNo: SW8270C		en al le	Analysis Date:	2/26/2004		SeqNo: 904071	1071	
Analyte		Result	Pal	SPK value	SPK Ref Val	%REC	LowLimit Hi	HighLimit R	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene		1337	330	1666	0	80.3	13.9	121	c			
Acenaphthylene		1563	330	1666	0	93.9	14.6	120	0			
Anthracene		1374	330	1666	0	82.5	43.4	131	0	0		
Benz(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	Ð	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	av	1400	330	1666	0	84.1	48.3	128	0			
Chrysene		1402	330	1666	0	84.2	48.7	128		C		
Dibenz(a,h)anthracene	пе	1417	330	1666	0	85.1	44.3	129	0	0		
Fluoranthene		1338	330	1666	0	80.4	54.6	121	0) C		
Fluorene		1322	330	1666	0	79.4	23	120	0	0		
Qualifiers: B	Analyte dete	Analyte detected in the associated Method Blank	d Blank	BRL Below	Below Reporting Limit			1	Value above quantitation range	titation range		
Ξ	Holding tim	Holding times for preparation or analysis exceeded	exceeded	J Analy	Analyte detected below quantitation limits	titation limi	its	N	Analyte not NFLAC certified	Ccertified		
R	RPD outside	RPD outside accepted recovery limits		S Spike	Spike Recovery outside accepted recovery limits	oted recover	ry limits			2000	Page	Page 11 of 20

Environmental Strategies Corporation, LLC 0402A27 CLIENT: Work Order:

National Smelting & Refining Project:

ANALYTICAL QC SUMMARY REPORT

<u>.</u>											
Sample ID 0402A72-001BMS	SampType: MS	TestCo	TestCode: 8270_PAH_S	S Units: µg/Kg		Prep Date:	2/26/2004		RunNo: 48207		
Client ID:	Batch ID: 42908	Test	TestNo: SW8270C			Analysis Date:	2/26/2004		SeqNo: 904071		
Analyte	Result	Pal	SPK value	SPK Ref Val	%REC	LowLimit H	HighLimit RI	RPD Ref Val	%RPD RPD	RPDI imit	-
Indeno(1,2,3-cd)pyrene	1350	330	1666	c	2 7	8 77	200	c			1
Naphthalene	1255	330	1666		75.4) (07.	0 (ο :		
Phenanthrene	1367	330	1666) c		2 5	120	0 1	0		
Pyrene	1427	330	1666	o 0	0 6	43.9	120	0	0		
Surr: 2-Fluorobinhenvl	1248		1666	> (%2°./	42.4	128	0	0		
Surry A Torobony 444	0471	> (9991	0	74.9	12.9	120	0	0		
Suit. 4-1 et prieriyl-0.14	1282	0	1666	0	11	41.5	128	0	0		
Surr: Nitrobenzene-d5	1157	٥	1666	0	69.5	10	121	0	0		
Sample ID 0402A72-001BMSD	SampType: MSD	TestCo	TestCode: 8270_PAH_S	S Units: µg/Kg		Prep Date:	2/26/2004		RunNo: 48207		
Client ID:	Batch ID: 42908	Test	TestNo: SW8270C			Analysis Date:	2/26/2004				
Analyte	Result	Pal	SPK value	SPK Ref Val	%REC	LowLimit H	HighLimit RF	RPD Ref Val	%RPD RPDLimit	Limit Qual	
Acenaphthene	1269	330	1664	0	76.2	13.9	121	1337	00.3	9	7
Acenaphthylene	1477	330	1664	0	88.8	14.6	120	1563	5.65	4 t	
Anthracene	1321	330	1664	0	79.4	43.4	131	1374	3.97	 	
Benz(a)anthracene	1385	330	1664	0	83.2	39.7	139	1420	2.07	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	
Ulbenz(a,n)antinracene	1381	330	1664	0	83	44.3	129	1417	2.57	29.1	
riuorantnene	1297	330	1664	0	77.9	54.6	121	1338	3.12	21.9	
riuoi ei le	1288	330	1664	0	77.4	23	120	1322	2.62	39.5	
Maphtholog	1311	330	1664	0	78.8	44.8	128	1350	2.92	24	
Description	1192	330	1664	0	71.6	10	120	1255	5.13	47.1	
Directo	1334	330	1664	0	80.2	43.9	120	1367	2.46	31.5	
r yleile	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: 4-1 erpnenyl-d14	1236	0	1664	0	74.2	41.5	128	1282	0		
Suff: Nifrobenzene-d5	1088	0	1664	0	65.4	10	121	1157	0	0	
	Analyte detected in the associated Method Blank	lank	BRL Below	Below Reporting Limit			E Valu	Value above quantitation range	tation range		
	Holding times for preparation or analysis exceeded	eeded		Analyte detected below quantitation limits	tation limi	S	N Ana	Analyte not NELAC certified	C certified		
R RPD outside	RPD outside accepted recovery limits		S Spike	Spike Recovery outside accepted recovery limits	ed recover	y limits				Page 12 of 20	of 50

Environmental Strategies Corporation, LLC 0402A27 CLIENT: Work Order:

National Smelting & Refining Project:

ANALYTICAL QC SUMMARY REPORT

Sample ID LCS-42924	SampType: LCS	TestCoc	TestCode: 8260 TCL4.2	2 Units: µa/L		Prep Date:	2/26/2004		DinNo. 48422		
Client ID:	Batch ID: 42924	Testh	TestNo: SW8260B	7 <u>2</u>	>7.1	Analysis Date:			SeqNo: 902430	. 0	
Analyte	Result	PQL	SPK value S	SPK Ref Val	%REC	LowLimit H	HighLimit RF	RPD Ref Val	«RPD R	RPDLimit	PellO
1,1-Dichloroethene	57.55	5.0	20	0	115	58.1	142	0	c		
Benzene	45.35	5.0	50	0	90.7	74	127	o C	0 0		
Chlorobenzene	45.26	5.0	20	0	90.5	79.8	118	0 0	0 0		
Toluene	43.53	5.0	50	0	87.1	78.5	124	· C	o c		
Trichloroethene	42.38	5.0	50	0	84.8	74.2	138) C		
Surr: 4-Bromofluorobenzene	48.38	0	20	0	96.8	63.1	121	0	o c		
Surr: Dibromofluoromethane	50.39	0	20	0	101	69.5	126	0 0	0 C		
Surr: Toluene-d8	51.31	0	50	0	103	74.2	120	0	00		
Sample ID 0402A46-001AMS	SampType: MS	TestCoo	TestCode: 8260_TCL4.2	2 Units: µg/L		Prep Date:	2/26/2004		RunNo: 48156		
Client ID:	Batch ID: 42924	Test	TestNo: SW8260B		23.0	Analysis Date:	2/26/2004		SeqNo: 903156	9	
Analyte	Result	PQL	SPK value S	SPK Ref Val	%REC	LowLimit H	HighLimit RF	RPD Ref Val	%RPD R	RPDLimit	Qual
1,1-Dichloroethene	62.57	5.0	50	0	125	51.1	151	0	c		1
Benzene	49.03	5.0	20	0	98.1	68.9	131	0	0		
Chlorobenzene	48.44	5.0	20	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	20	0	94.3	66.3	145	0	0		
Surr: 4-Bromofluorobenzene	48.28	0	20	0	96.6	63.1	121	0	0		
Surr: Dibromofluoromethane	50.49	0	20	0	101	69.5	126	0	0		
Surr: Toluene-d8	50.55	0	20	0	101	74.2	120	0	0		
Sample ID 0402A46-001AMSD	SampType: MSD	TestCoo	TestCode: 8260_TCL4.2	2 Units: µg/L		Prep Date:	2/26/2004		RunNo: 48156		
Client ID:	Batch ID: 42924	Test	TestNo: SW8260B		0.50	Analysis Date:	2/26/2004		SeqNo: 903157	21	
Analyte	Result	PQL	SPK value S	SPK Ref Val	%REC	LowLimit H	HighLimit RF	RPD Ref Val	%RPD R	RPDLimit	Qual
1,1-Dichloroethene	62.17	5.0	50	o	124	51.1	151	62.57	0.641	14.3	
Benzene	48.08	5.0	20	0	96.2	68.9	131	49.03	1.96	9 0	
Chlorobenzene	48.04	5.0	20	0	96.1	75.4	123	48.44	0,829	2 9	
Toluene	46.89	5.0	20	0	93.8	74.8	128	47.66	1.63	10	
Trichloroethene	45.49	5.0	20	0	91	66.3	145	47.13	3.54	7	
20,530	Analyte detected in the associated Method Blank	3lank	BRL Below Re	Below Reporting Limit			E Valu	Value above quantitation range	titation range		
	Holding times for preparation or analysis exceeded	ceeded		Analyte detected below quantitation limits	ıtitation lim	its	N Ana	Analyte not NELAC certified	C certified	í	
K KFD outside	KFD outside accepted recovery limits		S Spike Re	Spike Recovery outside accepted recovery limits	pted recove	ry limits				Fage	Fage 13 of 20

Environmental Strategies Corporation, LLC

0402A27 Work Order:

CLIENT:

National Smelting & Refining Project:

BatchID: 42924

ANALYTICAL QC SUMMARY REPORT

Sample ID 0402A46-001AMSD	D SampType: MSD	TestCode: 8260 TCL4.2	260 TCL4	.2 Units: ua/I		Pren Date.	VOOCISCIC .		100		
Client ID:	10. 4000 D					4			MUIINO: 46136	90	
	Balch ID: 42924	lestno: SW8260B	W8260B			Analysis Date:	: 2/26/2004		SeqNo: 903157	157	- 32
Analyte	Result	PQL SP	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit RF	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	9 47.87	0	50	0	95.7	63.1	121	48.28	c	c	
Surr: Dibromofluoromethane	50.72	0	20	0	101	69.5	126	50,49	0	o c	
Surr: Toluene-d8	49.82	0	20	0	9.66	74.2	120	50.55	0	0	
Sample ID MB-42924	SampType: MBLK	TestCode: 8260B_W	260B_W	Units: µg/L		Prep Date:	: 2/26/2004		RunNo: 48122	22	
Client ID:	Batch ID: 42924	TestNo: SW8260B	W8260B			Analysis Date:	: 2/25/2004		SeqNo: 902318	318	
Analyte	Result	PQL SP	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit RF	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							ř		
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 de	Analyte detected in the associated Method Blank	Slank BRL		Below Reporting Limit				Value above quantitation range	itation range		
H Holding ti	Holding times for preparation or analysis exceeded	ceeded J	Analyte	Analyte detected below quantitation limits	titation lim	its	N Ana	Analyte not NELAC certified	C certified		
R RPD outsi	RPD outside accepted recovery limits	S		Spike Recovery outside accepted recovery limits	pted recove	ery limits				Page	Page 14 of 20

Environmental Strategies Corporation, LLC 0402A27 CLIENT: Work Order:

National Smelting & Refining

Project:

ANALYTICAL QC SUMMARY REPORT

Sample ID MB-42924	3-42924	SampTvpe: MBLK	TestCode:	TestCode: 8260B W	Units: ua/l		Dran Data.	. 2/26/2004				
Client ID:		Batch ID: 42924	Toetho	TestNo: SW8260B	i n i	,			ŧ:	KUNINO: 48122		
) /		1767t	- Geography	344 020015		•	Analysis Date:	e: 2/25/2004	4	SeqNo: 902318	ထ	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD R	RPDLimit	Qual
Carbon tetrachloride	lloride	BRL	5.0									
Chlorobenzene	a)	BRL	5.0									
Chloroethane		BRL	10									
Chloroform		BRL	5.0									
Chloromethane	a)	BRL	10									
cis-1,2-Dichloroethene	oethene	BRL	5.0									
cis-1,3-Dichloropropene	opropene	BRL	5.0									
Cyclohexane		BRL	5.0									
Dibromochloromethane	methane	BRL	5.0									
Dichlorodifluoromethane	omethane	BRL	10									
Ethylbenzene		BRL	5.0							i e		
Freon-113		BRL	10									
Isopropylbenzene	ene	BRL	5.0									
m,p-Xylene		BRL	10									
Methyl acetate	123	BRL	5.0									
Methyl tert-butyl ether	yl ether	BRL	5.0									
Methylcyclohexane	xane	BRL	5.0									
Methylene chloride	uide	BRL	5.0									
Naphthalene		BRL	5.0									
o-Xylene		BRL	5.0									
Styrene		BRL	5.0									
Tetrachloroethene	ene	BRL	5.0									
Toluene		BRL	5.0									
trans-1,2-Dichloroethene	loroethene	BRL	5.0									
trans-1,3-Dichloropropene	loropropene	BRL	5.0									
Trichloroethene	ø	BRL	5.0									
Trichlorofluoromethane	methane	BRL	5.0									
Vinyl chloride		BRL	2.0									
Xylenes, Total		BRL	5.0									
Surr: 4-Bror	Surr: 4-Bromofluorobenzene	zene 49.9	5.0	20	0	99.8	63.1	121	0	c		
Surr: Dibror	Surr: Dibromofluoromethane	1ane 48.2	5.0	50	0	96.4	69.5	126	0	0		
Qualifiers:	B Analyt	Analyte detected in the associated Method Blank		BRL Below	Below Reporting Limit			Э	Value above quantitation range	itation range		
	H Holdin	Holding times for preparation or analysis exceeded	xceeded	J Analy	Analyte detected below quantitation limits	itation limi	2		Analyte not NFI AC certified	Contified		
	R RPD o	RPD outside accepted recovery limits		S Spike	Spike Recovery outside accepted recovery limits	ted recover	y limits				Page.	Page 15 of 20
					 The control of the cont							į

Environmental Strategies Corporation, LLC CLIENT:

0402A27 Work Order:

National Smelting & Refining Project:

ANALYTICAL QC SUMMARY REPORT

Sample ID MB-42924	924	SampType: MBLK	TestCod	TestCode: 8260B_W	Units: µg/L		Prep Date:	2/26/2004		RunNo: 48122	
Client ID:		Batch ID: 42924	TestN	TestNo: SW8260B		Αn	Analysis Date:	212512004		Sealo: 002348	
Analyda		2	č	ì				1001011		Seding. 302318	
ordinary.		Result	PUP	SPK value	SPK Ref Val	%REC L	LowLimit Hi	HighLimit RPD	RPD Ref Val	%RPD RPDLimit	nit Qual
Surr: Toluene-d8	3	51.4	5.0	20	0	103	74.2	120	0	0	
Sample ID MB-42924	924	SampType: MBLK	TestCod	TestCode: 8260B_W	Units: µg/L		Prep Date:	2/26/2004		RunNo: 48156	
Client ID:		Batch ID: 42924	TestN	TestNo: SW8260B		An	Analysis Date:	2/26/2004		SeqNo: 902604	
Analyte		Result	Pal	SPK value	SPK Ref Val	%REC L	LowLimit Hi	HighLimit RPD	RPD Ref Val	%RPD RPDLimit	nit Oual
1,1,1-Trichloroethane	ne	BRL	5.0								
1,1,2,2-Tetrachloroethane	ethane	BRL	5.0								
1,1,2-Trichloroethane	Je	BRL	5.0								
1,1-Dichloroethane		BRL	5.0								
1,1-Dichloroethene		BRL	5.0							e s	
1,2,4-Trichlorobenzene	ene	BRL	5.0								
1,2-Dibromo-3-chloropropane	горгорапе	BRL	5.0								
1,2-Dibromoethane		BRL	5.0								
1,2-Dichlorobenzene	ē	BRL	5.0								
1,2-Dichloroethane		BRL	5.0								
1,2-Dichloroethene, Total	, Total	BRL	5.0								
1,2-Dichloropropane	O	BRL	5.0								
1,3-Dichlorobenzene	ā	BRL	5.0								
1,4-Dichlorobenzene	ē	BRL	5.0								
2-Butanone		BRL	10								
2-Hexanone		BRL	10								
4-Methyl-2-pentanone	эпе	BRL	10								
Acetone		BRL	20								
Benzene		BRL	5.0								
Bromodichloromethane	ane	BRL	5.0								
Bromoform		BRL	5.0								
Bromomethane		BRL	5.0								
Carbon disulfide		BRL	5.0								
Carbon tetrachloride	Ð	BRL	5.0								
Chlorobenzene		BRL	5.0								
Qualifiers: B	Analyte dete	Analyte detected in the associated Method Blank	lank	BRL Below	Below Reporting Limit			E Value	Value above quantitation range	ation range	471
Н	Holding tim	Holding times for preparation or analysis exceeded	papaa	J Analyt	Analyte detected below quantitation limits	titation limits			Analyte not NFI AC certified	Certified	
K	RPD outside	RPD outside accepted recovery limits			Spike Recovery outside accepted recovery limits	oted recovery	limits				Page 16 of 20
		M. COMPANY CONTRACTOR									,

Environmental Strategies Corporation, LLC CLIENT:

0402A27 Work Order:

National Smelting & Refining Project:

ANALYTICAL QC SUMMARY REPORT

BatchID: 42924

Sample ID MB-42924	24	SampTvne: MBIK	TestCo	TestCode: 8260B W	l loife: 11a/l		Dron Date:	100019010				
. to:iC		Date in Appea			cime: Figure	,	riep Date.	Z/Z0/Z004	res :	KUNINO: 48156	90	
Cilent ID:		Batch ID: 42924	Testh	TestNo: SW8260B		∢	Analysis Date:	2/26/2004		SeqNo: 902604	604	
Analyte		Result	Pal	SPK value	SPK Ref Val	%REC	LowLimit Hi	HighLimit R	RPD Ref Val	%RPD	RPDLimit	Qual
Chloroethane		BRL	10									
Chloroform		BRL	5.0									
Chloromethane		BRL	10									
cis-1,2-Dichloroethene	ine	BRL	5.0									
cis-1,3-Dichloropropene	ene	BRL	5.0									
Cyclohexane		BRL	5.0									
Dibromochloromethane	ane	BRL	5.0									
Dichlorodifluoromethane	hane	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	er	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	hene	BRL	5.0									
trans-1,3-Dichloropropene	obene.	BRL	5.0									
Trichloroethene		BRL	5.0									
Trichlorofluoromethane	ane	BRL	5.0									
Vinyl chloride		BRL	2.0									
Xylenes, Total		BRL	5.0									
Surr: 4-Bromofluorobenzene	orobenzene	48.33	5.0	50	0	96.7	63.1	121	0	C		
Surr: Dibromofluoromethane	promethane	50.73	5.0	50	0	101	69.5	126	0) C		
Surr: Toluene-d8		51.34	5.0	50	0	103	74.2	120	0	0		
Qualifiers: B	Analyte detec	Analyte detected in the associated Method Blank	hod Blank	BRL Below	Below Reporting Limit			E Va	Value above quantitation range	itation range		
H	Holding time	Holding times for preparation or analysis exceeded	sis exceeded	J Analy	Analyte detected below quantitation limits	ntitation limi	S	N An	Analyte not NELAC certified	C certified		
В	RPD outside	RPD outside accepted recovery limits		S Spike	Spike Recovery outside accepted recovery limits	epted recover	y limits				Pag	Page 17 of 20
				100 P	of stilled the feet of the second of the se							

Value above quantitation range Analyte not NELAC certified

шZ

Environmental Strategies Corporation, LLC 0402A27

Work Order:

CLIENT:

National Smelting & Refining

Project:

ANALYTICAL QC SUMMARY REPORT

BatchID: 42924

Sample ID LCS-42924	SampType: LCS	TestCo	TestCode: 8260B_W	Units: µg/L		Prep Dat	Prep Date: 2/26/2004	04	RunNo: 48156	156	
Client ID:	Batch ID: 42924	Test	TestNo: SW8260B		+	Analysis Date:	te: 2/26/2004	04	SeqNo: 902605	2605	
Analyte	Result	PaL	SPK value	SPK value SPK Ref Val	%REC	LowLimit	HighLimit	%REC LowLimit HighLimit RPD Ref Val	%RPD	%RPD RPDLimit Qual	Qual
1,1-Dichloroethene	56.43	5.0	20	0	113	58.1	142	0	0		
Benzene	44.81	5.0	20	0	89.6	74	127	0	0		
Chlorobenzene	45.11	5.0	90	0	90.2	79.8	118	0	0		
Toluene	42.76	5.0	20	0	85.5	78.5	124	0	0		
Trichloroethene	41.44	2.0	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	2.0	90	0	26	69.5	126	0	0		
Surr: Toluene-d8	49.98	5.0	20	0	100	74.2	120	0	0		

Analyte detected in the associated Method Blank	BRL	BRL Below Reporting Limit
Holding times for preparation or analysis exceeded	ſ	Analyte detected below quantitation
RPD outside accepted recovery limits	S	Spike Recovery outside accepted

B H A

S Spike Recovery outside accepted recovery limits tion limits

Environmental Strategies Corporation, LLC CLIENT:

0402A27 Work Order: National Smelting & Refining

Project:

ANALYTICAL QC SUMMARY REPORT

BatchID: 42949

					The second secon						
Sample ID MB-42949	SampType: MBLK	TestCod	TestCode: 245.1_W	Units: mg/L		Prep Date:	: 2/27/2004		RunNo: 48218		
Client ID:	Batch ID: 42949	TestN	TestNo: E245.1		1	Analysis Date: 2/27/2004	: 2/27/2004		SeqNo: 904336		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	%REC LowLimit HighLimit RPD Ref Val	HighLimit R	PD Ref Val	%RPD RPDLimit		Qual
Mercury	BRL	0.000200	0	0	0	0	0	0	0		
Sample ID LCS-42949	SampType: LCS	TestCod	TestCode: 245.1_W	Units: mg/L		Prep Date:	: 2/27/2004		RunNo: 48218		
Client ID:	Batch ID: 42949	TestN	TestNo: E245.1		*	Analysis Date: 2/27/2004	: 2/27/2004		SeqNo: 904338		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	LowLimit HighLimit RPD Ref Val	PD Ref Val	%RPD RPDLimit		Qual
Mercury	0.004945	0.000200	0.005	0	98.9	85	115	0	0		
Sample ID 0402986-001IMS	SampType: MS	TestCod	TestCode: 245.1_W	Units: mg/L	A	Prep Date:	: 2/27/2004		RunNo: 48218		
Client ID:	Batch ID: 42949	TestN	TestNo: E245.1			Analysis Date:	: 2/27/2004		ŞeqNo: 904343		
Analyte	Result	PaL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit RPD Ref Val	PD Ref Val	%RPD RPDLimit		Qual
Mercury	0.005085	0.000200	0.005	0.00005888	101	70	130	0	0		
Sample ID 0402986-001IMSD Client ID:	SampType: MSD Batch ID: 42949	TestCod	TestCode: 245.1_W	Units: mg/L		Prep Date:	Prep Date: 2/27/2004		RunNo: 48218		
Analyte	Result	Pol	SPK value	SPK Ref Val	%REC	LowLimit 1	ghLimit	RPD Ref Val	Sequo. 904344 %RPD RPDLimit		Qual
Mercury	0.005096	0.000200	0.005	0.00005888	101	70	130	0.005085	0.216	20	

RPD outside accepted recovery limits

BRL Below Reporting Limit Holding times for preparation or analysis exceeded Analyte detected in the associated Method Blank ВНЯ Qualifiers:

Spike Recovery outside accepted recovery limits Analyte detected below quantitation limits

Value above quantitation range Analyte not NELAC certified шΖ

Page 20 of 20

Environmental Strategies Corporation, LLC CLIENT:

0402A27 Work Order: National Smelting & Refining

Project:

ANALYTICAL QC SUMMARY REPORT

BatchID: 42987

Sample ID MB-42987	SampType: MBLK	TestCode	TestCode: 7471A_S	Units: mg/Kg		Prep Date:	Prep Date: 2/28/2004		RunNo: 48236		
Client ID:	Batch ID: 42987	TestN	TestNo: SW7471A		∢	Analysis Date: 2/28/2004	2/28/2004		SeqNo: 904767	7	
Analyte	Result	Pal	SPK value	SPK Ref Val	%REC	LowLimit H	HighLimit RPD Ref Val	·Val	%RPD RI	RPDLimit	Qual
Mercury	BRL	0.100									
Sample ID LCS-42987	SampType: LCS	TestCod	TestCode: 7471A_S	Units: mg/Kg		Prep Date:	Prep Date: 2/28/2004		RunNo: 48236		
Client ID:	Batch ID: 42987	TestN	TestNo: SW7471A		ď	Analysis Date: 2/28/2004	2/28/2004	• tomofili	SeqNo: 904768	æ	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit RPD Ref Val	f Val	%RPD RI	RPDLimit	Qual
Mercury	0.3719	0.100	0.4	0	93	80	120	0	0		
Sample ID 0402A27-006AMS	SampType: MS	TestCod	TestCode: 7471A_S	Units: mg/Kg		Prep Date:	2/28/2004		RunNo: 48236		
Client ID: 540W	Batch ID: 42987	TestN	TestNo: SW7471A		Q.	Analysis Date:	2/28/2004		SeqNo: 904770	0	
Analyte	Result	Pal	SPK value	SPK Ref Val	%REC	%REC LowLimit H	HighLimit RPD Ref Val	fVal	%RPD R	RPDLimit	Qual
Mercury	0.3818	0.0895	0.358	0.04741	93.4	70	130	0	0		
Sample ID 0402A27-006AMSD Client ID: 540W	SampType: MSD Ratch ID: 42987	TestCod	TestCode: 7471A_S	Units: mg/Kg		Prep Date:	2/28/2004		RunNo: 48236		
Analyte	Result	Pal		SPK Ref Val	, %REC	LowLimit F	Ç		Seque 30471	RPDLimit	Qual
Mercury	0.3987	0.0937	0.3747	0.04741	93.8	70	130 0.3	0.3818	4.34	30	

RPD outside accepted recovery limits

BRL Below Reporting Limit

Holding times for preparation or analysis exceeded Analyte detected in the associated Method Blank B R Qualifiers:

Analyte detected below quantitation limits

Spike Recovery outside accepted recovery limits

Value above quantitation range Analyte not NELAC certified ыZ



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 1 total pages (including cover letter).

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

Sincerely,

Allison Cantrell

allem Contull

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

Work Order: OS OBO 48 CHAIN OF CUSTODY

Date

No # of Containers to check on the status of your results, place bottle Metals are: www.acsatlanta.com P. As. S. Th. Z. Seme Day Rush (setth req.) Fact Y/O Visit our website Standard 5 Business Day Next Business Day Rush 2 Business Day Rush orders, etc. Total # of Containers RECEIP REMARKS Other TATE PROGRAM (if any): DATA PACKAGE -mail 0000 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 36 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANCEMENTS ARE MADE. ANALYSIS REQUESTED PRESERVATION (See codes) PROJECT INFORMATION ITTE ADDRESS 430 BIS HOP ST Gecauted NL/AHanta, GA Š ** (2754) /05 INVOICE TO: (IF DIFFERENT FROM ABOVE) SEND REPORT TO: Ø XXX **POJECT NAME** × QUOTE # 202 DATE/TOME 38 Matrix (See codes) \mathcal{Z} હે B BN B B \$ Boxborough, MA 01719 3 1740 Massachusetts Ave OREN FORK UPS MAIL COURIER GREYHOUND OTHER anaoqmo: SHIPMENT METHOD LESO-772-81.6 R Qua_D 14.87 X SIGNATURE COLLEGE 15.75 6:40 50:01 10:55 19:30 18:30 13:5 8:58 SAMPLED 6/11/05 RECEIVEDBY 50 % DATE/TIME Environmental Strategies Siselle Beaution SAMPLE ID HONE 978-6 55-9600 SPECIAL INSTRUCTIONS/COMMENTS: consulting uc Trip Bland MW-2 スマーの 28-6 ĨI Z MW-3 るなって MW-8 ナノダエ ELINQUISHED BY AMPLED BY OLDANY

GW = Groundwater SE = Sedament SU = Sult see was very many very Sulfuric acid + ice SAd+1 = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None
White Copy - Original; Yellow Copy - Client MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) PRESERVATIVE CODES:

Sample/Cooler Receipt Checklist

Client Environmental Strategies Consulting		Work Ord	er Number	0506948
Checklist completed by Bread America L. Signature Di	/20/05 ate			
Carrier name: FedEx UPS Courier Client ✓ 1	US Mail Oth	ıcr		
Shipping container/cooler in good condition?	Yes 🛂	No	Not Present	
Custody seals intact on shipping container/cooler?			Not Present ✓	
Custody seals intact on sample bottles?	Yes	No	Not Present $\sqrt{}$	
Container/Temp Blank temperature in compliance? (4°C±2)	* Yes 🗸	No		
Cooler #1 4.7°c Cooler #2 5.1°c Cooler #3	Cooler #4	Co	oler#5	Cooler #6
Chain of custody present?	Yes 🗸	No		
Chain of custody signed when relinquished and received?	Ycs √			
Chain of custody agrees with sample labels?	Yes 🗹	No		
Samples in proper container/bottle?	Yes X Lac	M _{No} ✓		
Sample containers intact?	Yes <u>√</u>	No		
Sufficient sample volume for indicated test?	Yes 🗸	No		
All samples received within holding time?	Yes 🗸	No		
Was TAT marked on the COC?	Yes <u>√</u>	No		
Proceed with Standard TAT as per project history?	Yes	No _	Not Applicable	J
Water - VOA vials have zero headspace? No VOA vials st	ubmitted	Yes ✓	No	•
Water - pH acceptable upon receipt?			Not Applicable	
Adjusted? BA				
Sample Condition: Good V Other (Explain)			WF.	
(For diffusive samples or AIHA lead) Is a known blank include	led? Yes	N	· V	

See Case Narrative for resolution of the Non-Conformance.

 $C: \label{lem:complex} C: \label{lem:comple$

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

CLIENT:

Environmental Strategies Corporation

Project:

NL/Atlanta, GA

Lab ID:

0506948-001

Date: 23-Sep-05

Client Sample ID: MW-7

Collection Date: 6/19/2005 10:05:00 AM

Matrix: GROUNDWATER

					COUNDY	MIEK
Analyses	Result	Reporting Limit	Qual Units	BatchID	Dilution Factor	Date Analyzed
METALS, TOTAL		SWe	3010B (S)	W3010A)		Analyst DD
Antimony	BRL	0.0200	mg/L	59043	1	Analyst: BB 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	
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 6/23/2005 6:34 PM
Thallium	BRL	0.0200	mg/L	59043		
Zinc	0.154	0.0200	mg/L	59043 59043	1 1	6/23/2005 6:34 PM 6/23/2005 6:34 PM
POLYAROMATIC HYDROCARBONS		SW8	270C (SV	V3535)		
Naphthalene	BRL	10	μg/L	59008	4	Analyst: JMZ
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	•	6/22/2005 11:04 AM
Fluorene	BRL	10	μg/L	59008		6/22/2005 11:04 AM
Phenanthrene	BRL	10	µg/L	59008		6/22/2005 11:04 AM
Anthracene	BRL	10	ha\r ha\r	_		6/22/2005 11:04 AM
Fluoranthene	BRL	10	μg/L	59008		6/22/2005 11:04 AM
Pyrene	BRL	10		59008		6/22/2005 11:04 AM
Benz(a)anthracene	BRL	10	µg/L	59008		6/22/2005 11:04 AM
Chrysene	BRL	10	µg/L	59008		6/22/2005 11:04 AM
Benzo(b)fluoranthene	BRL	10	µg/L	59008		6/22/2005 11:04 AM
Benzo(k)fluoranthene	BRL	10	μg/L	59008		6/22/2005 11:04 AM
Benzo(a)pyrene	BRL	10	µg/L	59008		6/22/2005 11:04 AM
Dibenz(a,h)anthracene	BRL	10	μg/L	59008		6/22/2005 11:04 AM
Benzo(g,h,i)perylene			μg/L	59008		6/22/2005 11:04 AM
Indeno(1,2,3-cd)pyrene	BRL	10	µg/L	59008		6/22/2005 11:04 AM
Surr: Nitrobenzene-d5	BRL	10	µg/L	59008	1	6/22/2005 11:04 AM
Surr: 2-Fluorobiphenyl	72.3	26.3-132	%REC	59008	1	6/22/2005 11:04 AM
Surr: 4-Terphenyl-d14	84.0	46.6-117	%REC	59008	1	6/22/2005 11:04 AM
	102	34-135	%REC	59008	1 (6/22/2005 11:04 AM
/OLATILE ORGANICS Benzene	201	SW82	-	/5030B)		Analyst: TMP
Toluene	BRL	1.0	μg/L	59169	1 (5/23/2005 5:54 AM
Ethylbenzene	BRL	1.0	μg/L	59169	1 (6/23/2005 5:54 AM
•	BRL	1.0	µg/∟	59169	1 (5/23/2005 5:54 AM
m,p-Xylene	BRL	1.0	μg/L	59169		6/23/2005 5:54 AM
o-Xylene	BRL	1.0	µg/L	59169	1 (8/23/2005 5:54 AM
Surr: 4-Bromofluorobenzene	126	59.6-144	%REC	59169		5/23/2005 5:54 AM

Value exceeds Maximum Contaminant Level

BRL Below Reporting Limit

Holding times for preparation or analysis exceeded H

N Analyte not NELAC certified

Analyte detected in the associated Method Blank

E Estimated (Value above quantitation range)

Surrogate Recovery outside accepted recovery limits S

Narr See Case Narrative

NC Not Confirmed

CLIENT: Environmental Strategies Corporation

Project: NL/Atlanta, GA

Lab ID: 0506948-002 Date: 23-Sep-05

Client Sample ID: MW-4

Collection Date: 6/19/2005 10:55:00 AM

Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual Units	BatchID	Dilution Factor	Date Analyzed
METALS, TOTAL		SWe	8010B	(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		6/23/2005 6:38 PM
Cobalt	BRL	0.0200	mg/L	59043		6/23/2005 6:38 PM
Copper	BRL	0.0100	mg/L	59043		6/23/2005 6:38 PM
Lead	BRL	0.0100	mg/L	59043		6/23/2005 6:38 PM
Selenium	BRL	0.0200	mg/L	59043		6/23/2005 6:38 PM
Silver	BRL	0.0100	mg/L	59043		6/23/2005 6:38 PM
Thallium	BRL	0.0200	mg/L	59043		
Zinc	BRL	0.0200	mg/L	59043		6/23/2005 6:38 PM 6/23/2005 6:38 PM

Qualifiers:

Value exceeds Maximum Contaminant Level

BRL Below Reporting Limit

Н Holding times for preparation or analysis exceeded

Analyte not NELAC certified

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

Client Sample ID: MW-5

Project:

NL/Atlanta, GA

Collection Date: 6/19/2005 1:51:00 PM

Date: 23-Sep-05

Lab ID: 0506948-003

Matrix: GROUNDWATER

Analyses	Result	Reporting	Qual Units	PotohTD	Dilution	Data Analysis
	Tesuit	Limit	Qual Onits	BatchID	Factor	Date Analyzed
METALS, TOTAL		SW	6010B (S	W3010A)		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		SW	8270C (S	W3535)		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-Methyinaphthalene	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		SW8	3260B (S	W5030B)		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

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

Client Sample ID: MW-1

Project: NL/Atlanta, GA Collection Date: 6/19/2005 3:40:00 PM Lab ID: 0506948-004 Matrix: GROUNDWATER

		D /				
Analyses	Result	Reporting Limit	Qual Units	BatchID	Dilution Factor	Date Analyzed
METALS, TOTAL		sw	6010B (SV	N3010A)		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		sw	8270C (SV	V3535)		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		SW	8260B (SV	V5030B)		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:

Date: 23-Sep-05

Value exceeds Maximum Contaminant Level

BRL Below Reporting Limit

Н Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

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

Environmental Strategies Corporation

Client Sample ID: MW-3

CLIENT: Project:

NL/Atlanta, GA

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

Date: 23-Sep-05

Lab ID:

0506948-005

Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual Units	BatchID	Dilution Factor	Date Analyzed
METALS, TOTAL		SW	6010B	(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		6/23/2005 7:00 PM
Lead	BRL	0.0100	mg/L	59043		6/23/2005 7:00 PM
Selenium	BRL	0.0200	mg/L	59043	-	6/23/2005 7:00 PM
Silver	BRL	0.0100	mg/L	59043		6/23/2005 7:00 PM
Thallium	BRL	0.0200	mg/L	59043	•	6/23/2005 7:00 PM
Zinc	0.590	0.0200	mg/L	59043	•	6/23/2005 7:00 PM

Oualifiers

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

- - - -

Project: NL/Atlanta, GA
Lab ID: 0506948-006

Client Sample ID: MW-2

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

Date: 23-Sep-05

Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual Units	BatchID	Dilution Factor	Date Analyzed
METALS, TOTAL		SWe	010B	(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		6/23/2005 7:04 PM
Lead	0.0201	0.0100	mg/L	59043		6/23/2005 7:04 PM
Selenium	BRL	0.0200	mg/L	59043		6/23/2005 7:04 PM
Silver	BRL	0.0100	mg/L	59043		6/23/2005 7:04 PM
Thallium	BRL	0.0200	mg/L	59043		6/23/2005 7:04 PM
Zinc	0.710	0.0200	mg/L	59043		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

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		SW	6010B	(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		6/23/2005 7:08 PM
Copper	0.0223	0.0100	mg/L	59043		6/23/2005 7:08 PM
Lead	1.48	0.0100	mg/L	59043		6/23/2005 7:08 PM
Selenium	BRL	0.0200	mg/L	59043		6/23/2005 7:08 PM
Silver	BRL	0.0100	mg/L	59043	. •	6/23/2005 7:08 PM
Thallium	BRL	0.0200	mg/L	59043		6/23/2005 7:08 PM
Zinc	2.64	0.0200	mg/L	59043	•	6/23/2005 7:08 PM

Oua	lifi	
Ous	ш	ers

- 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

Project: NL/Atlanta, GA Lab ID: 0506948-008

Date: 23-Sep-05

Client Sample ID: MW-6

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

Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual U	J nits	BatchID	Dilution Factor	Date Analyzed
METALS, TOTAL		SW	6010B	(SW3010A)		Analyst: BB
Antimony	BRL	0.0200	m	g/L Ì	59043	1	6/23/2005 7:12 PM
Arsenic	BRL	0.0500	m	g/L	59043	1	6/23/2005 7:12 PM
Cadmium	BRL	0.0050	m	g/L	59043	1	6/23/2005 7:12 PM
Cobait	BRL	0.0200	m	g/L	59043	1	6/23/2005 7:12 PM
Copper	BRL	0.0100	m	g/L	59043	1	6/23/2005 7:12 PM
Lead	BRL	0.0100	m	g/L	59043	1	6/23/2005 7:12 PM
Selenium	BRL	0.0200	m	g/L	59043	1	6/23/2005 7:12 PM
Silver	BRL	0.0100	m	g/L	59043	1	6/23/2005 7:12 PM
Thallium	BRL	0.0200	m	g/L	59043	1	6/23/2005 7:12 PM
Zinc	0.0317	0.0200	m	g/L	59043	1	6/23/2005 7:12 PM
POLYAROMATIC HYDROCARBONS		SW	8270C	(SW3535)		Analyst: JMZ
Naphthalene	280	100	μg	-	59008	10	6/22/2005 6:55 PM
Acenaphthylene	BRL	10	μς	J/L	59008	1	6/22/2005 1:21 PM
1-Methylnaphthalene	66	10	μο	J/L	59008	1	6/22/2005 1:21 PM
2-Methylnaphthalene	120	10	μg	ı/L	59008	1	6/22/2005 1:21 PM
Acenaphthene	BRL	10	μς		59008	1	6/22/2005 1:21 PM
Fluorene	BRL	10	μο		59008	1	6/22/2005 1:21 PM
Phenanthrene	BRL.	10	μο		59008	1	6/22/2005 1:21 PM
Anthracene	BRL	10	μg	J/L	59008	1	6/22/2005 1:21 PM
Fluoranthene	BRL	10	μο	J/L	59008	1	6/22/2005 1:21 PM
Pyrene	BRL	10	μο	J/L	59008	1	6/22/2005 1:21 PM
Benz(a)anthracene	BRL	10	μς	J/L	59008	1	6/22/2005 1:21 PM
Chrysene	BRL.	10	μg	J/L	59008	1	6/22/2005 1:21 PM
Benzo(b)fluoranthene	BRL	10	μο	J/L	59008	1	6/22/2005 1:21 PM
Benzo(k)fluoranthene	BRL	10	μο	J/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	μο	/L	59008	1	6/22/2005 1:21 PM
Benzo(g,h,i)perylene	BRL	10	μο	J/L	59008	1	6/22/2005 1:21 PM
Indeno(1,2,3-cd)pyrene	BRL	10	μς	J/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		SW	3260B	l:	SW5030B)		Analyst: TMP
Benzene	2600	50	hõ		59169	50	6/23/2005 12:34 AM
Toluene	4800	50	μg		59169	50	6/23/2005 12:34 AM
Ethylbenzene	1600	50	μς		59169	50	6/23/2005 12:34 AM
m,p-Xylene	4800	50		/L	59169		6/23/2005 12:34 AM
o-Xylene	1700	50		ı/L	59169		6/23/2005 12:34 AM
Surr: 4-Bromofluorobenzene	122	59.6-144		REC	59169	50	6/23/2005 12:34 AM

Value exceeds Maximum Contaminant Level

BRL Below Reporting Limit

Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

Analyte detected in the associated Method Blank

Estimated (Value above quantitation range) Е

S Surrogate Recovery outside accepted recovery limits

Narr See Case Narrative

NC Not Confirmed

Environmental Strategies Corporation

Project: NL/Atlanta, GA

Lab ID: 0506948-009

CLIENT:

Date: 23-Sep-05

Client Sample ID: TRIP BLANK

Collection Date: 6/19/2005

Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual Units	BatchID	Dilution Factor	Date Analyzed
VOLATILE ORGANICS		SW8	3260B	(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		6/23/2005 3:14 AM
Surr: 4-Bromofluorobenzene	130	59.6-144	%REC	59169		6/23/2005 3:14 AM

- 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

Project:

NL/Atlanta, GA

Lab ID:

0506948-010

Date: 23-Sep-05

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		-	6010B	(CM2040A)	Factor	
Antimony	BRL	0.0200	mg/L	(SW3010A) 59043	1	Analyst: BB 6/23/2005 6:23 PM
Arsenic	BRL	0.0500	mg/L	59043 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	0.0200	mg/L	59043 59043	1	6/23/2005 6:23 PM
Lead	BRL	0.0100	mg/L	59043	1	
Selenium	BRL	0.0200	mg/L	59043 59043		6/23/2005 6:23 PM 6/23/2005 6:23 PM
Silver	BRL	0.0200	_	59043 59043	1 1	
Thallium	BRL	0.0200	mg/L	59043	-	6/23/2005 6:23 PM
Zinc	0.0306	0.0200	mg/L mg/L	59043 59043	1 1	6/23/2005 6:23 PM 6/23/2005 6:23 PM
	0.0000		_			
POLYAROMATIC HYDROCARBONS				(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		sw	8260B	(SW5030B)		Analyst: TMD
Benzene	2500	50	μg/L	59169	50	Analyst: TMP 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 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 50	6/23/2005 1:00 AM
Surr: 4-Bromofluorobenzene	126	59.6-144	%REC			
	120	J 5.0- 144	70REU	59169	50	6/23/2005 1:00 AM

^{*} 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: 0506948

Project: NL/Atlanta, GA

TestCode: 6010B_W_T

ANALYTICAL QC SUMMARY REPORT

Date: 23-Sep-05

Qual %RPD RPDLimit SeqNo: 1331105 RunNo: 67649 LowLimit HighLimit RPD Ref Val Prep Date: 6/21/2005 Analysis Date: 6/23/2005 %REC TestCode: 6010B_W_T Units: mg/L SPK value SPK Ref Val TestNo: SW6010B 0.0100 0.0100 0.0200 0.0200 젙 0.0200 0.0200 0.0500 0.00500 0.0200 Result BR BRL BRL 踞 BRL BRL BRL BRL BRL SampType: MBLK Batch ID: 59043 Sample ID MB-59043 Cadmium Client ID: Selenium Antimony Thallium Analyte Arsenic Copper Cobalt Lead Silver

Sample ID LCS-59043	SampType: LCS	TestCode	Je: 6010B_W_T	Units: mg/L		Prep Date	Prep Date: 6/21/2005	2	RunNo: 67649	489	
Client ID:	Batch ID: 59043	TestNo	4o: SW6010B		•	Analysis Date:	e: 6/23/2005	ĸ	SeqNo: 1331104	31104	
Analyte	Result	Pol	SPK value	SPK Ref Val	%REC	LowLimit	LowLimit HighLimit RPD Ref Val	PD Ref Val	%RPD	RPDLimit	Qual
Antimony	1.08	0.0200	1	0	108	85	115	0	0		
Arsenic	1.066	0.0500	•	0	107	83	115	0	0		
Cadmium	1.038	0.00500	***	0	104	88	115	0	0		
Cobalt	1.044	0.0200	-	0	104	82	115	0	0		
Copper	1.036	0.0100	-	0	104	82	115	0	0		
Lead	1.038	0.0100	_	0	<u>\$</u>	82	115	0	0		
Selenium	1.031	0.0200	-	0	103	82	115	0	0		
Silver	0.1049	0.0100	0.1	0	105	85	115	0	0		
Thallium	1.028	0.0200	-	0	103	82	115	0	0		
Zinc	1.041	0.0200	-	0	<u>\$</u>	85	115	0	0		

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	BRL Below Reporting Limit	ш	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	_	J Analyte detected below quantitation limits	۷ ع	Analyte not NELAC certified
	~	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

Value above quantitation range Analyte not NELAC certified

Environmental Strategies Corporation CLIENT:

0506948 Work Order:

NL/Atlanta, GA Project:

TestCode: 6010B_W_T

ANALYTICAL QC SUMMARY REPORT

Sample ID 0506948-010CMS	SampType: MS	TestCo	TestCode: 6010B_W_T	T Units: mg/L		Prep Date:	: 6/21/2005	90	RunNo: 67649	149	
Client ID: MW-D	Batch ID: 59043	Test	TestNo: SW6010B			Analysis Date:	: 6/23/2005	90	SeqNo: 1331107	11107	
Analyte	Result	Pol	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%REC LowLimit HighLimit RPD Ref Val	%RPD	RPDLimit Qual	Qual
Antimony	1.083	0.0200	-	0	108	75	125	0	0		
Arsenic	1.075	0.0500	-	0	108	75	125	0	0		
Cadmium	1.03	0.00500	-	0	103	75	125	0	0		
Cobalt	1.047	0.0200	-	0.01459	103	75	125	0	0		
Copper	1.027	0.0100	-	0.002018	102	75	125	0	0		
Lead	1.028	0.0100	-	0.003695	102	75	125	0	0		
Selenium	1.032	0.0200	_	0	103	75	125	0	0		
Silver	0.1032	0.0100	0.1	0	103	75	125	0	0		
Thallium	1.013	0.0200	~	0	101	75	125	0	0		
Zinc	1.059	0.0200	~	0.03055	103	75	125	0	0		

Sample ID 0506948-010CMSD	SampType: MSD	TestCoc	TestCode: 6010B_W_T	T Units: mg/L		Prep Date:	6/21/2005	92	RunNo: 67649	¥9	
Client ID: MW-D	Batch ID: 59043	Testh	No: SW6010B			Analysis Date:	6/23/2005	05	SeqNo: 1331108	31108	
Analyte	Result	Pal	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	HighLimit RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	1.089	0.0200	-	0	109	75	125	1.083	0.624	20	
Arsenic	1.082	0.0500	_	0	108	75	125	1.075	0.656	20	
Cadmium	1.037	0.00500	-	0	104	75	125	1.03	0.676	20	
Cobalt	1.053	0.0200	-	0.01459	104	75	125	1.047	0.608	20	
Copper	1.026	0.0100	-	0.002018	102	75	125	1.027	0.0477	20	
Lead	1.033	0.0100	-	0.003695	103	75	125	1.028	0.489	20	
Selenium	1.041	0.0200		0	104	75	125	1.032	0.868	20	
Silver	0.104	0.0100	0.1	0	1 0	75	125	0.1032	0.770	20	
Thallium	1.021	0.0200	-	0	102	75	125	1.013	0.788	20	
Zinc	1.069	0.0200	4	0.03055	104	75	125	1.059	0.944	20	

B Analyte detected in the associated Method Blanl	Holding times for preparation or analysis e	R RPD outside accepted recovery limits
iers:		

RPD outside accepted recovery limits

Analyte detected below quantitation limits BRL Below Reporting Limit

J Analyte detected below qu

S Spike Recovery outside ac

m z Spike Recovery outside accepted recovery limits

Environmental Strategies Corporation CLIENT:

Work Order:

0506948 NL/Atlanta, GA Project:

ANALYTICAL QC SUMMARY REPORT TestCode: 8270_PAH_W

Sample ID MB-59008	SampType: MBLK	TestCod	e: 8270_PAH	TestCode: 8270_PAH_W Units: µg/L		Prep Date:	s: 6/20/2005	905	RunNo: 67398	
Client ID:	Batch ID: 59008	TestN	TestNo: SW8270C			Analysis Date:	6/20/2005	905	SeqNo: 1326180	
Analyte	Result	Pal	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPD	RPDLimit Qual
1-Methylnaphthalene	BRL	9								
2-Methylnaphthalene	BRL	9								
Acenaphthene	BRL	5								
Acenaphthylene	BRL	10								
Anthracene	BRL	10								
Benz(a)anthracene	BRL	5								
Benzo(a)pyrene	BRL	9								
Benzo(b)fluoranthene	BRL	9								
Benzo(g,h,i)perylene	BRL	10								
Benzo(k)fluoranthene	BRL	10								
Chrysene	BRL	5								
Dibenz(a,h)anthracene	BRL	9								
Fluoranthene	BRL	5								
Fluorene	BRL	9								
Indeno(1,2,3-cd)pyrene	BRL	6								
Naphthalene	BRL	5								
Phenanthrene	BRL	9								
Pyrene	BRL	9								
Surr: 2-Fluorobiphenyl	41.69	0	20	0	83.4	46.6	117	0	0	
Surr: 4-Terphenyl-d14	43.91	0	20	0	87.8	34	135	0	0	
Surr: Nitrobenzene-d5	42.34	0	20	0	84.7	26.3	132	0	0	
Sample ID LCS-59008	SampType: LCS	TestCod	TestCode: 8270_PAH_W	W Units: µg/L		Prep Date:	6/20/2005	905	RunNo: 67398	
Client ID:	Batch ID: 59008	TestN	TestNo: SW8270C			Analysis Date:	6/20/2005	905	SeqNo: 1326181	
Analyte	Result	Pol	SPK value	SPK Ref Val	%REC	LowLimit	- - - - - - - - - - - - - - - - - - -	HighLimit RPD Ref Val	%RPD RPD	RPDLimit Qual
Acenaphthene	42.82	10	50	0	85.6	67.4	120	0	0	
Acenaphthylene	54.67	9	20	0	109	64.8	122	0	0	
Anthracene	44.59	9	20	0	89.2	67.3	130	0	0	
Benz(a)anthracene	43.35	10	20	0	86.7	8.69	120	0	0	
Qualifiers: B Analyte d	Analyte detected in the associated Method Blank	lank	BRL Below R	Below Reporting Limit			Э	Value above quantitation range	titation range	
H Holding t	Holding times for preparation or analysis exceeded	ceeded	J Analyte	Analyte detected below quantitation limits	titation limi	s	z	Analyte not NELAC certified	C certified	
R RPD outs	RPD outside accepted recovery limits		S Spike Re	Spike Recovery outside accepted recovery limits	pted recover	y limits				Page 3 of 8

Environmental Strategies Corporation CLIENT:

0506948 Work Order:

NL/Atlanta, GA

Project:

ANALYTICAL QC SUMMARY REPORT TestCode: 8270_PAH_W

Sample ID LCS-59008	8008	SampType: LCS	SO-	TestCode:	8270_PA	TestCode: 8270_PAH_W Units: µg/L		Prep Date:	e: 6/20/2005	905	RunNo: 67398	398	
Client ID:		Batch ID: 59008	19008	TestNo:	TestNo: SW8270C		•	Analysis Date:	e: 6/20/2005	905	SeqNo: 1326181	126181	
Analyte		-	Result	POLS	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(a)pyrene			47.21	10	92	0	94.4	56.8	127	0	0		
Benzo(b)fluoranthene	ane.		45.43	9	20	0	6.06	52.1	127	0	0		
Benzo(g,h,i)perylene	Э с		48.93	10	20	0	97.9	45.8	144	0	0		
Benzo(k)fluoranthene	ine		52.32	10	20	0	105	49.4	137	0	0		
Chrysene			45.19	9	20	0	4.06	70.6	120	0	0		
Dibenz(a,h)anthracene	ene		46.93	6	20	0	93.9	47.7	138	0	0		
Fluoranthene			42.89	9	20	0	82.8	9.69	120	0	0		
Fluorene			44.68	9	20	0	89.4	68.6	120	0	0		
Indeno(1,2,3-cd)pyrene	rene		42.86	9	20	0	85.7	52.6	134	0	0		
Naphthalene			40.15	9	22	0	80.3	62.6	120	0	0		
Phenanthrene			44.86	9	20	0	89.7	70.1	120	0	0		
Pyrene			44.81	9	90	0	9.68	9.99	123	0	0		
Surr: 2-Fluorobiphenyl	henyl		43.23	0	20	0	86.5	46.6	117	0	0		
Surr: 4-Terphenyl-d14	/I-d14	•	44.97	0	20	0	89.9	8	135	0	0		
Surr: Nitrobenzene-d5	ne-d5		43.17	0	20	0	86.3	26.3	132	0	0		
	0.000								Ш				
Sample ID 000808-001.CM3	CM3.100-87	Sampighe: MO		BSICOGE: 82/0_FAN_W	07/0/J	W Ones hgv.		riep Date:	e. 0/20/2005	2	MUINO: 05	989 /0	•
Client ID:		Batch ID: 50	59008	TestNo:	TestNo: SW8270C		•	Analysis Date:	e: 6/20/2005	905	SeqNo: 1326184	26184	
Analyte		u.	Result	Pal	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene			27.45	5	20	0	54.9	54.2	120	0	0		
Acenaphthylene			34.72	9	20	0	69.4	55.9	123	.0	0		
Anthracene			42.07	5	20	0	2 .	62	124	0	0		
Benz(a)anthracene		•	40.37	9	20	0	80.7	55.3	120	0			
Benzo(a)pyrene		•	44.45	10	20	0	88.9	42	128	0	0		
Benzo(b)fluoranthene	ne		43.3	10	20	0	9.98	40.4	126	0	0		
Benzo(g,h,i)perylene	ō	,	43.73	10	20	0	87.5	27.5	146	0	0		
Benzo(k)fluoranthene	ne	•	48.39	10	20	0	96.8	39.2	132	0	0		
Chrysene		•	42.57	9	20	0	85.1	54.7	120	0	0		
Dibenz(a,h)anthracene	ene	•	44.51	5	20	0	88	32.6	1	0	0		
Qualifiers: B	Analyte detex	Analyte detected in the associated Method Blank	ed Method Blank		BRL Below	Below Reporting Limit			Э	Value above quantitation range	ititation range		
Н	Holding time	Holding times for preparation or analysis exceeded	r analysis exceed		•	Analyte detected below quantitation limits	titation limit	Š	z	Analyte not NELAC certified	AC certified		
~	RPD outside	RPD outside accepted recovery limits	limits		S Spike F	Spike Recovery outside accepted recovery limits	pted recover	y limits				Pa	Page 4 of 8

rage Julo

Environmental Strategies Corporation CLIENT:

Work Order:

0506948 NL/Atlanta, GA

Project:

TestCode: 8270_PAH_W

ANALYTICAL QC SUMMARY REPORT

Sample ID 0506909-001CMS	SampType: MS	TestCode:	8270_PAH	TestCode: 8270_PAH_W Units: µg/L		Prep Date:	6/20/2005	S)	RunNo: 67398	868	
Client ID:	Batch ID: 59008	TestNo:	TestNo: SW8270C			Analysis Date:	6/20/2005	ιņ	SeqNo: 1326184	26184	.,
Analyte	Result	Pol	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoranthene	42.31	10	20	0	84.6	61.2	120	0	0		
Fluorene	31.33	9	20	0	62.7	59.1	120	0	0		
Indeno(1,2,3-cd)pyrene	38	5	20	0	76	35.3	140	0	0		
Naphthalene	30.11	9	20	0	60.2	39.4	120	0	0		
Phenanthrene	42.46	9	20	0	84.9	62.1	120	0	0		
Pyrene	42.89	9	20	0	85.8	47.9	131	0	0		
Surr: 2-Fluorobiphenyl	24.58	0	20	0	49.2	46.6	117	0	0		
Surr: 4-Terphenyi-d14	38.04	0	20	0	76.1	34	135	0	0		
Surr: Nitrobenzene-d5	35.23	0	20	0	70.5	26.3	132	0	0		
Sample ID 0506909-001CMSD	SampType: MSD	TestCode:	TestCode: 8270_PAH_W	W Units: µg/L		Prep Date:	6/20/2005	2	RunNo: 67398	86	
Client ID:	Batch ID: 59008	TestNo:	TestNo: SW8270C			Analysis Date:	6/20/2005	ю.	SeqNo: 1326185	6185	
Analyte	Result	Pol	SPK value	SPK Ref Val	%REC	LowLimit H	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	31.95	5	20	0	63.9	54.2	120	27.45	15.2	29	
Acenaphthylene	39.27	9	20	0	78.5	55.9	123	34.72	12.3	19.1	
Anthracene	44.37	9	20	0	88.7	62	124	42.07	5.32	19.3	
Benz(a)anthracene	40.03	10	20	0	80.1	55.3	120	40.37	0.846	21.7	
Benzo(a)pyrene	43.75	10	20	0	87.5	42	128	44.45	1.59	24.1	
Benzo(b)fluoranthene	44.66	10	20	0	89.3	40.4	126	43.3	3.09	24.1	
Benzo(g,h,i)perylene	42.51	10	20	0	82	27.5	146	43.73	2.83	27.9	
Benzo(k)fluoranthene	48.36	5	20	0	2.96	39.2	132	48.39	0.0620	24.9	
Chrysene	41.67	5	20	0	83.3	54.7	120	42.57	2.14	22.2	
Dibenz(a,h)anthracene	43.99	5	20	0	88	32.6	141	44.51	1.18	27.4	
Fluoranthene	42.82	9	20	0	85.6	61.2	120	42.31	1.20	18.7	
Fluorene	34.1	10	20	0	68.2	59.1	120	31.33	8.47	19.5	
Indeno(1,2,3-cd)pyrene	37.33	10	20	0	74.7	35.3	140	38	1.78	26.6	
Naphthalene	37.1	10	20	0	74.2	39.4	120	30.11	20.8	21	
Phenanthrene	44.04	10	20	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 detect	Analyte detected in the associated Method Blank		BRL Below F	Below Reporting Limit			E Va	Value above quantitation range	itation range		
H Holding times	Holding times for preparation or analysis exceeded		J Analyte	Analyte detected below quantitation limits	titation limi	23	Z An	Analyte not NELAC certified	C certified		
R RPD outside a	RPD outside accepted recovery limits		S Spike R	Spike Recovery outside accepted recovery limits	pted recover	y limits				Pc	Page 5 of 8

Value above quantitation range Analyte not NELAC certified

> Spike Recovery outside accepted recovery limits Analyte detected below quantitation limits

BRL Below Reporting Limit

Holding times for preparation or analysis exceeded Analyte detected in the associated Method Blank

RPD outside accepted recovery limits

HW М

Qualifiers:

Environmental Strategies Corporation CLIENT:

0506948 Work Order:

NL/Atlanta, GA Project:

TestCode: 8270_PAH_W

ANALYTICAL QC SUMMARY REPORT

Sample ID 0506909-001CMSD	SampType: MSD	TestCo	Je: 8270_PAH	TestCode: 8270_PAH_W Units: µg/L		Prep Dat	Prep Date: 6/20/2005	90	RunNo: 67:398	398	
Client ID:	Batch ID: 59008	Testh	TestNo: SW8270C			Analysis Date: 6/20/2005	e: 6/20/20	05	SeqNo: 1326185	26185	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	LowLimit HighLimit RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	29.89	٥	20	0	59.8	46.6	117	24.58	0	0	
Surr: 4-Terphenyi-d14	38.03	0	50	0	76.1	33	135	38.04	0	0	
Surr: Nitrobenzene-d5	43.1	0	20	0	86.2	26.3	132	35.23	0	0	

Page 7 of 8

Environmental Strategies Corporation CLIENT:

0506948 Work Order: NL/Atlanta, GA Project:

ANALYTICAL QC SUMMARY REPORT

TestCode: BTEX_W-MS

SampType: MS MS MS MS MS MS MS MS	Sample ID MR.50180	SampTone: MBI K	TestCo	de RTEX W.	MS (Inits: 110/I		Pren Date	Pren Date: 6/22/2005		RunNo: 67551	
Patch Dissolute Patch Dissolute Patch SPK value SPK Ref Val %REC LowLinit HighLinit RPD Ref Val %RPD Sequenci 122 SPK value SPK Ref Val %REC LowLinit HighLinit RPD Ref Val %RPD Sequenci SPK value SPK Ref Val %REC LowLinit HighLinit RPD Ref Val %RPD Sequenci SPK value SPK Ref Val %REC LowLinit HighLinit RPD Ref Val %RPD Sequenci SPK Ref Val %REC LowLinit HighLinit RPD Ref Val %RPD Sequenci SPK Ref Val %REC LowLinit HighLinit RPD Ref Val %RPD SPK Ref Val %REC LowLinit HighLinit RPD Ref Val %RPD SPK Ref Val %REC LowLinit HighLinit RPD Ref Val %RPD SPK Ref Val %RPD SPK Ref Val %REC SPK Ref Val %RPD SPK Ref Val %REC SP		100 E					2				
BRL 1.0	Client ID:	Batch ID: 59169	Test	No: SW8260B			Analysis Date			SeqNo: 1329402	
BRL 1.0 BRL	Analyte	Result	PaL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit RPC	Ref Val	%RPD RPDLimit	nit Qual
PRL 1.0 PRL PRL	Benzene	BRL	1.0								
SHL 10 10 10 10 10 10 10 1	Ethylbenzene	BRL	1.0								
BRL 1.0	m,p-Xylene	BRL	1.0								
Heading participation Head	o-Xylene	BRL	1.0								
10 LCS-59169 SampType: LCS TestCode: BTEX_W-MS Units: µg/L Analysis Date: G/222005 Runko: G/522005 Runko	Toluene	BRL	1.0								
D LCS-59169 SampType: LCS TestNode: BTEX_W-MS Units: µg/L Prep Date: 6/22/2005 SunNo: 1323 SunNo: 1324 Septon	Surr: 4-Bromofluorobenzene	63.11	0	50	0	126	59.6	144	0	0	
Poll Seyto Poll Seyto Seyto	Sample ID LCS-59169	SampType: LCS	TestCo	de: BTEX_W-I	l i		Prep Date	1		RunNo: 67551	
Political Poli	Client ID:	Batch ID: 59169	Test	No: SW8260B			Analysis Date			SeqNo: 1329405	
ensistene 57.98 1.0 50 0 116 74.9 126 0 0 razene 47.04 1.0 50 0 94.1 85.1 126 0 0 eneme 47.04 1.0 50 0 94.1 85.1 126 0 0 eneme 46.95 1.0 50 0 94.8 81.7 129 0 0 4-Bromnfluorobenzene 63.61 1.0 50 0 94.8 81.3 125 0 0 1D 050097-004MS SampType: MS 1.0 50 0 91.8 81.3 125 0 0 1D 050097-004MS SampType: MS TestCode: BTEX_WMS Units: lg/l. Analysis Date: G/22/2005 R/22/2005	Analyte	Result	Pol	SPK value	SPK Ref Val	%REC			Ref Val	%RPD RPDLimit	nit Qual
10 10 10 10 10 10 10 10	Benzene	57.98	1.0	99	0	116	74.9	126	0	0	
enemetation 94.95 1.0 100 0 95 84.5 128 0 0 enemetation 46.95 1.0 50 0 93.9 81.7 129 0 0 4-Bromofluorobenzene 63.61 1.0 50 0 91.8 81.3 125 0 0 1D 0506967-004AMS SampType: MS 1.0 50 0 91.8 81.3 125 0 0 1D 0506967-004AMS SampType: MS TestCode: BTEX_W-MS Units: µg/L Prep Date: 6/22/2005 Rank	Ethylbenzene	47.04	1.0	20	0	94.1	85.1	126	0	0	
46.95 1.0 50 0 93.9 81.7 129 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	m,p-Xylene	94.95	1.0	100	0	92	84.5	128	0	0	
4-Bromofluoroberizene 63.61 10 50	o-Xylene	46.95	1.0	90	0	93.9	81.7	129	0	0	
12 12 12 12 12 12 12 12	Toluene	45.9	1.0	90	0	91.8	81.3	125	0	0	
D 0506967-004AMS SampType: MS TestCode: BTEX_W-MS Units: µg/L Analysis Date: 6/22/2005 RunNo: 673/2005 Sqnor: 1322	Surr: 4-Bromofluorobenzene	63.61	0	20	0	127	59.6	144	0	0	
Discription Sequencial party Testhon Sw8260B Testhon Sw8260B Analysis Date: 6/23/2005 6/23/2005 Sequencial party	Sample ID 0506967-004AMS	SampType: MS	TestCo	de: BTEX_W-I	MS Units: µg/L		Prep Date			RunNo: 67551	
Result PQL, SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD and Table 47.14 1.0 50 0 117 69.7 128 0 0 ene 95.58 1.0 50 0 94.3 77 131 0 0 ene 95.58 1.0 10 95.6 76.6 132 0 0 0 ene 48.9 1.0 50 0 96.6 71.5 136 0	Client ID:	Batch ID: 59169	Test	No: SW8260B			Analysis Date			SeqNo: 1329428	
zene 47.14 1.0 50 0 117 69.7 128 0 0 10 40.3 77 131 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Analyte	Result	Po	SPK value	SPK Ref Val	%REC		HighLimit RPD	Ref Val	%RPD RPDLimit	iit Qual
zene 47.14 1.0 50 0 94.3 77 131 0 ne 95.58 1.0 100 0 95.6 76.6 132 0 48.3 1.0 50 0 94.6 71.5 136 0 48.9 1.0 50 0 94 76.2 128 0 48.9 1.0 50 0 128 59.6 144 0 0	Benzene	58.3	1.0	99	0	117	69.7	128	0	0	
ne 95.58 1.0 100 0 95.6 76.6 132 0 48.3 1.0 50 0 96.6 71.5 136 0 46.99 1.0 50 0 94 76.2 128 0 6.0 128 59.6 144 0	Ethylbenzene	47.14	1.0	90	0	94.3	11	131	0	0	
48.3 1.0 50 0 96.6 71.5 136 0 46.99 1.0 50 0 94 76.2 128 0Broundinorhanzana 64.15 0 50 0 128 59.6 144 0	m,p-Xylene	95.58	1.0	100	0	92.6	9.92	132	0	0	
46.99 1.0 50 0 94 76.2 128 0 1.8 mm/filiomhanzana 64.15 0 50 0 128 59.6 144 0	o-Xylene	48.3	1.0	50	0	9.96	71.5	136	0	0	
64.15 0 50 0 128 59.6 144 0	Toluene	46.99	1.0	20	0	28	76.2	128	0	0	
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Surr: 4-Bromofluorobenzene	64.15	0	20	0	128	9.69	144	0	0	

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

Spike Recovery outside accepted recovery limits BRL Below Reporting Limit

J Analyte detected below quantitation limits

S pike Recovery outside accepted recovery li

Value above quantitation range Analyte not NELAC certified m z

Environmental Strategies Corporation CLIENT:

ANALYTICAL QC SUMMARY REPORT

TestCode: BTEX_W-MS

0506948 Work Order:

NL/Atlanta, GA Project:

Sample ID 0506967-004AMSD SampType: MSD	SampType: MSD	TestCo	de: BTEX_W-	TestCode: BTEX_W-MS Units: µg/L		Prep Dat	Prep Date: 6/22/2005	05	RunNo: 67551	551	
Client ID:	Batch ID: 59169	Test	TestNo: SW8260B		•	Analysis Date: 6/23/2005	e: 6/23/20	02	SeqNo: 1329430	29430	
Analyte	Result	Pol	SPK value	SPK value SPK Ref Val	%REC	LowLimit	HighLimit	%REC LowLimit HighLimit RPD Ref Val	%RPD	%RPD RPDLimit	Qual
Benzene	56.87	1.0	90	0	114	69.7	128	58.3	2.48	20	
Ethylbenzene	46.57	1.0	20	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	20	0	93.8	71.5	136	48.3	2.90	20	
Toluene	45.61	1.0	20	0	91.2	76.2	128	46.99	2.98	20	
Surr: 4-Bromofluorobenzene	63.46	0	20	0	127	59.6	144	64.15	0	0	

Ф	Analyte detected in the associated Method Blank	BRL	BRL Below Reporting Limit	E Value abor	ve quantitation range
H	Holding times for preparation or analysis exceeded	ſ	Analyte detected below quantitation limits	Analyte no	ot NELAC certified
~	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

127562/04 NL/Atlanta, GA		Matrices: S = Soil; Aq = Water				12	8	Requested Analyses	natyses / No.038408
Sampler's Name(s): Giselle Beaulieu		A = Air; Bu = Bulk; W = Wipe Bi = Biota;	Bulk;	U. I. C.	90	5250 SCS	1208		
Sampler's Signature(s):		OW = Oily Waste; O = Other	aste;	o To Toda	SHAS (W)	25000 H 40000	20		
Sample Identification:	Date	Time	Matrix		5	12	\	/	/ / Remarks
MW-4	5/2,	16:53	Ag	1	×				Samples chilled on
MW-3	100	18:05	49	X					wetice.
MW-5	1	19:52	400	×	×	×			
MW-1	5/211.	9:25	400	5	X	X			
MW-7	901	10:45	Ag	5	X	X			
MW-2		11:36	400	20	X	X			
MW-10		14:30	Ag	5	×	×			
MW-8	1	15:45	A. 20	2	×	×			
MW-9	5/25/	10:35	Age	5	×	X			
MW-6	3	14:45	40	N		X	1		
MW-7D	2/17/06	11:42	Sp	/ /	×				
MW-100	5/25/06	16:00	Ado	N	X	X			
Trip Blank	1	1		7		×			
- End				-			-		
								74	
by (Signature): - 5/26/12	Receiyed by (Signature):	re):	CILENT		Laboratory Name:	Name:	-		
Date Time	th.	Stelo	1:00		oratory	Laboratory Location:	,		
Relinquished by (Signature): Recéived Date Time	Received by (Signature):	re):		Cus	44 tody Sea	Atlanta Custody Seal Numbers:	5 1	1	Description Supplied to the su
Turn-Around Time: Standard Tracking Number:	Number:	1		Mei	hod of S	Method of Shipment: Self	self	199	A QUANTA Technical Services Company
 □ Reston Office: 11911 Freedom Dr, # 900, Reston, VA 20190 Tel: (703) 709-6500, Fax: (703) 709-8505 □ Pittsburgh Office: 300 Corporate Center Dr, # 200, Moon Twp, PA 15108 Tel: (412) 604-1040, Fax: (412) 604-1055 	0, Reston, 7 305 Dr. # 200,	VA 20190 Moon Twp	, PA 15	801		☐ Denve Tel: (3 ☐ Minne Tel: (4	r Office: (03) 850 apolis O	4600 South 9200, Fax: (7 ffice: 123 No	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

Sample/Cooler Receipt Checklist

Client Env. Strategies		Work Order Num	ber 0605 G32
Checklist completed by Hamed Sugnature Date	5/26/06	5	·
Carrier name: FedEx UPS Courier Client US	S Mail Other	•	
Shipping container/cooler in good condition?	Yes 👱	No _ Not I	Present
Custody seals intact on shipping container/cooler?	Yes	No _ Not I	Present
Custody seals intact on sample bottles?	Yes _	No Not F	Present $\underline{\hspace{0.1cm}}$
Container/Temp Blank temperature in compliance? (4°C±2)*	Yes <u>~</u>	No	
Cooler #1 2.5° 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 su	bmitted	Yes 👱	No
Water - pH acceptable upon receipt?	Yes 🔽	No _ Not.	Applicable
Adjusted?			
Sample Condition: Good V Other(Explain)			
(For diffusive samples or AIHA lead) Is a known blank includ-	ed? Yes	No 🗸	

See Case Narrative for resolution of the Non-Conformance.

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

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

Date: 02-Jun-06

CLIENT:

Environmental Strategies Corporation

NL Atlanta

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

Project: Lab ID:

0605G32-001

Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual Unit	s BatchID	Dilution Factor	Date Analyzed
METALS, TOTAL		SW	6010B	(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:

BRL Below Reporting Limit

N Analyte not NELAC certified

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

Value exceeds Maximum Contaminant Level

Н Holding times for preparation or analysis exceeded

Date: 02-Jun-06

CLIENT:

Environmental Strategies Corporation

Client Sample ID: MW-3

Project:

NL Atlanta

Collection Date: 5/23/2006 6:05:00 PM

Lab ID:

0605G32-002

Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual Units	BatchID	Dilution Factor	Date Analyzed
METALS, TOTAL		SWe	010B	(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

Page 2 of 25

Date: 02-Jun-06

CLIENT:

Environmental Strategies Corporation

Client Sample ID: MW-5

Project:

NL Atlanta

Collection Date: 5/23/2006 7:52:00 PM

Lab ID:

0605G32-003

Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual Units	BatchID	Dilution Factor	Date Analyzed
METALS, TOTAL		sw	6010B	(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		sw	8270C	(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/∟	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	μ g/ 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	μ g/ 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		sw	8260B	(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

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

Date: 02-Jun-06

CLIENT: Project:

Lab ID:

Environmental Strategies Corporation

NL Atlanta 0605G32-003 Client Sample ID: MW-5

Collection Date: 5/23/2006 7:52:00 PM

Matrix: AQUEOUS

Analyses	7 × 10	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANIC	cs		SW	8260B		(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
Isopropyibenzene		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-Bromofluorobenz	ene	76.0	63.7-115		%REC	71407	1	5/29/2006 9:25 PM
Surr: Dibromofluorometh	nane	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

Value exceeds Maximum Contaminant Level

BRL Below Reporting Limit

Н Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

Analyte detected in the associated Method Blank

Е Estimated (Value above quantitation range)

S Surrogate Recovery outside accepted recovery limits

Narr See Case Narrative

Not Confirmed NC

Date: 02-Jun-06

CLIENT:

Environmental Strategies Corporation

NL Atlanta

Client Sample ID: MW-1

Project: Lab ID:

Collection Date: 5/24/2006 9:25:00 AM

0605G32-004

Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual Units	BatchID	Dilution Factor	Date Analyzed
METALS, TOTAL		SW60)10B	(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		SW82	270C	(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		SW82	260B	(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

Value exceeds Maximum Contaminant Level

BRL Below Reporting Limit

Η Holding times for preparation or analysis exceeded

Ν Analyte not NELAC certified

Analyte detected in the associated Method Blank

Ε Estimated (Value above quantitation range)

S Surrogate Recovery outside accepted recovery limits

Narr See Case Narrative

NC Not Confirmed

Date: 02-Jun-06

CLIENT:

Environmental Strategies Corporation

Project: Lab ID:

NL Atlanta 0605G32-004 Client Sample ID: MW-1

ect: NL Atlanta

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		SW	/8260B (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
Trichiorofluoromethane	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

^{*} 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

Date: 02-Jun-06

CLIENT:

Environmental Strategies Corporation

Client Sample ID: MW-7

Project:

NL Atlanta

Collection Date: 5/24/2006 10:45:00 AM

Lab ID:

0605G32-005

Matrix: AQUEOUS

	Denouting Dilution						
Analyses	Result	Reporting Limit	Qual Units	BatchID	Dilution Factor	Date Analyzed	
METALS, TOTAL		SW60	10B	(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		SW82	70C	(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		SW82	60B	(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 μg/L	71407	1	5/29/2006 10:15 PM	
1,2-Dichloropropane	BRL	5.0 5.0		71407 71407	1	5/29/2006 10:15 PM	
1,3-Dichlorobenzene	BRL	5.0 5.0	µg/L		1		
			μg/L	71407		5/29/2006 10:15 PM	
1,4-Dichlorobenzene	BRL	5.0	μg/L	71407	1	5/29/2006 10:15 PM	

^{*} 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

Date: 02-Jun-06

CLIENT:

Environmental Strategies Corporation

Project:

NL Atlanta

Client Sample ID: MW-7

Collection Date: 5/24/2006 10:45:00 AM

Lab ID:

0605G32-005

Matrix: AQUEOUS

Analyses	D	Reporting	S O1 FT24-	D _ 4 . 1. 1200	Dilution	D. 4
THRIPSES	Result	Limit	Qual Units	BatchID	Factor	Date Analyzed
TCL VOLATILE ORGANICS		SW	/8260B (S	W5030B)		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	μ g/ L	71407	1	5/29/2006 10:15 PM
Bromodichloromethane	BRL	5.0	μ g/ 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
Tetrachioroethene	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

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

Project:

NL Atlanta

Client Sample ID: MW-2

Lab ID:

0605G32-006

Collection Date: 5/24/2006 11:36:00 AM

Matrix: AQUEOUS

Date: 02-Jun-06

Analyses	Result	Reporting Limit	Qual Units	BatchID	Dilution Factor	Date Analyzed
METALS, TOTAL		SW6)10B (S\	W3010A)		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		SW8	270C (SV	N3535)		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-Methylnaphthaiene	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		SW82	260B (SV	V5030B)		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	μ g/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		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 μg/L	71407	1	5/29/2006 10:40 PM

Value exceeds Maximum Contaminant Level

BRL Below Reporting Limit

Holding times for preparation or analysis exceeded Η

N Analyte not NELAC certified

В Analyte detected in the associated Method Blank

E Estimated (Value above quantitation range)

S Surrogate Recovery outside accepted recovery limits

See Case Narrative Narr

Not Confirmed

Date: 02-Jun-06

CLIENT:

Environmental Strategies Corporation

NL Atlanta

Client Sample ID: MW-2

Project:

2-7 = 1

Collection Date: 5/24/2006 11:36:00 AM

Lab ID: 0605G32-006

Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual Units	BatchID	Dilution Factor	Date Analyzed	
TCL VOLATILE ORGANICS		sw	8260B (S	W5030B)		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	71 407	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	71 407	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	
Chiorobenzene	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	
Chioroform	BRL	5.0	μg/L	71407	1	5/29/2006 10:40 PM	
Chioromethane	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	i	5/29/2006 10:40 PM	
Surr: Toluene-d8	87.7	73.4-115	%REC	71407	i	5/29/2006 10:40 PM	

Value exceeds Maximum Contaminant Level

BRL Below Reporting Limit

Н Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

В Analyte detected in the associated Method Blank

E Estimated (Value above quantitation range)

^{\$} Surrogate Recovery outside accepted recovery limits

Narr See Case Narrative

NC Not Confirmed

Date: 02-Jun-06

CLIENT:

Environmental Strategies Corporation

Project:

NL Atlanta

Client Sample ID: MW-10

Collection Date: 5/24/2006 2:30:00 PM

Lab ID:

0605G32-007

Matrix: AQUEOUS

				Maula. A		
Analyses	Result	Reporting Limit	Qual Units	BatchID	Dilution Factor	Date Analyzed
METALS, TOTAL		SW60	10B (S	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		SW82	70C (9	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		SW82	60B (5	SW5030B)		Analyst: HW
1,1,1-Trichloroethane	BRL	5.0	μg/L	71407	1	5/29/2006 11:04 PM
1,1,2,2-Tetrachioroethane	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

Value exceeds Maximum Contaminant Level

BRL Below Reporting Limit

Holding times for preparation or analysis exceeded

Analyte not NELAC certified

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

Date: 02-Jun-06

CLIENT:

Environmental Strategies Corporation

Project:

NL Atlanta

Client Sample ID: MW-10

Collection Date: 5/24/2006 2:30:00 PM

Lab ID:

0605G32-007

Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		SW	8260B (S	W5030B)		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

Value exceeds Maximum Contaminant Level

BRL Below Reporting Limit

Н Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

В 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

Date: 02-Jun-06

CLIENT:

Environmental Strategies Corporation

Project:

NL Atlanta

Client Sample ID: MW-8

Collection Date: 5/24/2006 3:45:00 PM

Lab ID:

0605G32-008

Matrix: AQUEOUS

	Matrix: AQUEOUS					
Analyses	Result	Reporting Limit	Qual Units	BatchID	Dilution Factor	Date Analyzed
METALS, TOTAL		SW60	10B	(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		SW82	70C	(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		SW82	60B	(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		5/29/2006 11:29 PM
1,2-Dichloroethane	BRL	5.0	µg/L	71407		5/29/2006 11:29 PM
1,2-Dichloropropane	BRL	5.0	μg/L	71407		5/29/2006 11:29 PM
1,3-Dichlorobenzene	BRL	5.0	μg/L	71 4 07 71 407		5/29/2006 11:29 PM
1,4-Dichlorobenzene	BRL	5.0	μg/L	71 4 07 71407		
,	DI/E	5.5	₽9/L	/ 140/	ı	5/29/2006 11:29 PM

Value exceeds Maximum Contaminant Level

BRL Below Reporting Limit

Н Holding times for preparation or analysis exceeded

NAnalyte not NELAC certified

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

Date: 02-Jun-06

CLIENT:

Environmental Strategies Corporation

NL Atlanta

Client Sample ID: MW-8

Project:

Collection Date: 5/24/2006 3:45:00 PM

Lab ID: 0605G32-008

Matrix: AQUEOUS

Analyses	Result	Reportin	^g Qual Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		sv	/8260B (S	W5030B)	· · · · · ·	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	-	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

Value exceeds Maximum Contaminant Level

BRL Below Reporting Limit

Н Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

В 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

Date: 02-Jun-06

CLIENT:

Environmental Strategies Corporation

Project:

NL Atlanta

Client Sample ID: MW-9

Collection Date: 5/25/2006 10:35:00 AM

Lab ID:

0605G32-009

Matrix: AQUEOUS

Analyses	/ Kesult	Reporting Limit	Qual Units	BatchID	Dilution Factor	Date Analyzed
METALS, TOTAL		SW60	10B (S	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		SW82	.70C (S	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	μ g/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	-	6/1/2006 12:21 AM
Dibenz(a,h)anthracene	BRL	10	μg/L	71369		6/1/2006 12:21 AM
Benzo(g,h,i)perylene	BRL	10	μg/L	71369		6/1/2006 12:21 AM
Indeno(1,2,3-cd)pyrene	BRL	10	μg/L	71369	-	6/1/2006 12:21 AM
Surr: Nitrobenzene-d5	75.5	29.9-115	%REC	71369	-	6/1/2006 12:21 AM
Surr: 2-Fluorobiphenyl	72.1	46.6-115	%REC	71369		6/1/2006 12:21 AM
Surr: 4-Terphenyl-d14	98.3	55.9-118	%REC	71369		6/1/2006 12:21 AM
TCL VOLATILE ORGANICS		SW82	ene (e	W5030B)		
1,1,1-Trichloroethane	BRL	5.0	μg/L	71407	1	Analyst: HW 5/29/2006 11:54 PM
1,1,2,2-Tetrachloroethane	BRL	5.0	μg/L	71407		5/29/2006 11:54 PM
1,1,2-Trichloroethane	BRL	5.0	μg/L	71407		5/29/2006 11:54 PM
1,1-Dichloroethane	BRL	5.0	μg/L	71407		5/29/2006 11:54 PM
1,1-Dichloroethene	BRL	5.0	μg/L	71407	•	5/29/2006 11:54 PM
1,2,4-Trichlorobenzene	BRL	5.0	μg/L	71407	· ·	5/29/2006 11:54 PM
1,2-Dibromo-3-chloropropane	BRL	5.0	μg/L	71407		5/29/2006 11:54 PM
1,2-Dibromoethane	BRL	5.0	μg/L	71407		
1,2-Dichlorobenzene	BRL	5.0				5/29/2006 11:54 PM
1,2-Dichloroethane	BRL	5.0 5.0	μg/L μg/L	71407 71407		5/29/2006 11:54 PM
1,2-Dichloropropane	BRL	5.0	μg/L	71407		5/29/2006 11:54 PM
1,3-Dichlorobenzene	BRL	5.0		71407		5/29/2006 11:54 PM
1,4-Dichlorobenzene	BRL	5.0	µg/L			5/29/2006 11:54 PM
.,	DIL	5.0	μg/L	71407	1	5/29/2006 11:54 PM

Value exceeds Maximum Contaminant Level

BRL Below Reporting Limit

Н Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

В Analyte detected in the associated Method Blank

E Estimated (Value above quantitation range)

S Surrogate Recovery outside accepted recovery limits

Narr See Case Narrative

Not Confirmed NC

CLIENT:

Environmental Strategies Corporation

Project: Lab ID: NL Atlanta

Client Sample ID: MW-9

0605G32-009

Collection Date: 5/25/2006 10:35:00 AM

Date: 02-Jun-06

Matrix: AQUEOUS

Analyses	Result	Reportin Limit	g Qual Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		SV	V8260B (S	W5030B)		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

Value exceeds Maximum Contaminant Level

BRL Below Reporting Limit

Holding times for preparation or analysis exceeded H

N Analyte not NELAC certified

Analyte detected in the associated Method Blank

E Estimated (Value above quantitation range)

S Surrogate Recovery outside accepted recovery limits

Narr See Case Narrative

Not Confirmed NC

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

Result	Reporting	Qual Uni	ts RatchID	Dilution	Date Analyzed
	Limit			Factor	
201			•	_	Analyst: BB
		_	-		5/31/2006 6:05 PM
		•		-	5/31/2006 6:05 PM
		•		•	5/31/2006 6:05 PM
0.0288	0.0200	mg/L	71418	1	5/31/2006 6:05 PM
	SW8	270C	(SW3535)		Analyst: DA
130	10	μg/L	71369	1	6/1/2006 12:53 AM
BRL.	10	μg/L	71369	1	6/1/2006 12:53 AM
25	10	μg/L	71369	1	6/1/2006 12:53 AM
49	10	μg/L	71369	1	6/1/2006 12:53 AM
BRL	10	μg/L	71369	1	6/1/2006 12:53 AM
BRL	10	μg/L	71369	1	6/1/2006 12:53 AM
BRL	10	μg/L	71369	1	6/1/2006 12:53 AM
BRL	10	µg/L	71369	1	6/1/2006 12:53 AM
BRL	10	_	71369	1	6/1/2006 12:53 AM
BRL	10		71369	1	6/1/2006 12:53 AM
BRL	10		71369	1	6/1/2006 12:53 AM
BRL	10	- -	71369	1	6/1/2006 12:53 AM
BRL	10		71369	1	6/1/2006 12:53 AM
BRL	10		71369	1	6/1/2006 12:53 AM
BRL	10		71369	1	6/1/2006 12:53 AM
BRL	10		71369	1	6/1/2006 12:53 AM
BRL	10			1	6/1/2006 12:53 AM
BRL	10			=	6/1/2006 12:53 AM
45.0	29.9-115			1	6/1/2006 12:53 AM
69.1	46.6-115	%RE		1	6/1/2006 12:53 AM
90.8	55.9-118			1	6/1/2006 12:53 AM
	CMO			•	
BD1			•	4	Analyst: HW
					5/30/2006 12:20 AM
				=	5/30/2006 12:20 AM
				-	5/30/2006 12:20 AM
				•	5/30/2006 12:20 AM
		·		-	5/30/2006 12:20 AM
					5/30/2006 12:20 AM
					5/30/2006 12:20 AM
					5/30/2006 12:20 AM
					5/30/2006 12:20 AM
					5/30/2006 12:20 AM
					5/30/2006 12:20 AM
					5/30/2006 12:20 AM
BRL	5.0	µg/L	71407	1	5/30/2006 12:20 AM
	BRL 25 49 BRL	SW6 BRL 0.0050 BRL 0.0100 0.0288 0.0200 SW8: 130 10 BRL 10 25 10 49 10 BRL 50 BRL 5	SW6010B BRL 0.0050 mg/L BRL 0.0100 mg/L BRL 0.0100 mg/L BRL 0.0200 mg/L SW8270C 130 10 µg/L 25 10 µg/L 49 10 µg/L BRL 5.0 µg/L BRL 5.0	Result Reporting Limit Call Units BatchID	Result Reporting Qual Units BatchID Climit Climit Rector

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 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		sw	8260B	(S	W5030B)		Analyst: HW
2-Butanone	BRL	50	μ	g/L	71407	1	5/30/2006 12:20 AM
2-Hexanone	BRL	10	μ	g/L	71407	1	5/30/2006 12:20 AM
4-Methyl-2-pentanone	12	10	μ	ıg/L	71407	1	5/30/2006 12:20 AM
Acetone	BRL	50	μ	g/L	71407	1	5/30/2006 12:20 AM
Benzene	1800	500	μ	g/L	71407	100	6/2/2006 12:39 PM
Bromodichloromethane	BRL	5.0	μ	ıg/L	71407	1	5/30/2006 12:20 AM
Bromoform	BRL	5.0	μ	g/L	71407	1	5/30/2006 12:20 AM
Bromomethane	BRL	5.0	μ	ıg/L	71407	1	5/30/2006 12:20 AM
Carbon disulfide	BRL	5.0	μ	ıg/L	71407	1	5/30/2006 12:20 AM
Carbon tetrachloride	BRL	5.0	μ	ig/L	71407	1	5/30/2006 12:20 AM
Chlorobenzene	BRL	5.0	μ	ıg/L	71407	1	5/30/2006 12:20 AM
Chloroethane	BRL	10		ıg/L	71407	1	5/30/2006 12:20 AM
Chloroform	BRL	5.0		g/L	71407	1	5/30/2006 12:20 AM
Chloromethane	BRL	10		g/L	71407	1	5/30/2006 12:20 AM
cis-1,2-Dichloroethene	BRL	5.0		g/L	71407	1	5/30/2006 12:20 AM
cis-1,3-Dichloropropene	BRL	5.0		g/L	71407	1	5/30/2006 12:20 AM
Cyclohexane	150	5.0		g/L	71407	1	5/30/2006 12:20 AM
Dibromochloromethane	BRL	5.0		ıg/L	71407	1	5/30/2006 12:20 AM
Dichlorodifluoromethane	BRL	10		ig/L	71407	1	5/30/2006 12:20 AM
Ethylbenzene	710	50		ıg/L	71407	10	6/2/2006 10:59 AM
Freon-113	BRL	10		ıg/L	71407	1	5/30/2006 12:20 AM
Isopropylbenzene	30	5.0		ıg/L	71407	1	5/30/2006 12:20 AM
m,p-Xylene	1500	100		ıg/L	71407	10	6/2/2006 10:59 AM
Methyl acetate	BRL	5.0		ıg/L	71407	1	5/30/2006 12:20 AM
Methyl tert-butyl ether	BRL	5.0		ıg/L	71407	1	5/30/2006 12:20 AM
Methylcyclohexane	79	5.0		ıg/L	71407	1	5/30/2006 12:20 AM
Methylene chloride	BRL	5.0		ıg/L	71407	1	5/30/2006 12:20 AM
o-Xylene	540	50		ıg/L	71407	10	6/2/2006 10:59 AM
Styrene	BRL	5.0		ıg/L	71407	1	5/30/2006 12:20 AM
Tetrachloroethene	BRL	5.0		ıg/L	71407	1	5/30/2006 12:20 AM
Toluene	2400	500		ıg/L	71407	100	6/2/2006 12:39 PM
trans-1,2-Dichloroethene	BRL	5.0		ıg/L	71407	1	5/30/2006 12:20 AM
trans-1,3-Dichloropropene	BRL	5.0		ıg/L	71407	1	5/30/2006 12:20 AM
Trichloroethene	BRL	5.0		ıg/L	71407	1	5/30/2006 12:20 AM
Trichlorofluoromethane	BRL	5.0		ıg/L	71407	1	5/30/2006 12:20 AM
Vinyl chloride	BRL.	2.0		ig/L	71407	1	5/30/2006 12:20 AM
Surr: 4-Bromofluorobenzene	95.6	63.7-115		6REC	71407	10	6/2/2006 10:59 AM
Surr: 4-Bromofluorobenzene	86.0	63.7-115		6REC	71407	100	6/2/2006 12:39 PM
Surr: 4-Bromofluorobenzene	91.8	63.7-115		6REC	71407	1	5/30/2006 12:20 AM
Surr: Dibromofluoromethane	86.1	70.4-123		6REC	71407	10	6/2/2006 10:59 AM
Surr: Dibromofluoromethane	95.0	70.4-123		6REC	71407	100	6/2/2006 12:39 PM

Qualifiers:

Date: 02-Jun-06

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

Date: 02-Jun-06

CLIENT:

Environmental Strategies Corporation

NL Atlanta

Client Sample ID: MW-6

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

Project: Lab ID:

0605G32-010

Matrix: AQUEOUS

Analyses for the second	Result	Reporting Limit	ual Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		SW820	60B (S	W5030B)		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

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

Date: 02-Jun-06

CLIENT:

Environmental Strategies Corporation

Project:

NL Atlanta

Client Sample ID: MW-7D

Collection Date: 5/26/2006 11:42:00 AM

Lab ID:

0605G32-011

Matrix: AQUEOUS

Analyses 💮	Result	Reporting Limit	^g Qual Unit	s BatchID	Dilution Factor	Date Analyzed
METALS, TOTAL		SW	/6010B	(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

BRL Below Reporting Limit

Н Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

Analyte detected in the associated Method Blank

Ė Estimated (Value above quantitation range)

S Surrogate Recovery outside accepted recovery limits

Narr See Case Narrative

NC Not Confirmed

Date: 02-Jun-06

CLIENT:

Lab ID:

Environmental Strategies Corporation

0605G32-012

Client Sample ID: MW-100

Project: NL Atlanta

Collection Date: 5/25/2006 4:00:00 PM

Matrix: AQUEOUS

Dab ID: 0003032-012				Matrix: AC	(UEUUS	
Analýses	Result	Reporting Limit Qua	l Units	BatchID	Dilution Factor	Date Analyzed
METALS, TOTAL		SW6010	3	(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		SW82700		(SW3535)		Analyst: DA
Naphthaiene	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-Methylnaphthaiene	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	μ g/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		1	6/1/2006 1:26 AM
Surr: 4-Terphenyl-d14	90.7	55.9-118	%REC		1	6/1/2006 1:26 AM
TCL VOLATILE ORGANICS		SW82601	3	(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 μg/L	71407	1	5/30/2006 12:45 AM
1,2-Dichloropropane	BRL	5.0	μg/L 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					
1,4-DICHOLODGHEGHG	DKL	5.0	μg/L	71407	1	5/30/2006 12:45 AN

Value exceeds Maximum Contaminant Level

BRL Below Reporting Limit

Η Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

В Analyte detected in the associated Method Blank

E Estimated (Value above quantitation range)

S Surrogate Recovery outside accepted recovery limits

See Case Narrative Narr

NC Not Confirmed

Date: 02-Jun-06

CLIENT:

Environmental Strategies Corporation

NL Atlanta

Client Sample ID: MW-100

Project:

Collection Date: 5/25/2006 4:00:00 PM

Lab ID:

0605G32-012

Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		SW	/8260B (S	W5030B)		Analyst: HW
2-Butanone	BRL	50	μg/L `	71407	1	5/30/2006 12:45 A
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 A
Acetone	BRL	50	μ g/ L	71407	1	5/30/2006 12:45 AM
Benzene	1700	50	µg/∟	71407	10	6/2/2006 11:24 AM
Bromodichloromethane	BRL	5.0	µg/L	71407	1	5/30/2006 12:45 Al
Bromoform	BRL	5.0	µg/L	71407	1	5/30/2006 12:45 Al
Bromomethane	BRL	5.0	µg/L	71407	1	5/30/2006 12:45 Al
Carbon disulfide	BRL	5.0	µg/L	71407	1	5/30/2006 12:45 A
Carbon tetrachloride	BRL	5.0	μg/L	71407	1	5/30/2006 12:45 A
Chlorobenzene	BRL	5.0	μg/L	71407	1	5/30/2006 12:45 A
Chloroethane	BRL	10	μg/L	71407	1	5/30/2006 12:45 A
Chloroform	BRL	5.0	μg/L	71407	1	5/30/2006 12:45 A
Chloromethane	BRL	10	μg/L	71407	1	5/30/2006 12:45 A
cis-1,2-Dichloroethene	BRL	5.0	μg/L	71407	1	5/30/2006 12:45 A
cis-1,3-Dichloropropene	BRL	5.0	μg/L	71407	1	5/30/2006 12:45 A
Cyclohexane	150	5.0	μg/L	71407	1	5/30/2006 12:45 A
Dibromochloromethane	BRL	5.0	μg/L	71407	1	5/30/2006 12:45 A
Dichlorodifluoromethane	BRL	10	μg/L	71407	1	5/30/2006 12:45 A
Ethylbenzene	600	50	μg/L	71407	10	6/2/2006 11:24 AN
Freon-113	BRL	10	μg/L	71407	1	5/30/2006 12:45 A
Isopropylbenzene	32	5.0	μg/L	71407	1	5/30/2006 12:45 A
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 A
Methyl tert-butyl ether	BRL	5.0	μg/L	71407	1	5/30/2006 12:45 A
Methylcyclohexane	77	5.0	μg/L	71407	1	5/30/2006 12:45 A
Methylene chloride	BRL	5.0	μg/L	71407	1	5/30/2006 12:45 A
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 A
Tetrachloroethene	BRL.	5.0	μg/L	71407	1	5/30/2006 12:45 A
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 A
trans-1,3-Dichloropropene	BRL	5.0	µg/L	71407	1	5/30/2006 12:45 A
Trichloroethene	BRL	5.0	µg/L	71407	1	5/30/2006 12:45 A
Trichlorofluoromethane	BRL	5.0	μg/L	71407	1	5/30/2006 12:45 A
Vinyl chloride	BRL	2.0	µg/L	71407	1	5/30/2006 12:45 A
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 A
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 Al
Surr: Dibromofluoromethane	96.3	70.4-123	%REC	71407	100	6/2/2006 1:04 PM

Value exceeds Maximum Contaminant Level

BRL Below Reporting Limit

Н Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

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

Date: 02-Jun-06

CLIENT: Project:

Lab ID:

A 575

Environmental Strategies Corporation

NII A

NL Atlanta

0605G32-012

Collection Page 5/25/2006

Collection Date: 5/25/2006 4:00:00 PM

Matrix: AQUEOUS

Analyses	Result	Reporting 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

CLIENT:

Environmental Strategies Corporation

Project:

NL Atlanta

Lab ID:

0605G32-013

Date: 02-Jun-06

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		sw	8260B (S	W5030B)		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	
Dichlorodifluoromethane	BRL	10		71407	1	5/29/2006 6:05 PM
Ethylbenzene	BRL	5.0	µg/L µg/L	71407	1	5/29/2006 6:05 PM 5/29/2006 6:05 PM
Freon-113	BRL	10	· -	71407 71407	-	
Isopropylbenzene	BRL	5.0	μg/L		1	5/29/2006 6:05 PM
m,p-Xylene	BRL	5.0 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 BRL		µg/L	71407	1	5/29/2006 6:05 PM
Methylcyclohexane		5.0 5.0	μg/L	71407	1	5/29/2006 6:05 PM
Methylene chloride	BRL	5.0 5.0	µg/L	71407	1	5/29/2006 6:05 PM
-	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

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

Date: 02-Jun-06

CLIENT:

Environmental Strategies Corporation

Client Sample ID: TRIP BLANK

Project:

NL Atlanta

Collection Date: 5/25/2006

Lab ID:

0605G32-013

Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		SW8	3260B	(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

Value exceeds Maximum Contaminant Level

BRL Below Reporting Limit

Holding times for preparation or analysis exceeded Н

N Analyte not NELAC certified

Analyte detected in the associated Method Blank

Е Estimated (Value above quantitation range)

S Surrogate Recovery outside accepted recovery limits

Narr See Case Narrative

Not Confirmed NC

Environmental Strategies Corporation 0605G32 CLIENT:

Work Order:

NL Atlanta Project:

TestCode: 6010B_W_T

ANALYTICAL QC SUMMARY REPORT

Date: 05-Jun-06

Sample ID: MB-71418	SampType: MBLK	TestCo	TestCode: 6010B_W_T	T Units: mg/L		Prep Date:	5/31/2006	90	RunNo: 84772		
Client ID:	Batch ID: 71418	Test	TestNo: SW6010B			Analysis Date:	5/31/2006	90	SeqNo: 1681763	63	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD R	RPDLimit	Qual
Cadmium	BRL	0.00500									
Copper	BRL	0.0100									
Lead	BRL	0.0100									
Zinc	BRL	0.0200									
Sample ID: LCS-71418	SampType: LCS	TestCox	TestCode: 6010B_W_T	T Units: mg/L		Prep Date:	: 5/31/2006	90	RunNo: 84772		
Client ID:	Batch ID: 71418	Test	TestNo: SW6010B		-	Analysis Date:	5/31/2006	90	SeqNo: 1681761	61	
Analyte	Result	Pal	SPK value	SPK Ref Vai	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD R	RPDLimit G	Qual
Cadmium	1.014	0.00500	1	0	101	85	115	0	0		
Copper	1.008	0.0100	-	0	101	85	115	0	0		
Lead	1.006	0.0100	-	0	5	85	115	0	0		
Zinc	1.005	0.0200	-	0.004139	100	85	115	0	0		
Sample ID: 0605G14-002BMS	SampType: MS	TestCox	TestCode: 6010B_W_T	T Units: mg/L		Prep Date:	: 5/31/2006	90	RunNo: 84772		
Client ID:	Batch ID: 71418	Testh	TestNo: SW6010B		-	Analysis Date:	: 5/31/2006	90	SeqNo: 1681766	99	-
Analyte	Result	Pol	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD R	RPDLimit	Qual
Cadmium	1.017	0.00500	_	o	102	75	125	0	0	:	
Copper	1.01	0.0100	~	0.00277	101	75	125	0	0		
Lead	0.9995	0.0100	~	0.003794	9.66	75	125	0	0		
Zinc	1.022	0.0200	-	0.01974	100	75	125	0	0		
Sample ID: 0605G14-002BMSD	SampType: MSD	TestCoc	TestCode: 6010B_W_T	T Units: mg/L		Prep Date:	5/31/2006	90	RunNo: 84772		
Client ID:	Batch ID: 71418	Testh	TestNo: SW6010B		•	Analysis Date:	5/31/2006	96	SeqNo: 1681768	89	•
Analyte	Result	Pal	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RI	RPDLimit Q	Qual
Cadmium	1.014	0.00500	-	0	101	75	125	1.017	0.313	20	
	Analyte detected in the associated Method Blank	d Blank	BRL Below R	Below Reporting Limit				Value above quantitation range	itation range		
H Holding times R RPD outside a	Holding times for preparation or analysis exceeded RPD outside accepted recovery limits	pepeaxe	J Analyte S Spike R	Analyte detected below quantitation limits Spike Recovery outside accepted recovery limits	titation limi sted recover	its y limits	∢ z	Analyte not NELAC certified	C certified	Pag	Page 1 of 0
											,

Page 1 of 9

Value above quantitation range Analyte not NELAC certified

шZ

Environmental Strategies Corporation CLIENT:

0605G32 Work Order:

NL Atlanta Project:

ANALYTICAL QC SUMMARY REPORT TestCode: 6010B_W_T

Sample ID: 0605G14-002BMSD SampType: MSD Client ID: Batch ID: 71418	SampType: MSD Batch ID: 71418	TestCoc TestN	TestCode: 6010B_W_T TestNo: SW6010B	_T Units: mg/L		Prep Date: 5/31/2006 Analysis Date: 5/31/2006	Prep Date: 5/31/2006	90	RunNo: 84772 SeqNo: 1681768	72	
Analyte	Result	Pol	SPK value	SPK value SPK Ref Val	%REC	LowLimit	HighLimit	%REC LowLimit HighLimit RPD Ref Val	%RPD	%RPD RPDLimit Qual	Qual
Copper	1.009	0.0100	-	0.00277	101	75	125	1.01	0.0763	8	
Lead	0.9989	0.0100	-	0.003794	99.5	75	125	0.9995	0.0564	20	
Zinc	1.024	0.0200	-	0.01974	5	75	125	1.022	0.227	20	

В	Analyte detected in the associated Method Blank	BRL	BRL Below Reporting Limit
H	Holding times for preparation or analysis exceeded	-	J Analyte detected below q
~	R RPD outside accepted recovery limits	S	Spike Recovery outside a

Qualifiers:

RPD outside accepted recovery limits

Spike Recovery outside accepted recovery limits J Analyte detected below quantitation limits
S Spike Recovery outside account

Environmental Strategies Corporation CLIENT:

0605G32 NL Atlanta Work Order:

Project:

ANALYTICAL QC SUMMARY REPORT TestCode: 8260_TCL4.2_W

	i i i i i i i i i i i i i i i i i i i	1	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	esterioris	9000	D. 1840.	
Sample IO: MB-7140/	Sampi ype: MDLA	estcode.	lesicode: 6260_1CL4.2 Units: pg/L		5005	CALINO. 04000	
Client ID:	Batch ID: 71407	TestNo:	TestNo: SW8260B	Analysis Date: 5/29/2006	2006	SeqNo: 1679908	
Analyte	Result	Pal	SPK value SPK Ref Val	%REC LowLimit HighLimit	it 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	2.0					
1,1-Dichloroethane	BRL	2.0					
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	20					
2-Hexanone	BRL	9					
4-Methyl-2-pentanone	BRL	10					
Acetone	BRL	20					
Benzene	BRL	5.0					
Bromodichloromethane	BRL	5.0					
Bromoform	BRL	2.0					
Bromomethane	BRL	5.0					
Carbon disulfide	BRL	5.0					
Carbon tetrachloride	BRL	5.0					
Chlorobenzene	BRL	5.0					
Chloroethane	BRL	9					
Chloroform	BRL	5.0					
Chloromethane	BRL	9					
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 det	Analyte detected in the associated Method Blank		BRL Below Reporting Limit	H	Value above quantitation range	tation range	
H Holding tin	Holding times for preparation or analysis exceeded	eded	J Analyte detected below quantitation limits	ntitation limits N	Analyte not NELAC certified	Coertified	
R RPD outsid	RPD outside accepted recovery limits		S Spike Recovery outside accepted recovery limits	epted recovery limits			07-6
	•						rage 5 of 9

CLIENT: Environmental Strategies Corporation

Work Order: 0605G32

Project: NL Atlanta

TestCode: 8260_TCL4.2_W

Sample ID: MB-71407	SampType: MBLK	TestCoc	TestCode: 8260_TCL4.2 Units: µg/L	Units: µg/L		Prep Date	Prep Date: 5/29/2006	9	RunNo: 84680	8	
Client ID:	Batch ID: 71407	Testh	TestNo: SW8260B		-	Analysis Date: 5/29/2006	5/29/200	•	SeqNo: 1679908	8066	
Analyte	Result	Pal	SPK value SF	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val	-lighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	BRL	5			u.						
Ethylbenzene	BRL	5.0									
Freon-113	BRL	5									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	6									
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	2.0									
trans-1,2-Dichloroethene	BRL	2.0									
trans-1,3-Dichloropropene	BRL	2.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	39.09	0	20	0	78.2	63.7	115	0	0		
Surr: Dibromofluoromethane	47.02	0	20	0	2	70.4	123	0	0		
Surr: Toluene-d8	42.7	0	20	0	85.4	73.4	115	0	0		
Sample ID: LCS-71407	SampType: LCS	TestCod	TestCode: 8260_TCL4.2 Units: µg/L	Units: µg/L		Prep Date:	5/29/2006		RunNo: 84680	08	
Client ID:	Batch ID: 71407	TestN	TestNo: SW8260B	•	*	Analysis Date:	5/29/2006	16	SeaNo: 1679909	6066	

Client ID:		Batch ID: 71407	71407	TestN	TestNo: SW8260B	?		Analysis Date: 5/29/2006	le: 5/29/2(90	SedNo: 1679909	9909	
Analyte			Result	g	SPK value	PQL SPK value SPK Ref Val	%REC	LowLimit	HighLimit	%REC LowLimit HighLimit RPD Ref Val	%RPD	%RPD RPDLimit Qual	Quai
1,1-Dichloroethene	hene		57.71	5.0	20	0	115	65.4	159	0	0	:	
Benzene			49.55	5.0	S	0	99.1	77.4	127	0	0		
Chlorobenzene	₩.		50.96	5.0	20	0	102	79.9	124	0	0		
Toluene			50.2	5.0	20	0	100	79.6	127	0	0		
Qualifiers:	B /	B Analyte detected in the associated Method Blank	ated Method Blan	k	BRL Below	BRL Below Reporting Limit			Э	E Value above quantitation range	itation range	-	
	Н	Holding times for preparation or analysis exceed	or analysis excee	ded	J Analy	Analyte detected below quantitation limits	untitation lim	its	z	Analyte not NELAC certified	C certified		
	~	RPD outside accepted recovery limits	y limits		S Spike	Spike Recovery outside accepted recovery limits	epted recove	ry limits				Pa	Page 4

Page 5 of 9

Environmental Strategies Corporation CLIENT:

0605G32 Work Order: NL Atlanta Project:

TestCode: 8260_TCL4.2_W

Sample ID: LCS-71407	SampType: LCS	TestCod	e: 8260_TCL	TestCode: 8260_TCL4.2 Units: µg/L		Prep Date:	5/29/2006	90	RunNo: 84680	980	
Client ID:	Batch ID: 71407	TestN	TestNo: SW8260B			Analysis Date:	5/29/2006	90	SeqNo: 1679909	60667	
Analyte	Result	Pol	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPOLimit	Qual
Trichloroethene	52.76	5.0	જ	0	106	73.2	2	0	0		
Surr: 4-Bromofluorobenzene	38.34	0	20	0	7.97	63.7	115	0	0		
Surr: Dibromofluoromethane	43.06	0	20	0	86.1	70.4	123	0	0		
Surr: Toluene-d8	42.1	0	20	0	84.2	73.4	115	0	0		
Sample ID: 0605F65-003AMS	SampType: MS	TestCode	TestCode: 8260_TCL4.2	1.2 Units: µg/L	: :	Prep Date:	5/29/2006	90	RunNo: 84680	980	
Client ID:	Batch ID: 71407	TestN	TestNo: SW8260B			Analysis Date:	5/29/2006	90	SeqNo: 1679911	79911	
Analyte	Result	PaL	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		
Benzene	49.81	5.0	20	0	9.66	72.6	130	0	0		
Chlorobenzene	51.72	5.0	20	0	103	75.8	126	0	0		
Toluene	50.42	5.0	20	0	5	7.4.7	129	0	0		
Trichloroethene	52.81	5.0	8	1.19	103	02	134	0	0		
Surr: 4-Bromofluorobenzene	39.39	0	20	0	78.8	63.7	115	0	0		
Surr: Dibromofluoromethane	44.95	0	20	0	89.9	70.4	123	0	0		
Surr: Toluene-d8	42.29	0	20	0	84.6	73.4	115	0	0		
Sample ID: 0605F65-003AMSD	SampType: MSD	TestCode	TestCode: 8260_TCL4.2	1.2 Units: µg/L		Prep Date:	5/29/2006	90	RunNo: 84680	380	
Client ID:	Batch ID: 71407	TestN	TestNo: SW8260B			Analysis Date:	5/29/2006	90	SeqNo: 1679920	79920	·
Analyte	Result	Pol	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	54.7	5.0	20	0	109	58.9	163	58.71	7.07	15.8	
Benzene	47.83	9.0	,2 2	0	95.7	72.6	130	49.81	4.06	10	
Chlorobenzene	49.81	5.0	20	0	9.66	75.8	126	51.72	3.76	6	
Toluene	49.17	5.0	20	0	98.3	7.4.7	129	50.42	2.51	9	
Trichloroethene	50.24	5.0	20	1.19	98.1	02	<u>\$</u>	52.81	4.99	7	
Surr: 4-Bromofluorobenzene	37.9	0	20	0	75.8	63.7	115	39.39	0	0	
Surr: Dibromofluoromethane	43.46	0	20	0	86.9	70.4	123	44.95	0	0	
Surr: Toluene-d8	42.07	0	20	0	%	73.4	115	42.29	0	0	
Qualifiers: B Analyte detect	Analyte detected in the associated Method Blank	<u>×</u>	BRL Below F	Below Reporting Limit				Value above quantitation range	titation range		
H Holding times	Holding times for preparation or analysis exceeded	ded	J Analyte	Analyte detected below quantitation limits	titation limi	ts	Z	Analyte not NELAC certified	AC certified		
R RPD outside a	RPD outside accepted recovery limits		S Spike R	Spike Recovery outside accepted recovery limits	pted recove	ry limits				Po	Page 5 of 0

Environmental Strategies Corporation 0605G32

NL Atlanta CLIENT:

Work Order:

Project:

TestCode: 8270_PAH_W

Sample ID: MB-71369	SampType: MBLK	TestCoc	le: 8270_PAF	TestCode: 8270_PAH_W Units: µg/L		Prep Date:	s: 5/30/2006	900	RunNo: 84778	778	
Client ID:	Batch ID: 71369	Testh	TestNo: SW8270C			Analysis Date:	9: 5/31/2006	90	SeqNo: 1681915	81915	
Analyte	Result	Pol	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	BRL	5	i :								
2-Methylnaphthalene	BRL	9									
Acenaphthene	BRL	9									
Acenaphthylene	BRL	9									
Anthracene	BRL	9									
Benz(a)anthracene	BRL	9									
Benzo(a)pyrene	BRL	5									
Benzo(b)fluoranthene	BRL	5									
Benzo(g,h,i)perylene	BRL	5									
Benzo(k)fluoranthene	BRL	9									
Chrysene	BRL	10									
Dibenz(a,h)anthracene	BRL	9									
Finoranthene	BRL	5									
Fluorene	BRL	5									
Indeno(1,2,3-cd)pyrene	BRL	9									
Naphthalene	BRL	9									
Phenanthrene	BRL	9									
Pyrene	BRL	5									
Surr: 2-Fluorobiphenyl	38.14	0	20	0	76.3	46.6	115	0	0		
Surr: 4-Terphenyl-d14	46.55	0	22	0	93.1	55.9	118	0	0		
Surr: Nitrobenzene-d5	33.82	0	20	0	67.6	29.9	115	0	0		
Sample ID: LCS-71369	SampType: LCS	TestCod	e: 8270_PAH	TestCode: 8270_PAH_W Units: µg/L		Prep Date:	5/30/2006	90	RunNo: 84778	7.8	
Client ID:	Batch ID: 71369	TestN	TestNo: SW8270C			Analysis Date:	5/31/2006	90	SeqNo: 1681916	1916	
Analyte	Result	Po	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	37.82	9	20	0	75.6	63.6	120	0	0		
Acenaphthylene	37.1	10	S	0	74.2	61.3	118	0	0		
Anthracene	43.02	10	20	0	98	69	120	0	0		
Benz(a)anthracene	41.46	10	20	0	82.9	65.7	120	0	0		
Qualifiers: B Analyte	Analyte detected in the associated Method Blank	lank	BRL Below	Below Reporting Limit			H	Value above quantitation range	titation range	:	
H Holding	Holding times for preparation or analysis exceeded	eeded	J Analyte	Analyte detected below quantitation limits	titation limi	<u>s</u>		Analyte not NELAC certified	C certified		
R RPD out	RPD outside accepted recovery limits		S Spike I	Spike Recovery outside accepted recovery limits	pted recover	y limits		•		ď	Duag K of 0

Environmental Strategies Corporation CLIENT:

0605G32 Work Order:

NL Atlanta **Project:**

TestCode: 8270_PAH_W

Sample ID: LCS-71369	-71369	SampType: LCS	TestCode	%: 8270_PAI	TestCode: 8270_PAH_W Units: µg/L		Prep Date:	5/30/2006	92	RunNo: 84778	78	
Client ID:		Batch ID: 71369	TestNo	TestNo: SW8270C			Analysis Date:	5/31/2006	92	SeqNo: 1681916	31916	
Analyte	i	Result	Pa	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(a)pyrene		40.03	5	50	0	80.1	67.4	120	0	0		
Benzo(b)fluoranthene	hene	40.34	0	50	0	80.7	57.4	120	0	0		
Benzo(g,h,i)perylene	ene	41.35	5	50	0	82.7	57.7	120	0	0		
Benzo(k)fluoranthene	hene	38.43	5	20	0	76.9	71.1	120	0	0		
Chrysene		44.35	9	20	0	88.7	70.6	120	0	0		
Dibenz(a,h)anthracene	acene	40.14	5	20	0	80.3	29	120	0	0		
Fluoranthene		44.01	10	20	0	88	64.3	120	0	0		
Fluorene		40.91	9	20	0	81.8	65.6	120	0	0		
Indeno(1,2,3-cd)pyrene	yrene	40.57	9	22	0	81.1	52.2	120	0	0		
Naphthalene		34.95	5	20	0	66.69	57.9	120	0	0		
Phenanthrene		41.05	1	20	0	82.1	68.8	120	0	0		
Pyrene		43.83	5	20	0	87.7	9.79	120	0	0		
Surr: 2-Fluorobiphenyl	iphenyl	39.71	0	20	0	79.4	46.6	115	0	0		
Surr: 4-Terphenyl-d14	nyl-d14	44.22	0	20	0	88.4	55.9	118	0	0		
Surr: Nitrobenzene-d5	ene-d5	24.79	0	20	0	49.6	29.9	115	0	0		
Sample ID: 0605G32-003CMS	G32-003CMS	SampType: MS	TestCode	TestCode: 8270_PAH_W	W Units: µg/L		Prep Date:	5/30/2006		RunNo: 84778	78	
Client ID: MW-5	ıo.	Batch ID: 71369	TestNo	No: SW8270C		-	Analysis Date:	5/31/2006	ڥ	SeqNo: 1682184	2184	
Analyte		Result	PQ	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene		35.95	5	20	0	71.9	36.2	109	0	0		
Acenaphthylene		34.22	5	20	0	68.4	30.5	133	0	0		
Anthracene		39.27	9	20	0	78.5	54.2	110	0	0		
Benz(a)anthracene	9	40.06	9	20	0	80.1	56.3	110	0	0		
Benzo(a)pyrene		38.85	10	20	0	7.77	44.8	122	0	0		
Benzo(b)fluoranthene	ene	38.18	9	20	0	76.4	45.4	112	0	0		
Benzo(g,h,i)perylene	ane	40.26	9	20	0	80.5	88	124	0	0		
Benzo(k)fluoranthene	ene	37.83	9	20	0	7.5.7	55.7	121	0	0		
Chrysene		42.13	6	20	0	84.3	61	114	0	0		
Dibenz(a,h)anthracene	cene	38.85	9	20	0	7.77	47.6	113	0	0		
Qualifiers: B		Analyte detected in the associated Method Blank		BRL Below	Below Reporting Limit			E Va	Value above quantitation range	titation range		
H		Holding times for preparation or analysis exceeded	eded		Analyte detected below quantitation limits	titation limi	হ	Z	Analyte not NELAC certified	VC certified		
~		RPD outside accepted recovery limits		S Spike	Spike Recovery outside accepted recovery limits	pted recover	y limits				Pe	Page 7 of 9

Environmental Strategies Corporation CLIENT:

0605G32 NL Atlanta Work Order:

Project:

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_PAH_W

Sample ID: 0605G32-003CMS SampType: MS	SampType: MS	TestCode: 8270_P	8270_PAH	TestCode: 8270_PAH_W Units: µg/L		Prep Date:	5/30/2006	96	RunNo: 84778	78	
Client ID: MW-5	Batch ID: 71369	TestNo:	TestNo: SW8270C			Analysis Date:	5/31/2006	9	SeqNo: 1682184	12184	
Analyte	Result	Pal	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoranthene	40.77	5	20	0	81.5	57.4	\$	0	0		
Fluorene	38.17	9	20	0	76.3	42.9	114	0	0		
Indeno(1,2,3-cd)pyrene	39.03	9	20	0	78.1	4	118	0	0		
Naphthalene	30.82	5	20	0	61.6	13.5	127	0	0		
Phenanthrene	39.18	5	20	0	78.4	53.5	11	0	0		
Pyrene	42.53	5	20	0	85.1	22	118	0	0		
Surr: 2-Fluorobiphenyl	36.77	0	20	0	73.5	46.6	115	0	0		
Surr: 4-Terphenyl-d14	41.93	0	20	0	83.9	55.9	118	0	0		
Surr: Nitrobenzene-d5	30.63	0	20	0	61.3	29.9	115	0	0		
Sample ID: 0605G32-003CMSD	SampType: MSD	TestCode:	TestCode: 8270_PAH_W	W Units: µg/L		Prep Date:	5/30/2006	90	RunNo: 84778	78	
Client ID: MW-5	Batch ID: 71369	TestNo:	lo: SW8270C			Analysis Date:	5/31/2006	9	SeqNo: 1682191	12191	
Analyte	Result	PQL S	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	33.5	5	2 6	0	29	36.2	109	35.95	2.06	31.9	
Acenaphthylene	31.73	9	20	0	63.5	30.5	133	34.22	7.55	32	
Anthracene	37.61	9	20	0	75.2	54.2	110	39.27	4.32	24	
Benz(a)anthracene	40.57	9	20	0	81.1	56.3	110	40.06	1.27	25.6	
Benzo(a)pyrene	37.9	9	20	0	75.8	44.8	122	38.85	2.48	28.9	
Benzo(b)fluoranthene	38.17	9	20	0	76.3	45.4	112	38.18	0.0262	27.3	
Benzo(g,h,i)perylene	38.67	9	20	0	77.3	38	124	40.26	4.03	31.1	
Benzo(k)fluoranthene	38.34	5	20	0	7.97	55.7	121	37.83	1.3 24:	29.6	
Chrysene	42.6	9	S	0	85.2	61	114	42.13	1.11	27.1	
Dibenz(a,h)anthracene	38.02	9	20	0	9/	47.6	113	38.85	2.16	33.6	
Fluoranthene	40.31	9	20	0	90.6	57.4	<u>\$</u>	40.77	1.13	21.2	
Fluorene	36.07	9	20	0	72.1	42.9	114	38.17	5.66	31.2	
Indeno(1,2,3-cd)pyrene	38.95	5	22	0	6.77	4	118	39.03	0.205	30.7	
Naphthalene	29.64	5	20	0	59.3	13.5	127	30.82	3.90	33.6	
Phenanthrene	37.77	9	20	0	75.5	53.5	111	39.18	3.66	24	
Pyrene	42.83	6	20	0	85.7	55	118	42.53	0.703	21.5	
Qualifiers: B Analyte detect	Analyte detected in the associated Method Blank		BRL Below R	Below Reporting Limit			E	Value above quantitation range	litation range		
H Holding times	Holding times for preparation or analysis exceeded		-	Analyte detected below quantitation limits	titation limi	ts	z	Analyte not NELAC certified	C certified		
R RPD outside a	RPD outside accepted recovery limits	U 2	S Spike Re	Spike Recovery outside accepted recovery limits	oted recover	y limits				P.	Page 8 of 9

Environmental Strategies Corporation CLIENT:

0605G32 Work Order:

NL Atlanta Project:

TestCode: 8270_PAH_W

Sample ID: 0605G32-003CMSD SampType: MSD	SampType: MSD	TestCod	le: 8270_PAh	TestCode: 8270_PAH_W Units: µg/L		Prep Da	Prep Date: 5/30/2006	900	RunNo: 84778	778	
Client ID: MW-5	Batch ID: 71369	TestN	TestNo: SW8270C			Analysis Date: 5/31/2006	te: 5/31/2(900	SeqNo: 1682191	82191	
Analyte	Result	PQL	SPK value	SPK value SPK Ref Val	%REC	LowLimit	HighLimit	%REC LowLimit HighLimit RPD Ref Vai	%RPD	%RPD RPDLimit	Qual
Surr: 2-Fluorobiphenyl	32.09	0	20	0	64.2	46.6	115	36.77	0	0	
Surr: 4-Terphenyl-d14	41.23	0	20	0	82.5	55.9	118	41.93	0	0	
Surr: Nitrobenzene-d5	21	0	20	0	42	29.9	115	30.63	0	0	

BRL Below Reporting Limit	
¥	
od Blan	
th	
Ž	
1 the associated Method Blank	
cted ir	
e dete	
Į,	
Ani	
•	
B	
Qualifiers:	

H Holding times for preparation or analysis exceeded R RPD outside accepted recovery limits

RPD outside accepted recovery limits

J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

Value above quantitation range Analyte not NELAC certified



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

Dear GiGi Beaulieu:

Order No.: 0606E02

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 _____ total pages (including cover letter).

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

Sincerely,

James Forrest

Project Manager

0606602

Page / of +

No.038420 ENVIRONMENTAL STRATEGIES CONSULTING LLC Samples chilled on ☐ Minneapolis Office: 123 North 3rd St, #706, Minneapolis, MN 55401 Tel: (612) 343-0510, Fax: (612) 343-0506 A QUANTA TECHNICAL SERVICES COMPANY Remarks Denver Office: 4600 South Ulster, # 930, Denver, CO 80237 Tel: (303) 850-9200, Fax: (303) 850-9214 Requested Analyses Laboratory Location:

A + I an t a

Custody Seal Numbers: Method of Shipment: Calmino Codenius Laboratory Name: K X X Q X R X Pittsburgh Office: 300 Corporate Center Dr, # 200, Moon Twp, PA 15108 Tel: (412) 604-1040, Fax: (412) 604-1055 30-529 . 2:01 PM Matrix ¥ 6/23/06 12:35 Ag 13:00 Ag A = Air; Bu = Bulk; OW = Oily Waste; 12/06 17:45 | 00:01 | 70/80/9 ☐ Reston Office: 11911 Freedom Dr, # 900, Reston, VA 20190 Aq = Water W = Wipe Bi = Biota; Time Matrices: 0 = Other S = Soil; Received by (Signature): Received by (Signature) 6/23/06 Tracking Number: Tel: (703) 709-6500, Fax: (703) 709-8505 A A 127562/04 | NL (Atlanta, GA Time Date | Time Project Number: |Site and Location: Date Giselle Beaulien Beaulen Turn-Around Time: Standard MW-7D inguished by (Signature): Relinquished by (Signature): Sampler's Signature(s): Sample Identification: MW - 17 DK-MU MW - 11 Sampler's Name(s):

Sample/Cooler Receipt Checklist

Client Env Strategis		Work Orde	r Number <u>0606 802</u>
Checklist completed by Man Cabhan (as Signature Date	-27-6		
Carrier name: FedEx UPS Courier Client _ US	S Mail Othe	r	_
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 3. Cooler #2 Cooler #3	_ Cooler #4 _	Cod	oler#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 <u></u>	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 su	abmitted/	Yes	No
Water - pH acceptable upon receipt?	Yes _	No _	Not Applicable
Adjusted?			Μ
Sample Condition: Good Other(Explain)			
(For diffusive samples or AIHA lead) Is a known blank include	led? Yes	1	√o <u>√</u>

See Case Narrative for resolution of the Non-Conformance.

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

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

CLIENT: Environmental Strategies Corporation

NL/Atlanta, GA

Lab ID: 0606E02-001

Project:

Date: 29-Jun-06

Client Sample ID: MW-7D

Collection Date: 6/22/2006 5:45:00 PM

Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual Units	BatchID	Dilution Factor	Date Analyzed
METALS, TOTAL		sw	6010B	(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

Date: 29-Jun-06

CLIENT:

Environmental Strategies Corporation

Project:

NL/Atlanta, GA

Client Sample ID: MW-11

Collection Date: 6/23/2006 10:20:00 AM

Lab ID:

Analyses

0606E02-002

Matrix: AQUEOUS

Result

Reporting Qual Units Limit

(SW3010A)

Dilution Factor **Date Analyzed**

METALS, TOTAL Zinc

BRL

SW6010B 0.0200

mg/L

72363

BatchID

Analyst: AO 6/27/2006 4:52 PM

Qualifiers:

Value exceeds Maximum Contaminant Level

BRL Below Reporting Limit

Н Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

В Analyte detected in the associated Method Blank E Estimated (Value above quantitation range)

S Surrogate Recovery outside accepted recovery limits

Narr See Case Narrative

Not Confirmed

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		SW60	010B	(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

- 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

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		sw	6010B	(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

Environmental Strategies Corporation CLIENT:

Work Order:

0606E02 NL/Atlanta, GA **Project:**

ANALYTICAL QC SUMMARY REPORT

Date: 29-Jun-06

TestCode: 6010B_W_T

Sample ID: MB-72363	SampType: MBLK	TestCo	TestCode: 6010B_W_T	T Units: mg/L		Prep Date:	9: 6/26/2006	90	RunNo: 86232	32	
Client ID:	Batch ID: 72363	Test	TestNo: SW6010B		•	Analysis Date:	9: 6/27/2006	90	SeqNo: 1711224	1224	
Analyte	Result	POL	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	TestCo	TestCode: 6010B_W_T	T Units: mg/L		Prep Date:	s: 6/26/2006	90	RunNo: 86232	32	
Client ID:	Batch ID: 72363	Test	TestNo: SW6010B			Analysis Date:	s: 6/27/2006	90	SeqNo: 1711223	1223	
Analyte	Result	Pal	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	1.062	0.00500	-	0	106	85	115	0	0		
Copper	1.052	0.0100	~	0	105	82	115	0	0		
Lead	1.052	0.0100	-	0	105	82	115	0	0		
Zinc	1.062	0.0200	-	0	106	82	115	0	0		
Sample ID: 0606C40-001AMS	SampType: MS	TestCo	TestCode: 6010B_W_T	T Units: mg/L		Prep Date:	6/26/2006	90	RunNo: 86232	12	
Client ID:	Batch ID: 72363	Test	TestNo: SW6010B		•	Analysis Date:	6/27/2006	90	SeqNo: 1711227	1227	
Analyte	Result	PaL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	1.069	0.00500	-	o	107	75	125	0	0	ı	
Copper	1.051	0.0100	-	0	105	75	125	0	0		
Lead	1.052	0.0100	-	0	105	75	125	0	0		
Zinc	1.08	0.0200	1	0.007813	107	75	125	0	0		
Sample ID: 0606C40-001AMSD	SampType: MSD	TestCo	TestCode: 6010B_W_T	T Units: mg/L		Prep Date:	6/26/2006	96	RunNo: 86232	21	
Client ID:	Batch ID: 72363	Test	TestNo: SW6010B			Analysis Date:	i: 6/27/2006	96	SeqNo: 1711229	229	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	1.051	0.00500	-	0	105	75	125	1.069	1.70	20	
Qualifiers: B Analyte detect	Analyte detected in the associated Method Blank Holding times for menaration or analysis exceeded	d Blank	BRL Below R	Below Reporting Limit	itation limit	<u> </u>	ш 2	Value above quantitation range	titation range		
	RPD outside accepted recovery limits			Spike Recovery outside accepted recovery limits	ted recover	y limits	,			Pa	Page 1 of 2

Environmental Strategies Corporation CLIENT:

Work Order:

0606E02 NL/Atlanta, GA Project:

ANALYTICAL QC SUMMARY REPORT TestCode: 6010B_W_T

Sample ID: 0606C40-001AMSD Client ID:	SampType: MSD Batch ID: 72363	TestCoc Testh	TestCode: 6010B_W_T TestNo: SW6010B	T Units: mg/L	,	Prep Date: 6/26/2006 Analysis Date: 6/27/2006	Prep Date: 6/26/2006 alysis Date: 6/27/2006	90	RunNo: 86232 SeqNo: 1711229	232 11229	
Analyte	Result	PaL	SPK value	SPK value SPK Ref Val	%REC	LowLimit	HighLimit	%REC LowLimit HighLimit RPD Ref Val	%RPD	%RPD RPDLimit Qual	Qual
Copper	1.035	0.0100	-	0	5	75	125	1:051	1.50	20	
Lead	1.037	0.0100	-	0	<u>\$</u>	75	125	1.052	1.45	20	
Zinc	1.061	0.0200	-	0.007813	105	75	125	1.08	1.86	20	

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



July 27, 2006

GiGi Beaulieu Environmental Strategies Corporation 1740 Massachusettes Avenue Boxborough, MA 07179

TEL: (978) 808-4612 FAX: (978) 264-0537

RE: NL

Dear GiGi Beaulieu:

Order No.: 0607A49

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 ______ 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

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

Work Order: 0607449 Date: 7-34-06

₹

Page

No # of Containers ≥ to check on the status of your results, place bottle Same Day Rush (auth req.) www.aesatlanta.com Ħ Tumaround Time Request Standard 5 Business Days Fax? Y/N Next Business Day Rush Visit our website 11 1 2 Business Day Rush Total # of Containers orders, etc. RECEIPT REMARKS STATE PROGRAM (if any): DATA PACKAGE: E-mail? Y/N; 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. ANALYSIS REQUESTED PRESERVATION (See codes) PROJECT INFORMATION STTE ADDRESS: PARA 90 INVOICE TO: (IF DIFFERENT FROM ABOVE) SEND REPORT TO: ROJECT NAME ROJECT #: QUOTE #: DATE/TIME Matrix (See codes) \mathcal{S} COURTER Composite SHIPMENT METHOD CLIENT FedEx UPS MAIL ΛIA VIA: Grab GREYHOUND OTHER 12.30 TIME SAMPLED Mass RECEIVED BY 17.C DATE OUT Z Stratigies Consulting SAMPLE ID HOW 18-5-71 CO SPECIAL INSTRUCTIONS/COMMENTS En Viron mental MW-78 **ELINOUISHED BY** 10

MATRIX CODES: A = Air GW = Groundwater | Discountine and | Groundwater | Discountine | W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) GW = Groundwater SE = Sediment SO = Soil SW = Surface Water MATRIX CODES: A = Air

Sample/Cooler Receipt Checklist

Client Env Strategies			umber	0607A49
Checklist completed by Harun Frden Signature Date	7/21/06			
Carrier name: FedEx UPS Courier ✓ Client US	S Mail Other	r		
Shipping container/cooler in good condition?	Yes _	No No	ot Present _	_
Custody seals intact on shipping container/cooler?	Yes	No No	ot Present	_
Custody seals intact on sample bottles?	Yes	No _ No	ot 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 <u>~</u>	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 N	Not Applicat	ole <u>~</u>
Water - VOA vials have zero headspace? No VOA vials su	ibmitted _	Yes	No	
Water - pH acceptable upon receipt?	Yes	No / N	Not Applicat	le
Adjusted?			HF	_
Sample Condition: Good Other(Explain)				_
(For diffusive samples or AIHA lead) Is a known blank included	lad? Vac	No	V	

See Case Narrative for resolution of the Non-Conformance.

\\Aes_server\I\\Sample Receipt\Documents on C\my documents\IMPORTANT DOCUMENTS - EROL\Checklist.rtf

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

Date: 27-Jul-06

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.

CLIENT:

Environmental Strategies Corporation

Client Sample ID: MW-7E

Lab Order:

0607A49

Tag Number:

Project: Lab ID: NL

Collection Date: 7/21/2006 12:30:00 PM

0607A49-001A

Matrix: GROUNDWATER

Date: 27-Jul-06

Analyses	Result	Limit Q	ual Unit	s BatchID	DF	Date Analyzed
METALS, TOTAL		SW601	10B	(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

Qua	lifiers:
-----	----------

- 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

Environmental Strategies Corporation CLIENT:

0607A49 Work Order:

Project:

ANALYTICAL QC SUMMARY REPORT

Date: 27-Jul-06

TestCode: 6010B_W_T

Sample ID: MB-73426	426	SampType: MBLK	TestCo	TestCode: 6010B_W_T	T Units: mg/L		Prep Date:	te: 7/24/2006	90	RunNo: 87814	314	
Client ID:		Batch ID: 73426	Test	TestNo: SW6010B			Analysis Date:	te: 7/25/2006	90	SeqNo: 1745194	15194	
Analyte	:	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium Copper Lead Zinc		BRL BRL BRL BRL	0.00500 0.0100 0.0100 0.0200									
Sample ID: LCS-73426 Client ID:	3426	SampType: LCS Batch ID: 73426	TestCo	TestCode: 6010B_W_T TestNo: \$W6010B	T Units: mg/L		Prep Date: Analysis Date:	te: 7/24/2006 te: 7/25/2006	90	RunNo: 87814 SeqNo: 1745193	314	
Analyte		Result	Pal	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium		1.03	0.00500		0 0	103	85.	115	0 0	0 0		
Copper Lead Zinc		1.025	0.0100			<u> </u>	8 8 8	115	000	000		
Sample ID: 0607A58-006BMS Client ID:	58-006BMS	SampType: MS Batch ID: 73426	TestCod	TestCode: 6010B_W_T	T Units: mg/L		Prep Date:	e: 7/24/2006	90	RunNo: 87814	114	
Analyte		Result	Pal	SPK value	SPK Ref Val	" "REC	LowLimit	ghLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium Copper Lead Zinc		1.011 1.004 0.9682 1.018	0.00500 0.0100 0.0100 0.0200		0 0.002753 0 0.03601	101 100 96.8	75 75 75 75	125 125 125 125	0000	0000		
Sample ID: 0607A58-006BMSD Client ID: Analyte	58-006BMSD	SampType: MSD Batch ID: 73426 Result	TestCoc Testh PQL	TestCode: 6010B_W_ TestNo: \$W6010B PQL SPK value	_T Units: mg/L SPK Ref Val	, , , , , , , , , , , , , , , , , , ,	Prep Date: Analysis Date: LowLimit H	7/24/20 7/25/20 ighLimit	06 06 RPD Ref Val	RunNo: 87814 SeqNo: 1745197 %RPD RPI	114 15197 RPDLimit	Qual
Cadmium		1.034	0.00500	-	0	103	75	125	1.011	2.30	20	
Qualifiers: B	Analyte detec Holding times RPD outside	Analyte detected in the associated Method Blank Holding times for preparation or analysis exceeded RPD outside accepted recovery limits	d Blank exceeded	BRL Below I J Analyte S Spike R	Below Reporting Limit Analyte detected below quantitation limits Spike Recovery outside accepted recovery limits	titation limi	ts y limits	ΞZ	Value above quantitation range Analyte not NELAC certified	itation range C certified	Pa	Page 1 of 2

Page 1 of 2

CLIENT: Environmental Strategies Corporation

Work Order: 0607A49

Project: NL

TestCode: 6010B_W_T

ANALYTICAL QC SUMMARY REPORT

Sample ID: 0607A58-006BMSD SampType: MSD	SampType: MSD	TestCo	de: 6010B_W_	TestCode: 6010B_W_T Units: mg/L		Prep Dat	Prep Date: 7/24/2006	90	RunNo: 87814	814	
Client ID:	Batch ID: 73426	Test	TestNo: SW6010B			Analysis Date: 7/25/2006	e: 7/25/20	90	SeqNo: 1745197	45197	
Analyte	Result	Pal	SPK value SPK Ref Val	SPK Ref Val	%REC	LowLimit	HighLimit	%REC LowLimit HighLimit RPD Ref Val	%RPD	%RPD RPDLimit Qual	Qual
Copper	1.021	0.0100	-	0.002753	102	75	125	1.004	1.71	8	
Lead	0.9827	0.0100	~	0	98.3	75	125	0.9682	1.49	20	
Zinc	1.037	0.0200	•	0.03601	100	75	125	1.018	<u>18</u> .	50	

Value above quantitation range	Analyte not NELAC certified	
Ħ	Z	
BRL Below Reporting Limit	Analyte detected below quantitation limits	Spike Recovery outside accepted recovery limits
BRL	-	S Spik
Analyte detected in the associated Method Blank	Holding times for preparation or analysis exceeded	RPD outside accepted recovery limits
В	H	~
Qualifiers:		

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 $\Im \bigcirc$ total pages (including cover letter).

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

Sincerely,

Universa Larario 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

NSP Environment & Energy

AMPLED BY G'SAIL BEAUTIEN

HONE: 418-635.4600

SAMPLE ID

CHAIN OF CUSTODY

Work Order: 0905T3

MU α No # of Containers to check on the status of your results, place bottle www.aesatlanta.com Tumaround Time Request Standard 5 Business Days Samples Chilled Visit our website Total # of Containers orders, etc. RECEIPT REMARKS en wet ice **&**0000 Date: ANALYSIS REQUESTED SITE ADDRESS, 30 BISIL P ST NW PROJECT INFORMATION PRESERVATION (See codes) NL/Atlanta ¥9 × **38TM** × ROJECT NAME X ROECT #: ጷ X X × X DATE/TIME <u>≫</u> Z Matrix (See codes) GW \mathscr{E} Z દ્ધ ઢ ર્જુ くり Z ટુ ર્દ્ર 05:21 60/82/5 3 Boxborough, MA 01719 1740 massachusetts Ave Composite 978-264-0537 Ì × X × Grab X × X X × SIGNATURE 16:55 14.34 16:15 10:05 11:47 8,55 12:15 14.00 843 11:02 230 TIME SAMPLED 5/27/09 RECEIVED BY 10/32/5 FAX 5/28/09

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. GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water MATRIX CODES: A = Air

UPS MAIL COURIER

LIENT FedEx

OTHER

GREYHOUND

N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice

PRESERVATIVE CODES:

NA = None White Copy - Original; Yellow Copy - Client

O = Other (specify)

Same Day Rush (auth req.)

Fax? Y/N

DATA PACKAGE: E-mail? 🔇 / N;

STATE PROGRAM (if any):

Next Business Day Rush

6 Be aulieu

SEND REPORT TO:

INVOICE TO: (IF DIFFERENT FROM ABOVE)

SHIPMENT METHOD

SPECIAL INSTRUCTIONS/COMMENTS

Trip Blank

ELINQUISHED BY

9-MW MW-9

MW-70

MW

アノグス

10

MW-100 MW-7E

MW-3 MW-2 MW18

MW-4 MW-5

VIA

2 Business Day Rush

Sample/Cooler Receipt Checklist

Client USP Env.		Work Order	Number 09055 28
Checklist completed by Aud S. Signature Date	 28 /09		
Carrier name: FedEx UPS Courier Client US	S Mail Other	r	_
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 3.1°C Cooler #2 Cooler #3	_ Cooler #4 _	Coo	ler#5 Cooler #6
Chain of custody present?	Yes <u></u>	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 su	bmitted	Yes <u></u>	No
Water - pH acceptable upon receipt?	Yes _	No	Not Applicable
Adjusted?			
Sample Condition: Good Other(Explain)			
(For diffusive samples or AIHA lead) Is a known blank includ	led? Yes	N	0

See Case Narrative for resolution of the Non-Conformance.

\L\Quality Assurance\Checklists Procedures Sign-Off Templates\Checklists\Sample Receipt Checklists\Sample_Cooler_Receipt_Checklist

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

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

Qualif	iers
~	

* 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

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	SW6010C				(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

Qu	- 1	 ٠	

- 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

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	SW6010C				(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

ifiers:

* 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

Date: 04-Jun-09

CLIENT:

WSP Environmental Strategies Corp

Client Sample ID: MW-2

Project:

NL/Atlanta

Collection Date: 5/27/2009 11:02:00 AM

Lab ID:

0905J28-004

Matrix: GROUNDWATER

Analyses		Result	Reporting Limit	Qual Units	BatchID	Dilution Factor	Date Analyzed
METALS, TOTAL	SW6010C			(SV	V3010A)		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 ORGANI	C COMPOUNDS I	BY GC/MS SV	W8260B	(SV	V5030B)		Analyst: NWH
Methyl tert-butyl ethe	r	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-Bromofluor	obenzene	103	61.3-128	%REC	113913	1	6/1/2009 2:16 PM
Surr: Dibromofluor	omethane	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

Ons	lifiers:
Qua	mici 3.

- 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

Date: 04-Jun-09

WSP Environmental Strategies Corp **CLIENT:**

Client Sample ID: MW-8

Project: Collection Date: 5/27/2009 11:47:00 AM NL/Atlanta Lab ID: 0905J28-005 Matrix: GROUNDWATER

Analyses		Result	Reporting Limit	Qual Units	BatchID	Dilution Factor	Date Analyzed
METALS, TOTAL	SW6010C			(SV	V 3010A)		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 ORGANI	C COMPOUNDS E	BY GC/MS SV	V8260B	(SV	V5030B)		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-Bromofluoro	obenzene	102	61.3-128	%REC	113913	1	5/30/2009 6:40 PM
Surr: Dibromofluoro	omethane	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

\sim				
v	ua	ш	iers	:

Value exceeds Maximum Contaminant Level

BRL Below Reporting Limit

Holding times for preparation or analysis exceeded Н

Analyte not NELAC certified

В Analyte detected in the associated Method Blank

Greater than Result value

Estimated (Value above quantitation range)

S Spike Recovery outside limits due to matrix

See Case Narrative Narr

NC Not Confirmed

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

0	 	: c	٠.	 _	_

- 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)

Date: 04-Jun-09

S Spike Recovery outside limits due to matrix

Narr See Case Narrative

NC Not Confirmed

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

O	เเล	lif	ĩe	rs:
v	ua			

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

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			(S)	W3010A)		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
OLATILE ORGANI	C COMPOUNDS	BY GC/MS SV	W8260B	(S)	W5030B)		Analyst: NWH
Methyl tert-butyl ethe	r	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-Bromofluor	obenzene	107	61.3-128	%REC	113913	1	5/30/2009 7:08 PM
Surr: Dibromofluor	omethane	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

_		
Oua	lifiers:	

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

Date: 04-Jun-09

CLIENT: WSP Environmental Strategies Corp

Project: NL/Atlanta Lab ID: 0905J28-009

Client Sample ID: MW-7D

Collection Date: 5/27/2009 4:15:00 PM

Matrix: GROUNDWATER

Analyses		Result	Reporting Limit	Qual Units	BatchID	Dilution Factor	Date Analyzed
METALS, TOTAL	SW6010C			((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

Qualif	iers
--------	------

- Value exceeds Maximum Contaminant Level
- BRL Below Reporting Limit
- Н Holding times for preparation or analysis exceeded
- Ν Analyte not NELAC certified
- Analyte detected in the associated Method Blank В
- Greater than Result value

- Estimated (Value above quantitation range)
- S Spike Recovery outside limits due to matrix

Narr See Case Narrative

Not Confirmed NC

CLIENT:

WSP Environmental Strategies Corp

Client Sample ID: MW-7

Project: Collection Date: 5/27/2009 3:15:00 PM NL/Atlanta Lab ID: 0905J28-010 Matrix: GROUNDWATER

Analyses		Result	Reporting Limit	Qual Units	BatchID	Dilution Factor	Date Analyzed
METALS, TOTAL	SW6010C			(SV	V 3010A)		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 ORGANI	C COMPOUNDS I	BY GC/MS SI	W8260B	(SV	V5030B)		Analyst: NWH
Methyl tert-butyl ethe	r	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-Bromofluor	obenzene	102	61.3-128	%REC	113913	1	5/30/2009 7:35 PM
Surr: Dibromofluor	omethane	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

0	ua	lif	īc	rs

Value exceeds Maximum Contaminant Level

BRL Below Reporting Limit

Н Holding times for preparation or analysis exceeded

Analyte not NELAC certified Ν

Analyte detected in the associated Method Blank

Greater than Result value

Estimated (Value above quantitation range)

Date: 04-Jun-09

S Spike Recovery outside limits due to matrix

Narr See Case Narrative

NC Not Confirmed

WSP Environmental Strategies Corp

Client Sample ID: MW-9

Project:

CLIENT:

Collection Date: 5/27/2009 4:55:00 PM

NL/Atlanta Lab ID: 0905J28-011

Matrix: GROUNDWATER

Date: 04-Jun-09

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

BRL Below Reporting Limit

Н Holding times for preparation or analysis exceeded

Analyte not NELAC certified Ν

Analyte detected in the associated Method Blank В

Greater than Result value

Е Estimated (Value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See Case Narrative

NC Not Confirmed

Date: 04-Jun-09

CLIENT: WSP Environmental Strategies Corp

Project: NL/Atlanta Lab ID: 0905J28-012 Client Sample ID: MW-6 Collection Date: 5/28/2009 9:45:00 AM

Matrix: GROUNDWATER

Analyses		Result	Reporting Limit	Qual Units	BatchID	Dilution Factor	Date Analyzed
METALS, TOTAL	SW6010C			(SV	V3010A)		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 E	Y GC/MS S	W8260B	(SV	V5030B)		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-Bromofluorobe	enzene	107	61.3-128	%REC	113913	10	6/2/2009 4:12 PM
Surr: 4-Bromofluorobe	enzene	109	61.3-128	%REC	113913	100	6/2/2009 9:43 PM
Surr: 4-Bromofluorobe	enzene	108	61.3-128	%REC	113913	1	5/30/2009 8:03 PM
Surr: Dibromofluorome	ethane	112	67.8-130	%REC	113913	100	6/2/2009 9:43 PM
Surr: Dibromofluorome	ethane	104	67.8-130	%REC	113913	1	5/30/2009 8:03 PM
Surr: Dibromofluorome	ethane	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

Value exceeds Maximum Contaminant Level

BRL Below Reporting Limit

Narr See Case Narrative

NC Not Confirmed

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

WSP Environmental Strategies Corp

Client Sample ID: TRIP BLANK

CLIENT: Project:

NL/Atlanta

Collection Date: 5/27/2009

Lab ID:

0905J28-013

Matrix: AQUEOUS

Date: 04-Jun-09

Analyses	Result	Reporting Limit	Qual Units	BatchID	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS	BY GC/MS SI	W8260B	(SV	V5030B)		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

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

WSP Environmental Strategies Corp 0905J28 CLIENT:

Work Order:

NL/Atlanta Project:

SW6010C TestCode: METALS, TOTAL

ANALYTICAL QC SUMMARY REPORT

Date: 04-Jun-09

Sample ID: MB-113937 Client ID:	SampType: MBLK TestCode: META	MBLK B.	atch	JD: 113937 SW6010C	Units: mg/L		Prep Date: 6/2/2009 Analysis Date: 6/3/2009	6/2/2009		RunNo: 149178 SeqNo: 3066245	178	
Analyte		Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium Copper Lead Zinc		BRL BRL BRL BRL	0.00500 0.0100 0.0100 0.0200	0000	0000	0000	0000	0000	0000	0000		
Sample ID: LCS-113937 Client ID:	SampType: LCS TestCode: ME	: LCS B METALS, TOTAL	Batch II TOTAL SI	Batch ID: 113937 L SW6010C	Units: mg/L		Prep Date: Analysis Date:	6/2/2009		RunNo: 149178 SeqNo: 3066243	178 5243	
Analyte		Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium Copper Lead Zinc		1.014 0.9846 1.004 1.036	0.00500 0.0100 0.0100 0.0200		0 0 0.006299	101 98.5 100 103	85 85 85 85	115 115 115	0000	0000		
Sample ID: 0905J28-001AMS Client ID: MW-5 Analyte	SampType: MS TestCode: ME	METALS, TOTAL Result RPT L	Batch II TOTAL SI RPT Limit	Batch ID: 113937 L SW6010C Limit SPK value	Units: mg/L SPK Ref Val	, %REC	Prep Date: 6/2/2009 Analysis Date: 6/3/2009 LowLimit HighLimit RPD Ref Val	: 6/2/2009 : 6/3/2009 HighLimit	RPD Ref Val	RunNo: 149178 SeqNo: 3066250 %RPD RPI	178 6250 RPDLimit	Qual
Cadmium Copper Lead Zinc		1.008 0.9826 0.9948 1.033	0.00500 0.0100 0.0100		0 0 0 0.002178	101 98.3 99.5 103	75 75 75 75	125 125 125 125	0000	0000		

Qualifiers: <	Less than Result value	۸	Greater than Result value	В	Analyte detected in the associated Method Blank
BRL	Below Reporting Limit	Э	Estimated value above quantitation range	Η	Holding times for preparation or analysis exceeded
7	Estimated value detected below Reporting Limit	z	Analyte not NELAC certified	~	RPD outside limits due to matrix
Rpt Li	Rpt Lim Reporting Limit	S	Spike Recovery outside limits due to matrix		

WSP Environmental Strategies Corp CLIENT:

0905J28 NL/Atlanta Work Order:

Project:

TestCode: METALS, TOTAL SW6010C

ANALYTICAL QC SUMMARY REPORT

Sample ID:	Sample ID: 0905J28-001AMSD SampType: MSD	SampType:	MSD	Batch ID	ID: 113937	Units: mg/L		Prep Date:	e: 6/2/2009	6	RunNo: 149178	178	
Client ID: MW-5	MW-5	TestCode: METALS, TOTAL	METALS,	Ø	W6010C		-	Analysis Date: 6/3/2009	e: 6/3/200	6	SeqNo: 3066252	6252	
Analyte			Result	Result RPT Limit	SPK value	SPK value SPK Ref Val	%REC	LowLimit	HighLimit	%REC LowLimit HighLimit RPD Ref Val	%RPD	%RPD RPDLimit Qual	Qual
Cadmium			1.021	0.00500	-	0	102	75	125	1.008	1.33	20	
Copper			0.9923	0.0100	-	0	99.2	75	125	0.9826	0.979	20	
Lead			1.005	0.0100	_	0	100	75	125	0.9948	0.971	20	
Zinc			1.044	0.0200	_	0.002178	104	75	125	1.033	1.10	20	

e dalifiers: < BRL	Less than Result value Below Reporting Limit	ν п	Greater than Result value Estimated value above quantitation range	В	Analyte detected in the associated Method Blank Holding times for preparation or analysis exceeded	
7	Estimated value detected below Reporting Limit	z	Analyte not NELAC certified	ĸ	RPD outside limits due to matrix	
Rpt Lir	Rpt Lim Reporting Limit	S	Spike Recovery outside limits due to matrix			

Page 3 of 4

ANALYTICAL QC SUMMARY REPORT

WSP Environmental Strategies Corp CLIENT:

0905J28 NL/Atlanta Work Order:

Project:

TestCode: Volatile Organic Compounds by GC/MS SW8260B

	Volatile O Result		2	Units: ug/L		Prep Date:	e: 5/30/2009	6	KUNNO: 1489/1	
e ert-butyl ether salene ert-butyl ether salene . , Total 4-Bromofluorobenzene Dibromofluoromethane Toluene-d8	Result	TestCode: Volatile Organic Compounds by GC/MS	ounds by GC/	MS SW8260B		Analysis Date:	e: 5/30/2009	6	SeqNo: 3061594	
yl ether nofluorobenzene nefluoromethane ne-d8 SS-113913		RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit	Qual
yl ether nofluorobenzene nofluoromethane ne-d8 SS-113913	BRL	5.0								
yl ether nofluorobenzene nofluoromethane ne-d8 SS-113913	BRL	5.0								
nofluorobenzene nofluoromethane ne-d8 SS-113913	BRL	5.0								
nofluorobenzene nofluoromethane ne-d8 SS-113913	BRL	5.0								
nofluorobenzene nofluoromethane ne-d8 SS-113913	BRL	5.0								
4-Bromofluorobenzene Dibromofluoromethane Toluene-d8 ID: LCS-113913 D:	BRL	5.0								
Dibromofluoromethane Toluene-d8 ID: LCS-113913 D: e 4-Bromofluorobenzene	52.13	0	50	0	104	61.3	128	0	0	
Toluene-d8 ID: LCS-113913 D: e 4-Bromofluorobenzene	53.33	0	50	0	107	67.8	130	0	0	
ID: LCS-113913): e t 4-Bromofluorobenzene	48.96	0	20	0	6.76	9.07	121	0	0	
e 4-Bromofluorobenzene	SOT	Batch II	ID: 113913	Units: ug/L		Prep Date:	e: 5 /30/2009	60	RunNo: 148971	
Analyte Benzene Toluene Surr: 4-Bromofluorobenzene	Volatile O	TestCode: Volatile Organic Compounds by GC/MS	ounds by GC/	MS SW8260B		Analysis Date:	e: 5/30/2009	60	SeqNo: 3061595	
Benzene Toluene Sur: 4-Bromofluorobenzene	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit	t Qual
Toluene Surr: 4-Bromofluorobenzene	48.24	5.0	50	0	96.5	77.6	130	0	0	
Surr: 4-Bromofluorobenzene	47.8	5.0	50	0	92.6	76.8	132	0	0	
	51.09	0	50	0	102	61.3	128	0	0	
Surr. Dipromotiuoromethane	52.94	0	50	0	106	67.8	130	0	0	
Surr: Toluene-d8	48.9	0	50	0	8.76	70.6	121	0	0	
Sample ID: 0905i23-003AMS SampType: MS	MS	Batch II	Batch ID: 113913	Units: ug/L		Prep Date:	e: 5/30/2009	60	RunNo: 148971	
Client ID: TestCode:	Volatile O	rganic Comp	ounds by GC	TestCode: Volatile Organic Compounds by GC/MS SW8260B		Analysis Date:	e: 5/30/2009	60	SeqNo: 3061597	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit	t Qual
Benzene	47.8	5.0	50	0	92.6	74.4	134	0	o	
Toluene	48.41	5.0	50	0	96.8	73.7	138	0	0	
Surr: 4-Bromofluorobenzene	51.26	0	50	0	103	61.3	128	0	0	
Surr: Dibromofluoromethane	52.72	0	50	0	105	8.79	130	0	0	
Qualifiers: < Less than Result value			0 ^	Greater than Result value	ne		BB	Analyte detec	Analyte detected in the associated Method Blank	d Blank
BRL Below Reporting Limit				Estimated value above quantitation range	quantitation	range	н	Holding time	Holding times for preparation or analysis exceeded	exceeded
J Estimated value detected below Reporting Limit	d below Rep	orting Limit	v z	Analyte not NELAC certified	rtified		×	RPD outside	RPD outside limits due to matrix	
Rpt Lim Reporting Limit				Spike Recovery outside limits due to matrix	limits due t	o matrix				

ANALYTICAL QC SUMMARY REPORT

WSP Environmental Strategies Corp 0905J28 Work Order: CLIENT:

NL/Atlanta Project:

TestCode: Volatile Organic Compounds by GC/MS SW8260B

Sample ID: 0905I23-003AMS Client ID:	SampType: MS TestCode: Vol	MS Volatile C	SampType: MS Batch IC TestCode: Volatile Organic Compo	Batch ID: 113913 Compounds by GC/I	ID: 113913 Units: ug/L bounds by GC/MS SW8260B		Prep Date	Prep Date: 5/30/2009 Analysis Date: 5/30/2009		RunNo: 148971 SeqNo: 3061597	76	
Analyte		Result	RPT Limit	SPK value	SPK value SPK Ref Val	%REC	LowLimit	%REC LowLimit HighLimit RPD Ref Val	PD Ref Val	%RPD RPDLimit	OLimit	Qual
Surr: Toluene-d8		49.79	0	50	0	9.66	70.6	121	0	0		
Sample ID: 0905123-003AMSD	SampType: MSD	MSD	Batch IC	Batch ID: 113913	Units: ug/L		Prep Date	Prep Date: 5/30/2009		RunNo: 148971		
Client ID:	TestCode:	Volatile C	TestCode: Volatile Organic Compounds by GC/MS SW8260B	unds by GCA	MS SW8260B		Analysis Date	Analysis Date: 5/30/2009		SeqNo: 3061600	0	
Analyte		Result	RPT Limit	SPK value	SPK value SPK Ref Val	%REC	LowLimit	%REC LowLimit HighLimit RPD Ref Val	PD Ref Val	%RPD RPDLimit		Qual
Benzene		47.22	5.0	20	0	94.4	74.4	134	47.8	1.22	20	
Toluene		48.32	5.0	20	0	9.96	73.7	138	48.41	0.186	20	
Surr: 4-Bromofluorobenzene		53.85	0	20	0	108	61.3	128	51.26	0	0	
Surr: Dibromofluoromethane		53.07	0	90	0	106	8'.29	130	52.72	0	0	
Surr: Toluene-d8		49.36	0	50	0	98.7	9.07	121	49.79	0	0	

alifiers: < BRL	Less than Result value Below Reporting Limit	ΛШ	Greater than Result value Estimated value above quantitation range	вна	Analyte detected in the associated Method Blank Holding times for preparation or analysis exceeded
J Rpt Lim	Stimated value detected below keporting Limit Rpt Lim Reporting Limit	zα	Analyte not NELAC certified Spike Recovery outside limits due to matrix	×	KFD 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

Dear Gigi Beaulieu:

Order No.: 0907482

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,

James Forrest
Project Manager

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

ANALYTICAL ENVIRONMENTAL SERVICES, INC

3785 Presidential Parkway, Atlanta GA 30340-3704

CHAIN OF CUSTODY

Work Order: (C) 907427

m 7 No # of Containers 2 2 your results, place bottle Same Day Rush (auth req.) ot to check on the status of Turnaround Time Request 1 11 111 www.aesatlanta.com Standard 5 Business Days Fax? Y/N Next Business Day Rush Visit our website 2 Business Day Rush Total # of Containers orders, etc. REMARKS STATE PROGRAM (if any): Page_ DATA PACKAGE: Other E-mail? N; Date: 717/091 80000 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. SEND REPORT TO: Aidia Deaulieus Com 430 Biship St NW ANALYSIS REQUESTED PROJECT INFORMATION PRESERVATION (See codes) Atlanta, 6A NC Atlanta 1275/09 INVOICE TO: (IF DIFFERENT FROM ABOVE) PROJECT NAME: SITE ADDRESS: PROJECT # X QUOTE #: X X VICE (8216B) × * × DATE/TIME 50 30 3 (See codes) 7 5 Matrix BELF COURIER 1440 Massichusats Fie 00% Boxboxagh, MA 0 1719 Composite SHIPMENT METHOD UPS MAIL × VIA VIA × Grab × OTHER 4550-106 (369) 12:00 Sheather UG 14:50 11:20 9.55 CLIENT FedEx GREYHOUND TIME SAMPLED RECEIVED BY 7/3/09 718/09 DATE OUT Z 718/08.13:00 DATE/TIME DVI WSP Environment : Exercit TROPOSON SAMPLE ID MW-130 MW-13 NW-IB SPECIAL INSTRUCTIONS/COMMENTS: 41-MM (978) (255/2007) Heather USIR Heelber **VELINQUISHED BY** AMPLED BY -22 10 2 13 11 0

W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water O = Other (specify) SE = Sediment SO = Soil SW = Surface Water GW = Groundwater MATRIX CODES. A = Air PRESERVATIVE CODES.

NA = None White Copy - Original; Yellow Copy - Client

Sample/Cooler Receipt Checklist

Client WSP Env Energy		Work Order	Number 0907482
Checklist completed by Signature Date	/8/9		
Carrier name: FedEx UPS Courier Client US	S Mail Othe	r	_
Shipping container/cooler in good condition?	Yes 🔽	No 1	Not Present
Custody seals intact on shipping container/cooler?	Yes	No 1	Not Present
Custody seals intact on sample bottles?	Yes	No 1	Not Present
Container/Temp Blank temperature in compliance? (4°C±2)*			
Cooler #1 3.2 Cooler #2 Cooler #3	Cooler #4 _	Cool	er#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 1	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 V	No _	
Proceed with Standard TAT as per project history?	Yes	No	Not Applicable 1
Water - VOA vials have zero headspace? No VOA vials su	ıbmitted	Yes 🗸	No
Water - pH acceptable upon receipt?	Yes 🗹	No	Not Applicable
Adjusted?	Che	cked by	<u> </u>
Sample Condition: Good Other(Explain)		160	30
(For diffusive samples or AIHA lead) Is a known blank include	led? Yes	No	

See Case Narrative for resolution of the Non-Conformance.

\L\Quality Assurance\Checklists Procedures Sign-Off Templates\Checklists\Sample Receipt Checklists\Sample_Cooler_Receipt_Checklist

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

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.

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 S'	W6010C		10 38	(S)	W3010A)		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 C	OMPOUNDS BY	GC/MS SV	W8260B	(S)	N5030B)		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-Bromofluoroben	zene	85.2	61.3-128	%REC	115538	1	7/13/2009 8:29 PM
Surr: Dibromofluoromet	hane	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

Ona	litiers

- 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

Date: 17-Jul-09

CLIENT:

WSP Environmental Strategies Corp

Client Sample ID: MW-15

Project:

NL - Atlanta

Collection Date: 7/8/2009 9:55:00 AM

Lab ID:

0907482-002

Matrix: GROUNDWATER

Zuo ID.	07.02.002				1.2001		
Analyses		Result	Reporting Limit	Qual Units	BatchID	Dilution Factor	Date Analyzed
METALS, TOTAL	SW6010C			(S	W3010A)		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 ORGANI	C COMPOUNDS E	Y GC/MS S	N8260B	(S	W5030B)		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-Bromofluore	benzene	83.5	61.3-128	%REC	115538	1	7/13/2009 8:58 PM
Surr: Dibromofluoro	methane	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

Q	ua	lif	ic	rs:

- 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

Date: 17-Jul-09

CLIENT:

WSP Environmental Strategies Corp

Client Sample ID: MW-13

Project:

NL - Atlanta

Collection Date: 7/8/2009 11:20:00 AM

Lab ID:

0907482-003

Matrix: GROUNDWATER

Analyses	**	Result	Reporting Limit	Qual Units	BatchID	Dilution Factor	Date Analyzed
METALS, TOTAL	SW6010C			(SV	V3010A)		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 G	C/MS SV	V8260B	(SV	/5030B)		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-Bromofluorobe	nzene	80.1	61.3-128	%REC	115538	1	7/13/2009 9:28 PM
Surr: Dibromofluorome	ethane	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

ua			

- 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

Date: 17-Jul-09

CLIENT:

WSP Environmental Strategies Corp

Client Sample ID: MW-130

Project:

NL - Atlanta

Collection Date: 7/8/2009 12:00:00 PM

Lab ID:

0907482-004

Matrix: GROUNDWATER

Analyses	Legiting (fig. 1889).	Result	Reporting Limit	Qual Units	BatchID	Dilution Factor	Date Analyzed
METALS, TOTAL S	W6010C			(SV	V3010A)		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 C	OMPOUNDS BY	GC/MS SV	V8260B	(SV	V5030B)		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-Bromofluorobei	nzene	81.7	61.3-128	%REC	115538	1	7/13/2009 9:58 PM
Surr: Dibromofluorome	thane	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

0	ua	li	fī	eı	
v	ua	11	TT	CI	3.

- 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

Date: 17-Jul-09

CLIENT:

WSP Environmental Strategies Corp

Client Sample ID: TB070809

Project:

NL - Atlanta

Collection Date: 7/8/2009

Lab ID:

0907482-005

Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual Units	BatchID	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS	BY GC/MS SY	W8260B	(SV	V5030B)		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

\sim			-				
Q	11.0	111	11	P	"	c	٠
v	uı			•		0	

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

CLIENT: Work Order:

NL - Atlanta Project:

ANALYTICAL QC SUMMARY REPORT TestCode: METALS, TOTAL SW6010C WSP Environmental Strategies Corp 0907482

Date: 17-Jul-09

Sample ID: MB-115381	SampType: MBLK	MBLK	Batch II	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 Hi	HighLimit RPD F	RPD Ref Val	%RPD RPDLimit	Qual
Cadmium		BRL	0.00500	0	0	0	0	0	0	0	
Copper		BRL	0.0100	0	0	0	0	0	0	0	
Lead		BRL	0.0100	0	0	0	0	0	0	0	
Zinc		BRL	0.0200	0	0	0	0	0	0	0	
Sample ID: LCS-115381	SampType: LCS	CS	Batch II	Batch ID: 115381	Units: mg/L		Prep Date:	7/9/2009	3	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 Hi	HighLimit RPD Ref Val	∂ef Val	%RPD RPDLimit	Qual
Cadmium		1.024	0.00500	•	0	102	85	115	0	0	
Copper		1.036	0.0100	•	0	104	85	115	0	0	
Lead		1.044	0.0100	_	0	104	85	115	0	0	
Zinc	2	1.02	0.0200	~	0.004477	102	85	115	0	0	
Sample ID: 0907482-001BMS	SampType: MS	MS	Batch II	Batch ID: 115381	Units: mg/L		Prep Date: 7/9/2009	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 Hi	HighLimit RPD Ref Val	∂ef Val	%RPD RPDLimit	Qual
Cadmium		1.003	0.00500	-	0.002917	100	75	125	0	0	
Copper		1.023	0.0100	~	0.002255	102	75	125	0	0	
Lead		1.001	0.0100		0	100	75	125	0	0	
Zinc		1.033	0.0200	~	0.05064	98.2	75	125	0	0	

Qualifiers:	٧	Less than Result value	٨	Greater than Result value	В	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	ш	Estimated value above quantitation range	Ξ	Holding times for preparation or analysis exceeded
	-	Estimated value detected below Reporting Limit	z	Analyte not NELAC certified	K	RPD outside limits due to matrix
	Rpt Lim R	Reporting Limit	S	Spike Recovery outside limits due to matrix		

WSP Environmental Strategies Corp 0907482 NL - Atlanta

CLIENT: Work Order:

Project:

TestCode: METALS, TOTAL SW6010C

Sample ID: 0907482-001BMSD	SampType: MSD	MSD	Batch ID	ID: 115381	Units: mg/L		Prep Date:	e: 7/9/2009		RunNo: 151529	529	
Client ID: MW-14	TestCode: METALS, TOTAL	METALS,		SW6010C		4	Analysis Date: 7/9/2009	e: 7/9/2009		SeqNo: 3119805	9805	
Analyte		Result	Result RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%REC LowLimit HighLimit RPD Ref Val	%RPD	%RPD RPDLimit	Qual
Cadmium		1.008	0.00500	~	0.002917	101	75	125	1.003	0.579	20	
Copper		1.029	0.0100	-	0.002255	103	75	125	1.023	0.576	20	
Lead		1.007	0.0100	~	0	101	75	125	1.001	0.594	20	
Zinc		1.046	0.0200	~	0.05064	99.5	75	125	1.033	1.24	20	

Qualifiers:	٧	Less than Result value	٨	Greater than Result value	В	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	Ε	Estimated value above quantitation range	Н	Holding times for preparation or analysis exceeded
	-	Estimated value detected below Reporting Limit	z	Analyte not NELAC certified	~	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Page 3 of 4

WSP Environmental Strategies Corp 0907482

Work Order:

CLIENT:

NL - Atlanta Project:

TestCode: Volatile Organic Compounds by GC/MS SW8260B

Sample ID: MB-115538	SampType: MBLK	MBLK	Batch	Batch ID: 115538	Units: ug/L		Prep Date:	7/11/2009		RunNo: 151753	53	
Client ID:	TestCode:		Volatile Organic Comp	pounds by GC/MS	MS SW8260B		Analysis Date:	7/11/2009		SeqNo: 3128941	941	20
Analyte		Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit F	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	8.79	130	0	0		
Surr: Toluene-d8		46.67	0	50	0	93.3	70.6	121	0	0		
Sample ID: LCS-115538	SampType: LCS	: TCS	Batch I	Batch ID: 115538	Units: ug/L		Prep Date:	7/11/2009		RunNo: 151753	53	
Client ID:	TestCode:	Volatile (Volatile Organic Comp	ounds by GC	pounds by GC/MS SW8260B		Analysis Date:	7/11/2009	•	SeqNo: 3124586	586	
Analyte		Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit F	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	8.96	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	9.07	121	0	0		
Sample ID: 0907472-002AMS	SampType: MS	: MS	Batch	Batch ID: 115538	Units: ug/L		Prep Date:	7/11/2009		RunNo: 151850	50	
Client ID:	TestCode:	Volatile (Organic Comp	ounds by GC	TestCode: Volatile Organic Compounds by GC/MS SW8260B		Analysis Date:	7/14/2009	m	SeqNo: 3130122	122	
Analyte		Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit F	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene		57.66	5.0	50	0	115	74.4	134	0	0	4	
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	С	106	8.79	130	0	0		
Qualifiers: < Less than	Less than Result value			^	Greater than Result value	Ie		В	Analyte detect	Analyte detected in the associated Method Blank	ed Method B	lank
BRL Below R	Below Reporting Limit			E	Estimated value above quantitation range	quantitation	range	Н	Holding times	Holding times for preparation or analysis exceeded	r analysis exc	eeded
J Estimate	Estimated value detected below Reporting Limit	ed below Rep	oorting Limit		Analyte not NELAC certified	rtified		R	RPD outside 1	RPD outside limits due to matrix	×	
Rpt Lim Reporting Limit	ng Limit			S	Spike Recovery outside limits due to matrix	limits due to	matrix					

WSP Environmental Strategies Corp 0907482 NL - Atlanta CLIENT:

Work Order:

Project:

TestCode: Volatile Organic Compounds by GC/MS SW8260B

Sample ID: 0907472-002AMS	SampType: MS		Batch ID	ID: 115538	Units: ug/L		Prep Dat	Prep Date: 7/11/2009	6	RunNo: 151850		
Client ID:	TestCode: Volatile Organic Compounds by GC/MS SW8260B	tile Orgar	ic Compo	unds by GC/I	MS SW8260B	1	Analysis Da	Analysis Date: 7/14/2009	6	SeqNo: 3130122	22	
Analyte	Res	Result RF	RPT Limit	SPK value	SPK value SPK Ref Val	%REC	LowLimit	%REC LowLimit HighLimit RPD Ref Val	RPD Ref Val	%RPD RPDLimit Qual	PDLimit	Qual
Surr: Toluene-d8	52.34	34	0	20	0	105	70.6	121	0	0		
Sample ID: 0907472-002AMSD	SampType: MSD		Batch ID	ID: 115538	Units: ug/L		Prep Dat	Prep Date: 7/11/2009	6	RunNo: 151850	٥	
Client ID:	TestCode: Volatile Organic Compounds by GC/MS SW8260B	tile Orgar	ic Compo	unds by GC/I	WS SW8260B	`	Analysis Da	Analysis Date: 7/14/2009	o	SeqNo: 3130123	23	
Analyte	Result		RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	%REC LowLimit HighLimit RPD Ref Val	Ref Val	%RPD RPDLimit		Qual
Benzene	59.	59.42	5.0	20	0	119	74.4	134	57.66	3.01	20	
Toluene	58.92	92	5.0	20	0	118	73.7	138	58.65	0.459	20	
Surr: 4-Bromofluorobenzene	51.53	53	0	50	0	103	61.3	128	52.41	0	0	
Surr: Dibromofluoromethane	49.	49.96	0	20	0	6.66	8.79	130	52.8	0	0	
Surr: Toluene-d8	53.05	05	0	20	0	106	9.07	121	52.34	0	0	

Qualifiers:	٧	Less than Result value	٨	Greater than Result value	В	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	田	Estimated value above quantitation range	Ξ	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	z	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	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

Dear Gigi Beaulieu:

Order No.: 0908781

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 total pages (including cover letter).

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

Sincerely,

James Forrest

Project Manager

dor

CHAIN OF CUSTODY ANALYTICAL ENVIRONMENTAL SERVICES, INC

3785 Presidential Parkway, Atlanta GA 30340-3704

Presidential Parkway, Atlanta GA 30340-3704

AES

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

Work Order: 070878

No # of Containers \geq Same Day Rush (auth req.) your results, place bottle to check on the status of Ш Tumaround Time Request Standard 5 Business Days Fax? Y/N www.aesatlanta.com Next Business Day Rush 2 Business Day Rush = -Visit our website Fotal # of Containers orders, etc. STATE PROGRAM (if any): REMARKS DATA PACKAGE: Other E-mail? Y/N; 80000 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. SEND REPORT TO A LAIL FRUL FRUS POYCUP. COM INVOICE TO: BRAHL, USI (CUSPSYRU). COM (IF DIFFERENT FROM ABOVE) 430 Bisher St NW PROJECT INFORMATION PRESERVATION (See codes) ANALYSIS REQUESTED NLAHAMA PROJECT # 127562 9A PROJECT NAME: SITE ADDRESS: QUOTE #: Jacks impa 8 DATE/TIME GN 30 (See codes) 1 Matrix UPS MAIL COURIER 1740 MUSSACHUSCHE AR Baylaxsugh, MA OIFIG OTHER SELF Composite (978) 264-0537 SHIPMENT METHOD VIA VIA > 9 Grab Josh Col 12:30 11:40 CLIENT FedEx TIME GREYHOUND 50 SAMPLED RECEIVED BY SIGNATURE 8 1209 8/12/109 5 DATE OCT Z 8/12/19:40 DATE/TIME Victals: Ordinium, apport radifizine WSP Environment; Energy MW-1300D MW-1300 MW-13D SAMPLE ID 1978) 635-9600 SPECIAL INSTRUCTIONS/COMMENTS: Heather Usle RELINQUISHED BY SAMPLED B HONE 12 01 11

GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water O = Other (specify) PRESERVATIVE CODES. H+1 = Hydrochloric acid + ice 1 = 1ce only N = Nitric acid + ice 8/M+1 = Sodium Bisulfate/Methanol + ice MATRIX CODES: A = Air

NA = None White Copy - Original; Yellow Copy - Client

Sample/Cooler Receipt Checklist

Client WSD ENV		Work Orde	r Number 0908781
Checklist completed by Kullyn 8/	12/09		
Carrier name: FedEx UPS Courier Client \(\bullet \text{US}	S Mail Othe	r	_
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 3 - 0 Cooler #2 Cooler #3	_ Cooler #4 _	Coo	oler#5 Cooler #6
Chain of custody present?	Yes V	No _	
Chain of custody signed when relinquished and received?	Yes _	No	
Chain of custody agrees with sample labels?	Yes V	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 su	ibmitted	Yes	No
Water - pH acceptable upon receipt?	Yes _	No	Not Applicable
Adjusted?	Chec	cked by/Z	2.1.
Sample Condition: Good Other(Explain)		No. of the last of	
(For diffusive samples or AIHA lead) Is a known blank include	led? Yes		No

See Case Narrative for resolution of the Non-Conformance.

\L\Quality Assurance\Checklists Procedures Sign-Off Templates\Checklists\Sample Receipt Checklists\Sample_Cooler_Receipt_Checklist

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

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			(S ¹	W3010A)		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	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
	В	Analyte detected in the associated Method Blank	<	Less than Result value

Greater than Result value

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			(S	W3010A)		Analyst: MAW
Cadmium		BRL	0.0050	mg/L	117087	1	8/14/2009 3:02 PM
Соррег		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

\sim		110			
11	11 13	1111	10	PTC	٠
v	ua	lifi	u	13	٠

- 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

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	SW6010C			(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
	BRI.	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

WSP Environmental Strategies Corp 0908781 NL-Atlanta CLIENT:

Work Order:

Project:

TestCode: METALS, TOTAL SW6010C

ANALYTICAL QC SUMMARY REPORT

Date: 17-Aug-09

Sample ID: MB-117087 Client ID:	SampType: MBLK TestCode: META	MBLK B: METALS, TOTAL	Batch IE , TOTAL SV	Batch ID: 117087 L SW6010C	Units: mg/L		Prep Date: 8/14/2009 Analysis Date: 8/14/2009	e: 8/14/2009 e: 8/14/2009	60	RunNo: 153819 SeqNo: 3169058	99	
Analyte		Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD R	RPDLimit	Qual
Cadmium		BRL	0.00500	0	0	0	0	0	0	0	1 000 m	
Copper		BRL	0.0100	0	0	0	0	0	0	0		
Lead		BRL	0.0100	0	0	0	0	0	0	. 0		
Zinc		BRL	0.0200	0	0	0	0	0	0	0		
Sample ID: LCS-117087	SampType: LCS	rcs	Batch II	Batch ID: 117087	Units: mg/L		Prep Date:	e: 8/14/2009	6	RunNo: 153819	0	
Client ID:	TestCode:	METALS	METALS, TOTAL SW	W6010C			Analysis Date:	e: 8/14/2009	60	SeqNo: 3169042	42	
Analyte		Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RI	RPDLimit	Qual
Cadmium		1.079	0.00500	_	0	108	85	115	0	0		
Copper		1.067	0.0100	~	0	107	85	115	0	0		
Lead		1.071	0.0100	7	0	107	85	115	0	0		
Zinc		1.081	0.0200		0	108	85	115	0	0		
Sample ID: 0908682-003AMS	SampType: MS	MS	Batch II	Batch ID: 117087	Units: mg/L		Prep Date:	e: 8/14/2009	60	RunNo: 153819	6	
Client ID:	TestCode:	METALS	METALS, TOTAL SW	W6010C			Analysis Date:	e: 8/14/2009	60	SeqNo: 3169063	63	
Analyte		Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD R	RPDLimit	Qual
Cadmium		1.059	0.00500	-	0	106	75	125	0	0		
Copper		1.037	0.0100	•	0	104	75	125	0	0		
Lead		1.056	0.0100	_	0	106	75	125	0	0		
Zinc		1.079	0.0200	•	0.005025	107	75	125	0	0		

Qualifiers:	٧	Less than Result value	٨	Greater than Result value	8	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	Э	Estimated value above quantitation range	Н	Holding times for preparation or analysis exceeded
	7	Estimated value detected below Reporting Limit	Z	Analyte not NELAC certified	ĸ	RPD outside limits due to matrix
	Rpt Lim	1 Reporting Limit	S	Spike Recovery outside limits due to matrix		
						CJ. 1 U

WSP Environmental Strategies Corp 0908781 NL-Atlanta CLIENT:

Work Order:

Project:

TestCode: METALS, TOTAL SW6010C

Sample ID: 0908682-003AMSD	SampType: MSD	MSD	Batch II	ID: 117087	Units: mg/L		Prep Date:	e: 8/14/2009	60	RunNo: 153819	819	
Client ID:	TestCode: METALS, TOTAL	METALS,		SW6010C		•	Analysis Date:	e: 8/14/2009	6(SeqNo: 3169071	9071	
Analyte		Result	Result RPT Limit	SPK value	SPK value SPK Ref Val	%REC	LowLimit	HighLimit	%REC LowLimit HighLimit RPD Ref Val	%RPD	%RPD RPDLimit Qual	Qual
Cadmium		1.078	0.00500	ς-	0	108	75	125	1.059	1.77	20	
Copper		1.054	0.0100	T	0	105	75	125	1.037	1.55	20	
Lead		1.064	0.0100	<u> </u>	0	106	75	125	1.056	0.763	20	
Zinc		1.088	0.0200	~	0.005025	108	75	125	1.079	0.821	20	

Qualifiers:	٧	Less than Result value	٨	Greater than Result value	В	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Estimated value above quantitation range	Η	Holding times for preparation or analysis exceeded
	ſ	Estimated value detected below Reporting Limit	Z	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Rpt Lim Reporting Limit	S	Spike Recovery outside limits due to matrix		



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

Jessian Shilling

Project Manager

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

3080 Presidential Drive Atlanta, GA 30340-3704

CHAIN OF CUSTODY

Work Order: 805E59

Date: 08-14-18 Page / of 2

Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

COMPANY:	ADDRESS:	Stiget			ANALYSI	IS REQUEST	ED			
WSP	15 MILLAND	01.20	159					$\overline{}$	Visit our website	
	75 Allington 4th Flaor Boston, MA	02116	14 15						www.aesatlanta.com for downloadable COCs and to	
PHONE: 6/7-960-4845 SAMPLED BY: AMB	EMAIL: GIGI-BEFULIEU@WS	P. COM	VOCS Metads						log in to your AESAccess account.	itainers
SAMPLED BY: AMB	SIGNATURE:	The.	1						account.	Number of Containers
(4)	SAMPLED:		10th							mber
# SAMPLE ID	DATE TIME	COMPOSITE MATRIX (see codes)			PRESERVA	TION (see co	des)		DEMARKS	Z
	DATE THIVE	N (se	HHI N						REMARKS	
1 MW-800	05-11-18 12:00 X	GW	' X						.1	
2 MW-2	05-11-18 15:50 X	6W	X							
3 MW-7E	05-11-18 17:15 X	GW	X	4						
4 MW-70	05-11-18 18:00 X	GW	XX							
5 MW-7	09-11-18 19:15 X	6W	XX							
6 MW -8	05-11-18 14:25 X	6W	/ X							
7 MW-1	05-12-18 12:35 X	6W	XX							
8 MW-12	05-12-18 14:55 X	641	X							
9 MW-6	05-14-18 11:05 X	6W	XX							
10 MW-9	05-14-18 12:10 X	6-XY								
11 MW-130	05-14-18 15:30 X	6W	XX							
12 MW-13	05-1418 15:25 X	6VY	/XX							
13 MW -14	05-14-18 16:30 X	6W	X							
14 MW -15	05-14-18 14:15 X	6W	X							
RELINQUISHED BY: DATE/TIME:	RECEIVED BY:	DATE/TIME:	2001507.114		PROJECT	INFORMATIO	NC		RECEIPT	
1. A. palkerne	· OS-14-18	06:15	PROJECT NA	ME:					Total # of Containers	
2.	2 Arman Dhemi	5/14/18	PROJECT #:						Turnaround Time (TAT) Reques	<u>st</u>
	William John Will	18/5	SITE ADDRES	SS:					Standard 5 Business Days	
3.	3. //		SEND REPOR	RT TO:					2 Business Day Rush Next Business Day Rush	
SPECIAL INSTRUCTIONS/COMMENTS:	SHIPMENT METHO	ıD.	INVOICE TO:						Same-Day Rush (auth req.)	l l
	OUT: / / VIA:		(IF DIFFEREN	IT FROM AB	OVE)				Other	
	client FedEx UPS US mail co	ourier Greyhound							STATE PROGRAM (if any): E-mail?	
	other:		QUOTE #:_			PC	O#:		DATA PACKAGE: 1 O 11 O 111 O 1V O	ļ
Submission of samples to the laboratory constitutes acceptance of AE	ES's Terms & Conditions. Samples received Samples are disposed of 30 da						ness day. If no	TAT is marked	on COC, AES will proceed with standard	d TAT.

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.

Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

3080 Presidential Drive Atlanta, GA 30340-3704

CHAIN OF CUSTODY

Work Order: 1805E59

Date: 08-14-18 Page 2 of 2

COMPANY:	ADDRESS:	Arlingt	617	Str	eet					ANA	LYSIS R	EQUEST	TED				Visit our website	
. USP	Bosto.	Arlingt Floor Bearlie Aha	9 0	211	6	S											www.aesatlanta.com for downloadable COCs and to	
PHONE: 617 - 960 - 4845	EMAIL:	Beaulie	NO	W89.	Corr	VOCS											log in to your AESAccess	tainers
SAMPLED BY: AMIS	SIGNATURE:	Aha	Ken	7/Ze	_	73											account.	Number of Containers
	SAN	1PLED:				14												lumbe
# SAMPLE ID	DATE	TIME	GRAB	COMPOSITE	MATRIX (see codes)		T	Т	Т	PRESE	RVATIO	N (see co	odes)	Т	Τ	П	REMARKS	2
1 TB-051418	NA	MA	MA		MA	X											,	
1 TB-051418 2 MW-600	05-14-18	12:00	X		GW	X												
3								*										
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
RELINQUISHED BY: DATE/TIME:	RECEIVED BY:			DATE/		PROJ	ECT NA	ME		PROJ	ECT INF	ORMATI	ON				RECEIPT	
1. A.kakenre	1. 09	5-14-18 Woh	8	0	3215												Total # of Containers	
2.	Drille	rullahi	100	9/1	4/18	PROJ	ECT #:	·c.									Turnaround Time (TAT) Reques	<u>st</u>
	Coulo	uxgoru	NOUN	18	1/5	SILLA	ADDRES										Standard 5 Business Days	
3.	3.	U				SEND	REPOR	T TO:									2 Business Day Rush Next Business Day Rush	
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT	METHOD)		W	ICE TO:										Same-Day Rush (auth req.)	
	OUT: /	/	VIA:			(IF DI	FFEREN	T FROM	M ABO	VE)							Other	
	client Fe	/ dex UPS US:	VIA: mail co	urier G	irevhound												STATE PROGRAM (if any):	
		other:	60	_	, mound	QUO	TE #:_					Р	O#:				E-mail? ☐ Fax? ☐ DATA PACKAGE: I ○ II ○ III ○ IV ○	
Submission of samples to the laboratory constitutes acceptance of A		nditions. Samples ples are disposed											ness day	. If no T	AT is m	arked o	n COC, AES will proceed with standar	d TAT.

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

Client: WSP Environmental Strategies Corp

Project: NL Atlanta Case Narrative

Date:

23-May-18

Lab ID: 1805E59

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.

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				(SV	W3010A)			
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

Date:

23-May-18

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

Client: WSP Environmental Strategies Corp Client Sample ID: MW-2

Project Name: NL Atlanta Collection Date: 5/11/2018 3:50:00 PM

Lab ID: 1805E59-002 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D				(SV	V3010A)			
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

Date:

23-May-18

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

Client: WSP Environmental Strategies Corp Client Sample ID: MW-7E

Project Name: NL Atlanta Collection Date: 5/11/2018 5:15:00 PM

Lab ID:1805E59-003Matrix:Groundwater

Analyses	Result	Reporting Limit	Qual Unit	s BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D			((SW3010A)			
Cadmium	BRL	0.0050	m	g/L 260911	1 1	05/18/2018 23:38	DG
Copper	BRL	0.0100	m	g/L 260911	1 1	05/18/2018 23:38	DG
Lead	BRL	0.0100	m	g/L 260911	1 1	05/18/2018 23:38	DG
Zinc	BRL	0.0200	m	g/L 260911	1 1	05/18/2018 23:38	DG

Date:

23-May-18

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

Client: WSP Environmental Strategies Corp Client Sample ID: MW-7D

Project Name: NL Atlanta Collection Date: 5/11/2018 6:00:00 PM

Date:

23-May-18

Lab ID: 1805E59-004 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260B			(SW	/5030B)			
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				(SW	/3010A)			
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

Client: WSP Environmental Strategies Corp Client Sample ID: MW-7

Project Name: NL Atlanta Collection Date: 5/11/2018 7:15:00 PM

Date:

23-May-18

Lab ID:1805E59-005Matrix:Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260B			(SW	/5030B)			
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				(SW	/3010A)			
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

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				(SV	V3010A)			
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

Date:

23-May-18

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

Client: WSP Environmental Strategies Corp Client Sample ID: MW-1

Project Name: NL Atlanta Collection Date: 5/12/2018 12:35:00 PM

Date:

23-May-18

Lab ID: 1805E59-007 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260B			(SW	/5030B)			
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				(SW	/3010A)			
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

Client: WSP Environmental Strategies Corp Client Sample ID: MW-12

Project Name: NL Atlanta Collection Date: 5/12/2018 2:55:00 PM

Lab ID: 1805E59-008 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D				(SV	V3010A)			
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

Date:

23-May-18

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

Client: WSP Environmental Strategies Corp Client Sample ID: MW-6

Project Name: NL Atlanta Collection Date: 5/14/2018 11:05:00 AM

Date:

23-May-18

Lab ID: 1805E59-009 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260B			(SW	/5030B)			
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				(SW	/3010A)			
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

Client: WSP Environmental Strategies Corp Client Sample ID: MW-9

Project Name: NL Atlanta Collection Date: 5/14/2018 12:10:00 PM

Date:

23-May-18

Lab ID: 1805E59-010 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260B			(SW	/5030B)			
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				(SW	/3010A)			
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

Client: WSP Environmental Strategies Corp Client Sample ID: MW-13D

Project Name: NL Atlanta Collection Date: 5/14/2018 3:30:00 PM

Date:

23-May-18

Lab ID: 1805E59-011 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260B			(SW	/5030B)			
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				(SW	/3010A)			
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

Client: WSP Environmental Strategies Corp Client Sample ID: MW-13

Project Name: NL Atlanta Collection Date: 5/14/2018 3:25:00 PM

Date:

23-May-18

Lab ID:1805E59-012Matrix:Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260B			(SW	/5030B)			
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				(SW	/3010A)			
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

Client: WSP Environmental Strategies Corp Client Sample ID: MW-14

Project Name: NL Atlanta Collection Date: 5/14/2018 4:30:00 PM

Lab ID: 1805E59-013 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D				(SV	V3010A)			
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

Date:

23-May-18

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

Client: WSP Environmental Strategies Corp Client Sample ID: MW-15

Project Name: NL Atlanta Collection Date: 5/14/2018 2:15:00 PM

Lab ID: 1805E59-014 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D				(SV	V3010A)			
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

Date:

23-May-18

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

Client: WSP Environmental Strategies Corp

Project Name: NL Atlanta **Lab ID:** 1805E59-015

Client Sample ID: Collection Date:

Matrix:

TB-051418 5/14/2018 Aqueous

Date:

23-May-18

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/	MS SW8260B			(SV	V5030B)			
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

Client: WSP Environmental Strategies Corp Client Sample ID: MW-600

Project Name: NL Atlanta Collection Date: 5/14/2018 12:00:00 PM

Date:

23-May-18

Lab ID: 1805E59-016 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/	MS SW8260B			(SW	/5030B)			
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



SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: WSP Environment & Energy				AES Work Order Number:	1805E59	
2. Carrier: FedEx ☐ UPS ☐ USPS ☐ Client ■ Courier ☐ Othel _			_			
	Yes	No	N/A	Details	Comments	
3. Shipping container/cooler received in good condition?	0			damaged leaking other		
4. Custody seals present on shipping container?	Ŏ	Õ	Ŏ			
5. Custody seals intact on shipping container?	Õ	O	O			
6. Temperature blanks present?	O	Ŏ	Ŏ			
Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for		\sim		Cooling initiated for recently collected samples / ice		
7. temperature recordings.]	0	O		present		
8. Chain of Custody (COC) present?	0	0	0			
9. Chain of Custody signed, dated, and timed when relinquished and received?	0	Ŏ	Ŏ			
0. Sampler name and/or signature on COC?	0	Ŏ	Ŏ			
1. Were all samples received within holding time?	Õ	Ŏ	Ŏ			
2. TAT marked on the COC?	Õ	Ŏ	O	If no TAT indicated, proceeded with standard TAT per Ter	ms & Conditions.	
.3. Cooler 1 Temperature 3.7 °C Cooler 2 Temperature			°C	Cooler 3 Temperature OC Cooler	4 Temperature°C	
4. Cooler 5 Temperature OC Cooler 6 Temperature			°C	Cooler 7 Temperature °C Cooler	8 Temperature°C	
.5. Comments:						
						AJJ 5/14/18
				I certify that I have com	pleted sections 1-15 (dated initials).	AJJ 5/14/18
	Yes	No	N/A	Details	Comments	
.6. Were sample containers intact upon receipt?			Ю			
7. Custody seals present on sample containers?	O	0	Ō			
.8. Custody seals intact on sample containers?	O	Ŏ	Ō			
.9. Do sample container labels match the COC?	0	0	0	incomplete info illegible no label other		
20. Are analyses requested indicated on the COC?	0	0	0			
21. Were all of the samples listed on the COC received?	0	0	0	samples received but not listed on COC samples listed on COC not received		
.2. Was the sample collection date/time noted?	0					
3. Did we receive sufficient sample volume for indicated analyses?	0	Ŏ	M			
4. Were samples received in appropriate containers?	ŏ	l δ	M			
5. Were VOA samples received without headspace (< 1/4" bubble)?	Ŏ	18	l ŏ			
6. Were trip blanks submitted?	6	18	l ŏ	listed on COC not listed on COC		
7. Comments:				instead on ede		
,,, commence.						
This section only applies to samples where pH can be				I certify that I have com	pleted sections 16-27 (dated initials).	ES 5/15/18
checked at Sample Receipt.	Yes	No	N/A	Details	Comments	
8. Have containers needing chemical preservation been checked? *	<u> </u>				Comments	
9. Containers meet preservation guidelines?	8	1 X	18			
0. Was pH adjusted at Sample Receipt?	18	$\vdash {\Join}$	8			

Checklist 6.9.17 Rev 2

I certify that I have completed sections 28-30 (dated initials).

ES 5/15/18

Client: WSP Environmental Strategies Corp

ANALYTICAL QC SUMMARY REPORT

Date:

23-May-18

Project Name: NL Atlanta **Workorder:** 1805E59

BatchID: 260841

Sample ID: MB-260841	Client ID:				Uni			p Date:	05/17/2018	Run No: 370509		
SampleType: MBLK	TestCode:	Volatile Organic Compo	unds by GC/MS	SW8260B	Bat	chID: 260841	Ana	alysis Date:	05/17/2018	Seq No: 8215801		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Re	ef Val %RPI	RPD Limit Qua		
Benzene	BRL	5.0										
thylbenzene	BRL	5.0										
ı,p-Xylene	BRL	5.0										
Iethyl tert-butyl ether	BRL	5.0										
aphthalene	BRL	5.0										
Xylene	BRL	5.0										
oluene	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:				Uni	its: ug/L	Pre	p Date:	05/17/2018	Run No: 370509		
SampleType: LCS	TestCode:	Volatile Organic Compo	unds by GC/MS	SW8260B	Bat	chID: 260841	Ana	alysis Date:	05/17/2018	Seq No: 8215800		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Re	f Val %RPI	O RPD Limit Qua		
enzene	45.51	5.0	50.00		91.0	73.7	126					
oluene	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 Sample Type: MS	Client ID: TestCode:	Volatile Organic Compo	unds by GC/MS	SW8260B	Uni Bat	its: ug/L chID: 260841		p Date: alysis Date:	05/17/2018 05/17/2018	Run No: 370509 Seq No: 8215803		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Re	f Val %RPI	O RPD Limit Qua		
enzene	48.12	5.0	50.00		96.2	66.1	137					
oluene	50.91	5.0	50.00		102	63.8	141					
Surr: 4-Bromofluorobenzene	47.07	0	50.00		94.1	68	127					
ualifiers: > Greater than Result va	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 dete	g Limit	N Analyte not NELAC certified					RPD outside lin	nits due to matrix				
Rpt Lim Reporting Limit			S Spike	Recovery outside limits	due to matrix							

Client: WSP Environmental Strategies Corp

ANALYTICAL QC SUMMARY REPORT

Date:

23-May-18

Project Name: NL Atlanta **Workorder:** 1805E59

BatchID: 260841

Sample ID: 1805E61-001AMS	Client ID:				Uni	ts: ug/L	Prep	Date: 05/1	7/2018	Run No: 370509	
SampleType: MS	TestCode:	Volatile Organic Compou	inds by GC/MS	SW8260B	Bat	chID: 260841	Ana	lysis Date: 05/1	Seq No: 8215803	3	
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:				o .			Prep Date: 05/17/2018 Run No: 370509			
SampleType: MSD	TestCode: Volatile Organic Compounds by GC/MS SW8260B			Analysis Date: 05/17/2018 Seq No:				4			
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

BRL Below reporting limit

Rpt Lim Reporting Limit

J Estimated value detected below Reporting Limit

< Less 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

ANALYTICAL QC SUMMARY REPORT

Date:

23-May-18

Project Name: NL Atlanta
Workorder: 1805E59

BatchID: 260911

Sample ID: MB-260911	Client ID:				Uni	its: mg/L	Pre	ep Date:	05/17/2018	Run No: 370720
SampleType: MBLK	TestCode:	METALS, TOTAL S	W6010D		Bat	chID: 260911	Ar	nalysis 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 Qua
Cadmium	BRL	0.0050								
Copper	BRL	0.0100								
Lead	BRL	0.0100								
Zinc	BRL	0.0200								
Sample ID: LCS-260911	Client ID:				Uni	its: mg/L	Pro	ep Date:	05/17/2018	Run No: 370720
SampleType: LCS	TestCode:	METALS, TOTAL S	W6010D		Bat	chID: 260911	Ar	nalysis 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 Qua
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 SampleType: MS TestCode: METALS, TOTAL SW6010D				e			Prep Date: 05/17/2018 Run No: 370720 Analysis Date: 05/18/2018 Seq No: 8220181			
SampleType: MS	restCode:	METALS, TOTAL S	W6010D		ват	chID: 260911	Ar	ialysis 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 Qua
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:				Uni	O	Pr	ep Date:	05/17/2018	Run No: 370720
SampleType: MSD	TestCode:	METALS, TOTAL S	W6010D		Bat	chID: 260911	Ar	nalysis 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 Qua
Cadmium	1.022	0.0050	1.000	0.02345	99.9	75	125	1.060	3.62	20
Qualifiers: > Greater than Result valu	ie		< Less	than Result value			В	Analyte detected i	in the associated method	blank
BRL Below reporting limit	BRL Below reporting limit E Estimated (value above quantita						Н	Holding times for	preparation or analysis	exceeded
J Estimated value detected below Reporting Limit N Analyte not NELAC certific				te not NELAC certified			R	RPD outside limi	ts due to matrix	
Rpt Lim Reporting Limit	Rpt Lim Reporting Limit S Spike Recovery outside limits of									

Client: WSP Environmental Strategies Corp

ANALYTICAL QC SUMMARY REPORT

Project Name: NL Atlanta **Workorder:** 1805E59

BatchID: 260911

Date:

23-May-18

Sample ID: 1805E59-002AMSD SampleType: MSD	Client ID: MW-2 TestCode: METALS, TOTAL SW6010D					ts: mg/L chID: 260911		Prep Date: 05/17/2018 Analysis Date: 05/18/2018		Run No: 370720 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

BRL Below reporting limit

J Estimated value detected below Reporting Limit

Rpt Lim Reporting Limit

< Less 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