MAGUIRE GROUP INC.
ARCHITECTS / ENGINEERS / PLANNERS

2080 Silas Deane Highway
Rocky Hill, CT 06067
Phone: 860-224-9141
Fax: 860-563-3185

July 19, 2012

Mr. Gregory M. Dorosh, P.E.
Transportation Principal Engineer
Connecticut Department of Transportation
Bureau of Engineering & Construction
Division of Design Services
Environmental Compliance Section
P. O. Box 317546
Newington, CT 06131-7546

Attention: Mr. Christopher Bonsignore

Re: Task Based Environmental Services
Task 910 – Environmental Investigation Summary Report
Assignment No. 204-4455
State Project No. 301-0149
Stamford Transportation Center Pedestrian Bridge Over Washington Boulevard
Stamford, CT

Dear Mr. Dorosh:

As requested by the Connecticut Department of Transportation (ConnDOT), Maguire Group Inc. (Maguire) has conducted an environmental investigation in the area of proposed for construction of the Stamford Transportation Center Pedestrian Bridge over Washington Boulevard in Stamford, Connecticut, State Project No. 301-0149.

ENVIRONMENTAL INVESTIGATION SUMMARY REPORT

Site Description

The pedestrian bridge is proposed to be constructed over Washington Boulevard to the east of the Stamford Station and south of the railroad right-of-way (See attached Figure 1 – Location Plan), herein referred to as the "Site". The east bridge abutment will be located adjacent to the employee parking area for the adjacent Stamford Railroad Station. The west abutment location is currently occupied by the power line tower, which is to be removed.

Purpose and Objective

The purpose of this environmental investigation was to verify the absence or presence and location of subsurface contamination, and to assess the potential pollutant impacts to be encountered during construction associated with the pedestrian bridge. It is anticipated that Specifications will subsequently be prepared to assess construction related activities (i.e. proper storage, classification, transport and disposal of contaminated materials), in relationship to the environmental conditions prevalent within

the project limits, as well as to specify remedial work to be included in the Contract Bid Documents.

Water Quality

According to the Connecticut Department of Energy and Environmental Protection's (CTDEEP's) "Adopted Water Quality Classification for the South Central Regional Basin", the groundwater classification for the Site is "GB". The "GB" groundwater classification indicates that the groundwater is within an urbanized area of intense industrial activity where a public water supply source is available. The groundwater may not be suitable for human consumption due to waste discharges, spills or leaks of chemicals, or land use impacts. The properties adjacent to the Site are reportedly connected to the public water supply and municipal sewer systems.

The Site is located within the South Central Regional Basin. The nearest surface water body, is the Rippowam River which is approximately 500-feet west of the project site and is classified as a Class "SB" surface water body by the CTDEEP. The Class "SB" surface water classification indicates these waters are designated for habitat for marine fish, other aquatic life and wildlife; commercial shellfish harvesting; recreation; industrial water supply; and navigation. The Rippowam River eventually discharges to the Stamford Harbor located to the west-southwest of the Site.

Geology

The CTDEEP's "Surficial Materials Map of Connecticut" indicates that the surficial material on the Site is classified as "Fill" and "Sand". The "Fill" consists of silt, sand and gravel containing slag, coal and cinders varying in thickness. The "Sand" consists of fine to coarse sand with little silt and fine to coarse gravel and some rock fragments and is beneath the fill material. The Bedrock Geological Map of Connecticut, compiled by John Rodgers in 1985, indicates that the bedrock unit underlying the Site is classified as Pumpkin Ground Member of the Harrison Gneiss, a gray to spotted, medium- to coarse-grained foliated gneiss. Bedrock ranges from approximately 5 feet below ground surface to 19 feet bgs in the area of the Site.

Environmental Investigation

Soil Sampling

Two (2) direct push borings, GP-1 and GP-2, were advanced in the construction area for the pedestrian bridge abutments as shown on the attached Figure 2 - Site Plan. One (1) soil sample was collected from each boring location and an additional deeper soil sample was collected from boring GP-2.

The soil samples were visually inspected in the field for staining, and were described as to physical characteristics and soil type. Soil boring logs were generated in the field by the on-site qualified technician. In addition, the soil samples were screened in the field for total volatile organic compounds utilizing a Photovac photoionization detector (PID). All soil samples were placed in laboratory supplied glassware, stored in an ice-filled cooler and submitted to Phoenix Environmental Laboratories, Inc. under chain-of-custody procedures. The soil samples were analyzed for volatile organic compounds (VOCs) utilizing EPA Method 8260, semi-volatile organic compounds (SVOCs) utilizing EPA Method 8270, extractable total petroleum hydrocarbons (ETPH) utilizing the Connecticut ETPH

method, pesticides and polychlorinated biphenyls (PCBs) utilizing EPA Method 8081A and 8082 and total and SPLP RCRA 8 metals.

Groundwater Sampling

Groundwater was not encountered in either of the borings. Therefore a groundwater sample was not collected as part of this environmental investigation.

Quality Assurance/Quality Control

The CTDEEP's Quality Assurance and Quality Control (QA/QC) Guidance were used to ensure that the analytical results generated during the screening is of known and appropriate quality. Specifically, the Laboratory Quality Assurance Control Reasonable Confidence Protocols (RCPs) were utilized for all laboratory analytical methods. The Laboratory Quality Assurance and Quality Control, Data Quality Assessment and Data Usability Evaluation (DQA/DUE) Guidance were utilized to ensure that the analytical data used is of known and sufficient level of quality for the intended purpose.

To assess the collection of samples in the field in terms of the sampling techniques and decontamination procedures field blank and trip blank samples accompanied the samples to the laboratory. The field blank was analyzed for the same parameters as the samples and the trip blank was analyzed for VOCs by EPA Method 8260.

All sampling equipment was either dedicated to a specific sample or was decontaminated prior to and between each use. Sampling equipment was not placed near solvents, gasoline, or other materials that would impact the integrity of the samples.

Regulatory Criteria

The CTDEEP adopted Remediation Standard Regulations (Regulations of Connecticut State Agencies, Section 22a-133k-1 to 3 and 22a-133q-1) as of January 31, 1996. The Remediation Standard Regulations (RSRs) apply to any site undergoing voluntary remediation under Public Acts 95-183 or 95-190, a transfer of an "establishment" under Public Act 95-183, or any site as ordered by the CTDEEP Commissioner. The Regulations also outline the processes for establishing alternative site-specific numerical standards for certain sites, upon approval by the CTDEEP. The RSRs criteria applicable to the soil sampled during this environmental investigation are summarized below.

Soils Criteria: The RSRs are organized into two sets of criteria: the Direct Exposure Criteria (DEC) and the Pollutant Mobility Criteria (PMC). The DEC and PMC are briefly explained in the following sub-sections, in relation to how they would be applicable to the types of analyses conducted on the soil samples collected for this investigation. Please refer to the RSRs for a complete explanation of the Regulations.

Direct Exposure Criteria

The purpose of the Direct Exposure Criteria (DEC) is to protect human health from risks associated with the direct contact with or ingestion of various common soil contaminants. The DEC are applicable to soil within approximately fifteen (15) feet of the ground surface. Concentrations of contaminants are evaluated based upon mass-based analyses and different criteria are established for residential and industrial/commercial properties. The use of the less stringent commercial/industrial standards requires the placement of an environmental land use restriction on the property.

The DEC is not applicable to inaccessible soils, including soil more than four (4) feet below the ground surface, two (2) feet below pavement greater than three (3) inches thick, or below an existing building, provided that an Environmental Land Use Restriction (ELUR) is placed in effect for the property.

Pollutant Mobility Criteria

The purpose of the Pollutant Mobility Criteria (PMC) is to evaluate the potential for contaminants to leach from the soil in concentrations that may degrade groundwater quality. Different numerical criteria are established for GA and GAA groundwater areas, versus GB groundwater areas. Since the site is situated in a GB groundwater area, the less stringent criteria apply for the site.

SUMMARY OF RESULTS

Soil Samples

The results of the soil samples analyzed as part of this environmental investigation are summarized below and in the attached Table 1. A copy of the complete laboratory data package is included as Appendix A of this summary letter.

The results of the laboratory analysis indicated the presence of extractable total petroleum hydrocarbons (ETPH) in soil sample GP-1 (1-3') at a concentration of 86.8 mg/kg which is below the applicable CTDEEP RSR criteria. ETPH was not detected above analytical detection limits (ND<0.4 mg/kg) in the soil samples collected from boring GP-2.

Volatile organic compounds (VOCs), pesticides and polychlorinated biphenyls (PCBs) were not detected above analytical detection limits in the any of the soil samples collected as part of this environmental investigation.

Semi-volatile organic compounds (SVOCs), specifically polynuclear aromatic hydrocarbons (PAHs) were detected in soil sample GP-1 (1-3'). Benzo(a)anthracene (1.6 mg/kg), benzo(a)pyrene (1.2 mg/kg), benzo(b)fluoranthene (2.2 mg/kg), and chrysene (1.4 mg/kg) were detected in soil sample GP-1 (1-3') at concentrations exceeding the GB PMC of 1.0 mg/kg for each compound. The concentrations of benzo(a)anthracene, benzo(a)pyrene, and benzo(b)fluoranthene also exceed the RDEC of 1.0 mg/kg for each compound. In addition, the concentration of benzo(a)pyrene exceeds the I/C-DEC of 1.0 mg/kg. No other detected PAHs were present in soil sample GP-1 (1-3') at concentrations exceeding the applicable CTDEEP RSR criteria.

SVOCs were not detected above analytical detection limits in the soil samples collected form boring GP-2.

Total arsenic, barium, chromium, lead, and mercury were detected in the soil samples collected as part of this environmental investigation, but at concentrations below the applicable CTDEEP RSR criteria. No other total metals were detected in the soil samples at concentrations exceeding the applicable CTDEEP RSR criteria.

Leachable barium was detected in the soil samples collected as part of this environmental investigation, but at concentrations below the applicable CTDEEP RSR criteria. No other leachable metals were detected in the soil samples at concentrations exceeding the applicable CTDEEP RSR criteria.

QA/QC Samples and Analysis

The trip blank, TB-1 did not contain VOCs at concentrations above analytical detection limits (ND). ETPH was detected in the field blank, FB-1, at a concentration of 0.12 mg/L. Its presence is the field blank is likely to due to field or laboratory contamination. No other contaminants of concern were detected in the field blank sample. A summary of the laboratory results from the QA/QC samples are presented in Table 2, which is located at the end of this letter report, and copies of the analytical results associated with the quality assurance/quality control sample is included in Appendix A.

A data quality assessment and data usability evaluation was performed for the data generated in accordance the CTDEEP's "Laboratory Quality Assurance and Quality Control, Data Quality Assessment (DQA) and Data Usability Evaluation (DUE) Guidance Document". Based on the DQA and DUE assessment, the data is of adequate and sufficient accuracy, precision, and sensitivity to confirm that contaminants of concern are present in the soil at concentrations exceeding the CTDEEP RSRs.

AREAS OF ENVIRONMENTAL CONCERN

Based on the results of the environmental investigation conducted, one (1) area of environmental concern exists within the project limits and is discussed below.

AOEC #1 – GP-1 (West Abutment)

The results of the environmental investigation indicated the presence of PAHs in soils at GP-1 at concentrations exceeding the applicable CTDEEP RSR criteria. In addition, low concentrations of ETPH were detected in the soil. The contaminants were detected in soils at depths of one (1) to three (3) feet below ground surface.

RECOMMENDATIONS

The results of the environmental investigation for the Stamford Transportation Center Pedestrian Bridge over Washington Boulevard in Stamford, Connecticut, State Project No. 301-0149 indicate the presence of PAHs at elevated concentrations in soil at boring GP-1 (West Abutment) ranging from 1 to 3 feet below grade. Low concentrations of ETPH were also detected in the soil sample at boring GP-1. One (1) Area of Environmental Concern (AOEC) for soil has been identified within the project limits. Special considerations for handling, treatment/disposal of soil and worker health & safety must be given to this area in order to ensure compliance with all local, State and Federal laws. Appropriate Specifications are therefore, recommended for the area of construction within the AOEC as described above.

If you have any questions with regard to this letter summary, please contact us at your earliest convenience.

Sincerely,
MAGUIRE GROUP INC.

David R. Stock, P.E.
Vice President

Jane Witherell, P.E., L.E.P., C.H.M.M.
Principal Engineer

FIGURES

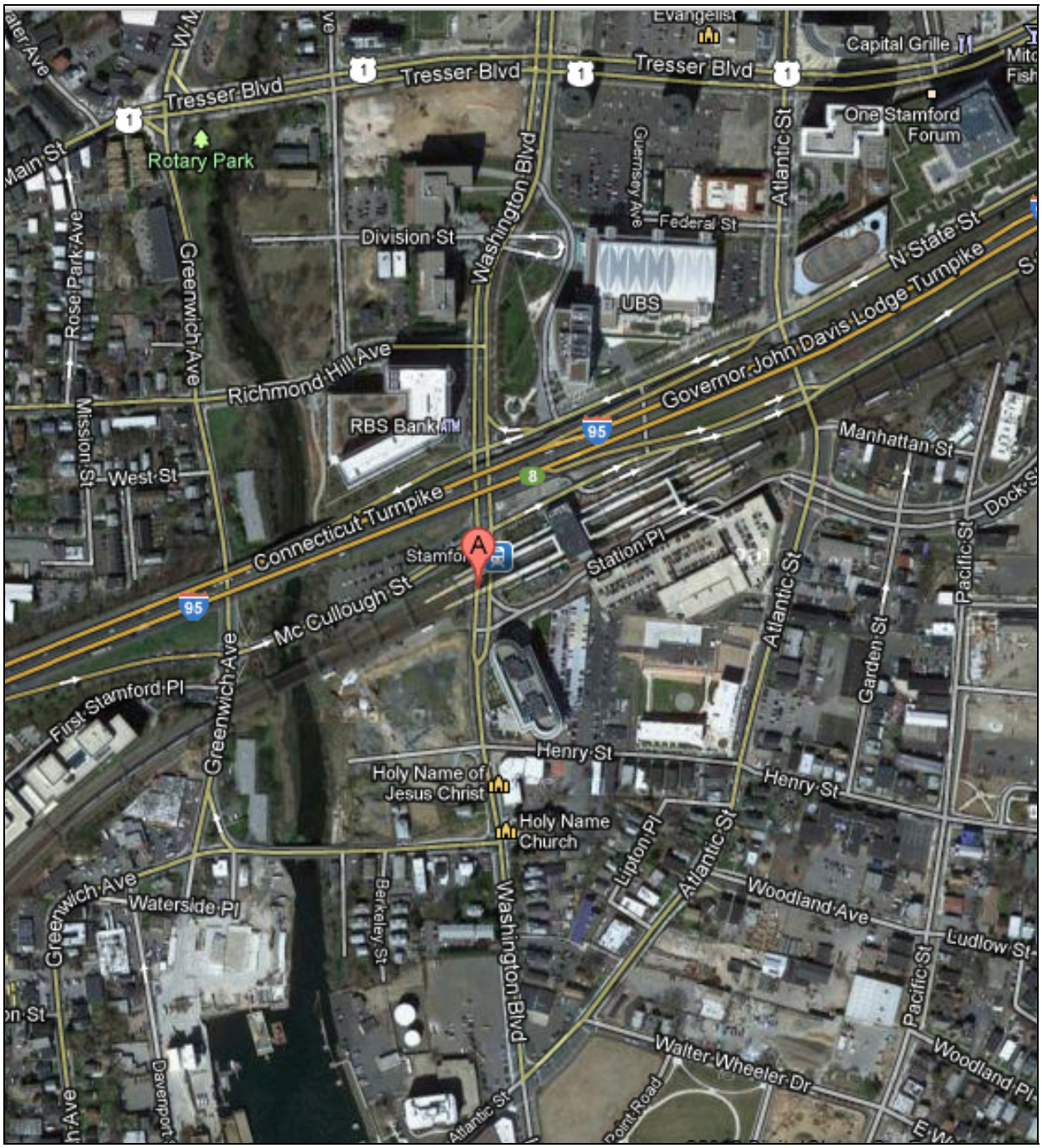
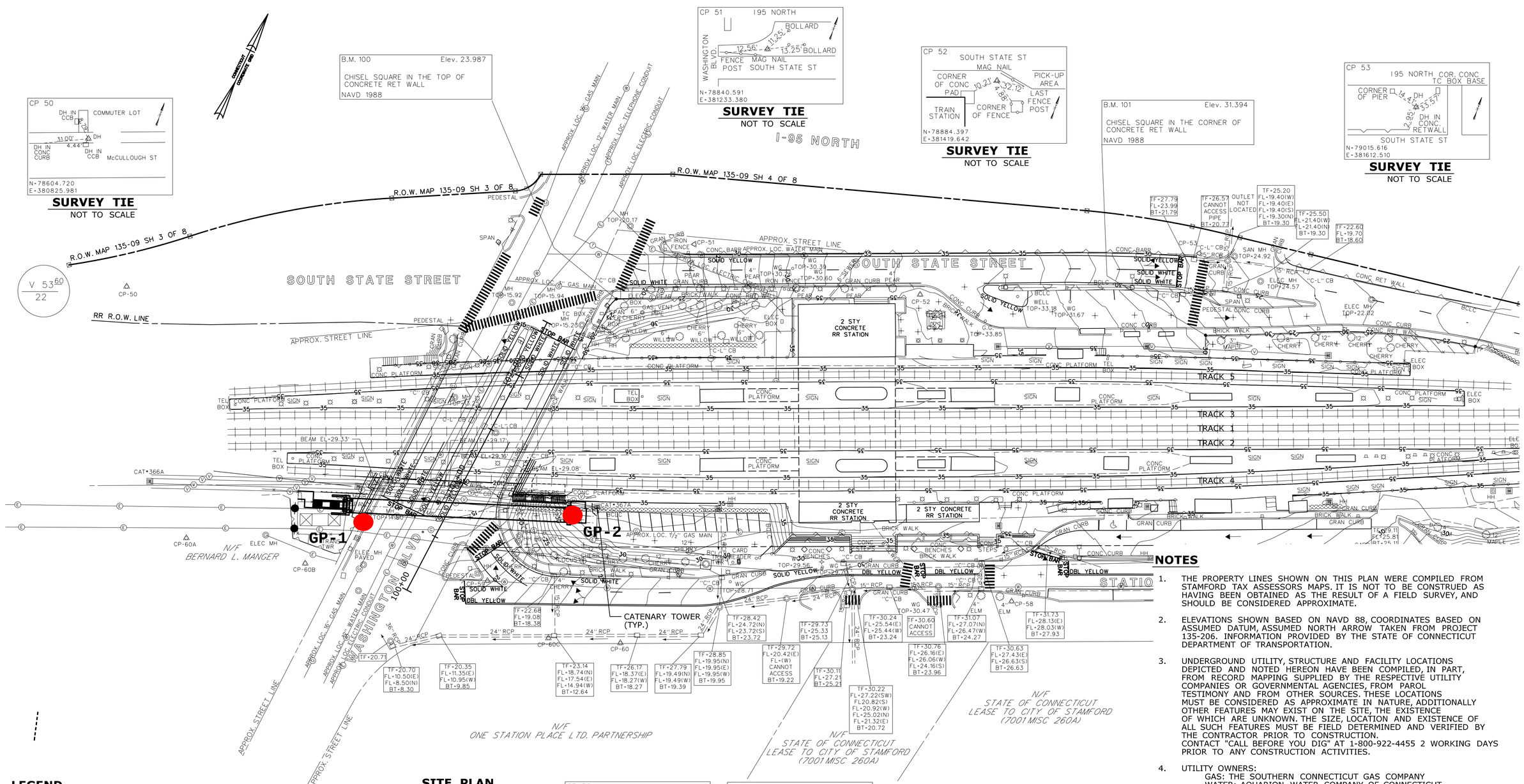


FIGURE 1 – LOCATION PLAN
STAMFORD TRANSPORTATION CENTER
PEDESTRIAN BRIDGE OVER WASHINGTON BOULEVARD
STAMFORD, CONNECTICUT



SITE PLAN

SCALE: 1" = 40'

LEGEND

- PROPERTY LINE
- MINOR CONTOUR
- CHAIN-LINK FENCE
- GAS MAIN
- WATER MAIN
- SEWER MAIN
- TRAFFIC MANHOLE
- ELECTRIC MANHOLE
- BOTTOM OF LOWEST PARAPET
- SPOT ELEVATION
- ELEVATION OF RIVET

NOTES

1. THE PROPERTY LINES SHOWN ON THIS PLAN WERE COMPILED FROM STAMFORD TAX ASSESSORS MAPS. IT IS NOT TO BE CONSTRUED AS HAVING BEEN OBTAINED AS THE RESULT OF A FIELD SURVEY, AND SHOULD BE CONSIDERED APPROXIMATE.
2. ELEVATIONS SHOWN BASED ON NAVD 88, COORDINATES BASED ON ASSUMED DATUM, ASSUMED NORTH ARROW TAKEN FROM PROJECT 135-206. INFORMATION PROVIDED BY THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION.
3. UNDERGROUND UTILITY, STRUCTURE AND FACILITY LOCATIONS DEPICTED AND NOTED HEREON HAVE BEEN COMPILED, IN PART, FROM RECORD MAPPING SUPPLIED BY THE RESPECTIVE UTILITY COMPANIES OR GOVERNMENTAL AGENCIES, FROM PAROL TESTIMONY AND FROM OTHER SOURCES. THESE LOCATIONS MUST BE CONSIDERED AS APPROXIMATE IN NATURE, ADDITIONALLY OTHER FEATURES MAY EXIST ON THE SITE, THE EXISTENCE OF WHICH ARE UNKNOWN. THE SIZE, LOCATION AND EXISTENCE OF ALL SUCH FEATURES MUST BE FIELD DETERMINED AND VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTACT "CALL BEFORE YOU DIG" AT 1-800-922-4455 2 WORKING DAYS PRIOR TO ANY CONSTRUCTION ACTIVITIES.
4. UTILITY OWNERS:
   GAS: THE SOUTHERN CONNECTICUT GAS COMPANY
   WATER: AQUARION WATER COMPANY OF CONNECTICUT
   ELECTRIC: UNITED ILLUMINATING COMPANY
   SANITARY: THE CITY OF BRIDGEPORT
   TELEPHONE: THE SOUTHERN NEW ENGLAND TELEPHONE COMPANY
5. TOPOGRAPHIC SURVEY WAS PERFORMED IN DECEMBER, 2011 BY CONNDOT DISTRICT 4.
6. AERIAL UTILITY LINES ARE PRESENT IN THE VICINITY OF THE PROJECT.

MAGUIRE GROUP INC. **JUNE 29, 2012**
ENVIRONMENTAL INVESTIGATION
FIGURE 2 - PROJECT AREA & SAMPLING LOCATION PLAN

PRELIMINARY DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 6/21/2012

DESIGNER/DRAFTER: JJW/SMG
CHECKED BY: J. WILSON
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\SB_MSH_0301_0149_SITE.dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY: DATE:
SB_MSH_0301_0149_SITE.dgn

PROJECT TITLE: STAMFORD TRANSPORTATION CENTER PEDESTRIAN BRIDGE OVER WASHINGTON BOULEVARD

TOWN: STAMFORD

DRAWING TITLE: SITE PLAN

PROJECT NO. 301-0149
DRAWING NO. S-1
SHEET NO. 4

TABLES

TABLE 1
STAMFORD PEDESTRIAN RAILROAD BRIDGE
STAMFORD, CONNECTICUT
CONNDOT PROJECT NO. 301-0149
TASK 910 - ENVIRONMENTAL INVESTIGATION

SAMPLE ID **SAMPLE DEPTH** **SAMPLE DATE**	**GP-1** **1-3'** **7/9/2012**	**GP-2** **2-4'** **7/9/2012**	**GP-2** **8-10'** **7/9/2012**	**CTDEEP Applicable RSR Criteria (GB GW Area)**	
SAMPLE LOCATION	**West Bridge Abutment**	**East Bridge Abutment**	**East Bridge Abutment**	**RDEC & I/C-DEC**	**GB PMC**
PARAMETERS					
Total RCRA Metals (mg/kg)					
Arsenic	3.1	4.9	3.3	10/10	N/A
Barium	69.1	118	110	4700/140000	N/A
Cadmium	ND<0.34	ND<0.38	ND<0.42	34/1000	N/A
Chromium	17.8	30.1	23.7	3900/51000	N/A
Lead	41.5	73.1	42.6	500/1000	N/A
Mercury	0.1	ND<0.1	ND<0.09	20/610	N/A
Selenium	ND<1.4	ND<1.5	ND<1.7	340/10000	N/A
Silver	ND<0.34	ND<0.38	ND<0.42	340/10000	N/A
SPLP RCRA 8 Metals (mg/L)					
Arsenic	ND<0.004	ND<0.004	ND<0.004	N/A	0.5
Barium	0.013	0.013	0.015	N/A	10
Cadmium	ND<0.005	ND<0.005	ND<0.005	N/A	0.05
Chromium	ND<0.01	ND<0.01	ND<0.01	N/A	0.5
Lead	ND<0.01	ND<0.01	ND<0.01	N/A	0.15
Mercury	ND<0.0004	ND<0.0004	ND<0.0004	N/A	0.02
Selenium	ND<0.02	ND<0.02	ND<0.02	N/A	0.5
Silver	ND<0.01	ND<0.01	ND<0.01	N/A	0.36
VOCs 8260 (mg/kg)					
All Parameters	ND<0.003-0.99	ND<0.0039-0.13	ND<0.0039-0.13	Varies	Varies
SVOCs 8270C (mg/kg)					
Anthracene	0.26	ND<0.29	ND<0.28	1000/2500	400
Benzo(a)anthracene	***1.6***	ND<0.29	ND<0.28	**1**/7.8	**1**
Benzo(a)pyrene	***1.2***	ND<0.29	ND<0.28	**1/1**	**1**
Benzo(b)fluoranthene	***2.2***	ND<0.29	ND<0.28	**1/**7.8	**1**
Benzo(ghi)perylene	0.45	ND<0.29	ND<0.28	1000/2500	42
Benzo(k)fluoranthene	0.47	ND<0.29	ND<0.28	8.4/78	1
Chrysene	***1.4***	ND<0.29	ND<0.28	84/780	**1**
Fluoranthene	3.8	ND<0.29	ND<0.28	1000/2500	56
Indeno(1,2,3-cd)pyrene	0.44	ND<0.29	ND<0.28	1/7.8	1
Phenanthrene	1.2	ND<0.29	ND<0.28	1000/2500	40
Pyrene	3.3	ND<0.29	ND<0.28	1000/2500	40
Pesticides 8081A (mg/kg)					
All Parameters	ND<0.003-0.099	ND<0.006-0.19	ND<0.0061-0.19	Varies	Varies
PCBs 8082 (mg/kg)					
All Parameters	ND<0.35	ND<0.4	ND<0.4	1/10	0.005
CT ETPH (mg/kg)					
Extractable Petroleum Hydrocarbon	86.8 *	ND<12	ND<12	500/2500	2500

Notes:
* - ETPH calculated as "Unidentified"
ND - Not Detected

BORING LOGS

GEOPROBE SOIL BORING LOG

Project: Ped. Bridge over Washington Blvd.
Boring: GP-1
Location: Stamford, CT
Inspector: M. Bazzano
Client: Maguire Group Inc.
Date: 7-9-12

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes

Depth (feet)	Symbol	Description	Depth (feet)	PID (ppm)	Sample Interval
		Ground Surface	0.0		
0.0		ASPHALT - 4"			
1.0		Olive-Brown fine to medium SAND, trace Silt, Brick, Concrete (FILL)	2.0	2.2	Macro Core 0'-3'
2.0		Olive-Brown SILT, little Cobble, trace fine to medium Sand	3.0		
3.0					
4.0					
5.0					
6.0					
7.0		Refusal at 3' on Granitic Gneiss			
8.0					
9.0					
10.0					
11.0					
12.0					
13.0					
14.0					
15.0					

Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry
Depth to Water: Dry
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 3'
Page: 1 of 1

GEOPROBE SOIL BORING LOG

Project: Ped. Bridge over Washington Blvd.
Boring: GP-2
Location: Stamford, CT
Inspector: M. Bazzano
Client: Maguire Group Inc.
Date: 7-9-12

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes

Depth (feet)	Symbol	Description	Depth (feet)	PID (ppm)	Sample Interval
0.0		Ground Surface	0.0		
		Light-Brown fine to medium SAND, little Silt, trace fine Gravel	0.6		
1.0		ASPHALT	1.3		
		Olive-Brown fine to medium SAND, trace Silt, Asphalt, Brick, Concrete (FILL)	2.0		
2.0				1.2	Macro Core 0'-4'
3.0					
4.0					
5.0					
6.0				0.6	Macro Core 4'-8'
7.0					
8.0		Brown fine SAND & SILT, trace fine Gravel & Cobble			
9.0					
10.0				1.0	Macro Core 8'-12'
11.0					
12.0					
13.0				0.4	Macro Core 12'-14'
14.0			14.0		
15.0		Refusal at 14' on Granitic Gneiss			

Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry
Depth to Water: Dry
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 14'
Page: 1 of 1

APPENDIX A
Laboratory Data

PHOENIX
Environmental Laboratories, Inc.

Monday, July 16, 2012

Attn: Ms. Jane Witherell
Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Project ID: STAMFORD PEDESTRIAN RAILROAD BRIDGE
Sample ID#s: BC08188 - BC08191, BC08205

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. All soils and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone (860) 645-1102 Fax (860) 645-0823

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 16, 2012

FOR: Attn: Ms. Jane Witherell
Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CY	07/09/12	11:15
Location Code:	MAGU-DAS	Received by:	LB	07/10/12	14:50
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBC08188
Phoenix ID: BC08188

Project ID: STAMFORD PEDESTRIAN RAILROAD BRIDGE
Client ID: GP-1 1-3 FT

Parameter	Result	RL	Units	Date/Time	By	Reference
Silver	< 0.34	0.34	mg/Kg	07/11/12	LK	SW6010
Arsenic	3.1	0.7	mg/Kg	07/11/12	LK	SW6010
Barium	69.1	0.34	mg/Kg	07/11/12	LK	SW6010
Cadmium	< 0.34	0.34	mg/Kg	07/11/12	LK	SW6010
Chromium	17.8	0.34	mg/Kg	07/11/12	LK	SW6010
Mercury	0.10	0.06	mg/Kg	07/11/12	RS	SW-7471
Lead	41.5	0.34	mg/Kg	07/11/12	LK	SW6010
Selenium	< 1.4	1.4	mg/Kg	07/11/12	LK	SW6010
SPLP Silver	< 0.010	0.010	mg/L	07/12/12	EK	SW6010
SPLP Arsenic	< 0.004	0.004	mg/L	07/12/12	EK	SW6010
SPLP Barium	0.013	0.010	mg/L	07/12/12	EK	SW6010
SPLP Cadmium	< 0.005	0.005	mg/L	07/12/12	EK	SW6010
SPLP Chromium	< 0.010	0.010	mg/L	07/12/12	EK	SW6010
SPLP Mercury	< 0.0004	0.0004	mg/L	07/11/12	RS	1312/SW7470
SPLP Lead	< 0.010	0.010	mg/L	07/12/12	EK	SW6010
SPLP Selenium	< 0.020	0.020	mg/L	07/12/12	EK	SW6010
SPLP Metals Digestion	Completed			07/11/12	X/X	SW846-3005
Percent Solid	92		%	07/10/12	JL	E160.3
Soil Extraction for PCB	Completed			07/10/12	RB/F	SW3545
Soil Extraction for Pesticide	Completed			07/10/12	RB	SW3545
Soil Extraction for SVOA	Completed			07/10/12	RJ/F	SW3545
Extraction of CT ETPH	Completed			07/10/12	RS/F	3545
Mercury Digestion	Completed			07/11/12	X/X	SW7471
SPLP Digestion Mercury	Completed			07/11/12	X/X	E1312/SW7470
SPLP Extraction for Metals	Completed			07/10/12	X	EPA 1312
Total Metals Digest	Completed			07/10/12	N/AG	SW846 - 3050
Field Extraction	Completed			07/09/12	CY	SW5035

Project ID: STAMFORD PEDESTRIAN RAILROAD BRIDGE
Client ID: GP-1 1-3 FT

Phoenix I.D.: BC08188

Parameter	Result	RL	Units	Date/Time	By	Reference
TPH by GC (Extractable Products)						
Ext. Petroleum HC	330	21	mg/Kg	07/13/12	JRB	CT ETPH/8015
Identification	**		mg/Kg	07/13/12	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	104		%	07/13/12	JRB	50 - 150 %
Polychlorinated Biphenyls						
PCB-1016	ND	350	ug/Kg	07/11/12	AW	SW 8082
PCB-1221	ND	350	ug/Kg	07/11/12	AW	SW 8082
PCB-1232	ND	350	ug/Kg	07/11/12	AW	SW 8082
PCB-1242	ND	350	ug/Kg	07/11/12	AW	SW 8082
PCB-1248	ND	350	ug/Kg	07/11/12	AW	SW 8082
PCB-1254	ND	350	ug/Kg	07/11/12	AW	SW 8082
PCB-1260	ND	350	ug/Kg	07/11/12	AW	SW 8082
PCB-1262	ND	350	ug/Kg	07/11/12	AW	SW 8082
PCB-1268	ND	350	ug/Kg	07/11/12	AW	SW 8082
QA/QC Surrogates						
% DCBP	82		%	07/11/12	AW	30 - 150 %
% TCMX	91		%	07/11/12	AW	30 - 150 %
Pesticides						
4,4' -DDD	ND	34	ug/Kg	07/13/12	MH	SW8081
4,4' -DDE	ND	34	ug/Kg	07/13/12	MH	SW8081
4,4' -DDT	ND	34	ug/Kg	07/13/12	MH	SW8081
a-BHC	ND	17	ug/Kg	07/13/12	MH	SW8081
Alachlor	ND	17	ug/Kg	07/13/12	MH	SW8081
Aldrin	ND	5.3	ug/Kg	07/13/12	MH	SW8081
b-BHC	ND	17	ug/Kg	07/13/12	MH	SW8081
Chlordane	ND	53	ug/Kg	07/13/12	MH	SW8081
d-BHC	ND	17	ug/Kg	07/13/12	MH	SW8081
Dieldrin	ND	5.3	ug/Kg	07/13/12	MH	SW8081
Endosulfan I	ND	17	ug/Kg	07/13/12	MH	SW8081
Endosulfan II	ND	34	ug/Kg	07/13/12	MH	SW8081
Endosulfan sulfate	ND	34	ug/Kg	07/13/12	MH	SW8081
Endrin	ND	34	ug/Kg	07/13/12	MH	SW8081
Endrin aldehyde	ND	34	ug/Kg	07/13/12	MH	SW8081
Endrin ketone	ND	34	ug/Kg	07/13/12	MH	SW8081
g-BHC	ND	5.3	ug/Kg	07/13/12	MH	SW8081
Heptachlor	ND	10	ug/Kg	07/13/12	MH	SW8081
Heptachlor epoxide	ND	17	ug/Kg	07/13/12	MH	SW8081
Methoxychlor	ND	170	ug/Kg	07/13/12	MH	SW8081
Toxaphene	ND	170	ug/Kg	07/13/12	MH	SW8081
QA/QC Surrogates						
% DCBP	80		%	07/13/12	MH	30 - 150 %
% TCMX	86		%	07/13/12	MH	30 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	4.9	ug/Kg	07/12/12	R/J	SW8260
1,1,1-Trichloroethane	ND	4.9	ug/Kg	07/12/12	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	07/12/12	R/J	SW8260

Project ID: STAMFORD PEDESTRIAN RAILROAD BRIDGE
Client ID: GP-1 1-3 FT

Phoenix I.D.: BC08188

Parameter	Result	RL	Units	Date/Time	By	Reference
1,1,2-Trichloroethane	ND	4.9	ug/Kg	07/12/12	R/J	SW8260
1,1-Dichloroethane	ND	4.9	ug/Kg	07/12/12	R/J	SW8260
1,1-Dichloroethene	ND	4.9	ug/Kg	07/12/12	R/J	SW8260
1,1-Dichloropropene	ND	4.9	ug/Kg	07/12/12	R/J	SW8260
1,2,3-Trichlorobenzene	ND	4.9	ug/Kg	07/12/12	R/J	SW8260
1,2,3-Trichloropropane	ND	4.9	ug/Kg	07/12/12	R/J	SW8260
1,2,4-Trichlorobenzene	ND	4.9	ug/Kg	07/12/12	R/J	SW8260
1,2,4-Trimethylbenzene	ND	4.9	ug/Kg	07/12/12	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	4.9	ug/Kg	07/12/12	R/J	SW8260
1,2-Dibromoethane	ND	4.9	ug/Kg	07/12/12	R/J	SW8260
1,2-Dichlorobenzene	ND	4.9	ug/Kg	07/12/12	R/J	SW8260
1,2-Dichloroethane	ND	4.9	ug/Kg	07/12/12	R/J	SW8260
1,2-Dichloropropane	ND	4.9	ug/Kg	07/12/12	R/J	SW8260
1,3,5-Trimethylbenzene	ND	4.9	ug/Kg	07/12/12	R/J	SW8260
1,3-Dichlorobenzene	ND	4.9	ug/Kg	07/12/12	R/J	SW8260
1,3-Dichloropropane	ND	4.9	ug/Kg	07/12/12	R/J	SW8260
1,4-Dichlorobenzene	ND	4.9	ug/Kg	07/12/12	R/J	SW8260
2,2-Dichloropropane	ND	4.9	ug/Kg	07/12/12	R/J	SW8260
2-Chlorotoluene	ND	4.9	ug/Kg	07/12/12	R/J	SW8260
2-Hexanone	ND	25	ug/Kg	07/12/12	R/J	SW8260
2-Isopropyltoluene	ND	4.9	ug/Kg	07/12/12	R/J	SW8260
4-Chlorotoluene	ND	4.9	ug/Kg	07/12/12	R/J	SW8260
4-Methyl-2-pentanone	ND	25	ug/Kg	07/12/12	R/J	SW8260
Acetone	ND	99	ug/Kg	07/12/12	R/J	SW8260
Acrylonitrile	ND	4.9	ug/Kg	07/12/12	R/J	SW8260
Benzene	ND	4.9	ug/Kg	07/12/12	R/J	SW8260
Bromobenzene	ND	4.9	ug/Kg	07/12/12	R/J	SW8260
Bromochloromethane	ND	4.9	ug/Kg	07/12/12	R/J	SW8260
Bromodichloromethane	ND	4.9	ug/Kg	07/12/12	R/J	SW8260
Bromoform	ND	4.9	ug/Kg	07/12/12	R/J	SW8260
Bromomethane	ND	4.9	ug/Kg	07/12/12	R/J	SW8260
Carbon Disulfide	ND	4.9	ug/Kg	07/12/12	R/J	SW8260
Carbon tetrachloride	ND	4.9	ug/Kg	07/12/12	R/J	SW8260
Chlorobenzene	ND	4.9	ug/Kg	07/12/12	R/J	SW8260
Chloroethane	ND	4.9	ug/Kg	07/12/12	R/J	SW8260
Chloroform	ND	4.9	ug/Kg	07/12/12	R/J	SW8260
Chloromethane	ND	4.9	ug/Kg	07/12/12	R/J	SW8260
cis-1,2-Dichloroethene	ND	4.9	ug/Kg	07/12/12	R/J	SW8260
cis-1,3-Dichloropropene	ND	4.9	ug/Kg	07/12/12	R/J	SW8260
Dibromochloromethane	ND	3.0	ug/Kg	07/12/12	R/J	SW8260
Dibromomethane	ND	4.9	ug/Kg	07/12/12	R/J	SW8260
Dichlorodifluoromethane	ND	4.9	ug/Kg	07/12/12	R/J	SW8260
Ethylbenzene	ND	4.9	ug/Kg	07/12/12	R/J	SW8260
Hexachlorobutadiene	ND	4.9	ug/Kg	07/12/12	R/J	SW8260
Isopropylbenzene	ND	4.9	ug/Kg	07/12/12	R/J	SW8260
m&p-Xylene	ND	4.9	ug/Kg	07/12/12	R/J	SW8260
Methyl Ethyl Ketone	ND	30	ug/Kg	07/12/12	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	9.9	ug/Kg	07/12/12	R/J	SW8260
Methylene chloride	ND	4.9	ug/Kg	07/12/12	R/J	SW8260
Naphthalene	ND	4.9	ug/Kg	07/12/12	R/J	SW8260

Parameter	Result	RL	Units	Date/Time	By	Reference
n-Butylbenzene	ND	4.9	ug/Kg	07/12/12	R/J	SW8260
n-Propylbenzene	ND	4.9	ug/Kg	07/12/12	R/J	SW8260
o-Xylene	ND	4.9	ug/Kg	07/12/12	R/J	SW8260
p-Isopropyltoluene	ND	4.9	ug/Kg	07/12/12	R/J	SW8260
sec-Butylbenzene	ND	4.9	ug/Kg	07/12/12	R/J	SW8260
Styrene	ND	4.9	ug/Kg	07/12/12	R/J	SW8260
tert-Butylbenzene	ND	4.9	ug/Kg	07/12/12	R/J	SW8260
Tetrachloroethene	ND	4.9	ug/Kg	07/12/12	R/J	SW8260
Tetrahydrofuran (THF)	ND	9.9	ug/Kg	07/12/12	R/J	SW8260
Toluene	ND	4.9	ug/Kg	07/12/12	R/J	SW8260
Total Xylenes	ND	4.9	ug/Kg	07/12/12	R/J	SW8260
trans-1,2-Dichloroethene	ND	4.9	ug/Kg	07/12/12	R/J	SW8260
trans-1,3-Dichloropropene	ND	4.9	ug/Kg	07/12/12	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	9.9	ug/Kg	07/12/12	R/J	SW8260
Trichloroethene	ND	4.9	ug/Kg	07/12/12	R/J	SW8260
Trichlorofluoromethane	ND	4.9	ug/Kg	07/12/12	R/J	SW8260
Trichlorotrifluoroethane	ND	4.9	ug/Kg	07/12/12	R/J	SW8260
Vinyl chloride	ND	4.9	ug/Kg	07/12/12	R/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	102		%	07/12/12	R/J	70 - 130 %
% Bromofluorobenzene	93		%	07/12/12	R/J	70 - 130 %
% Dibromofluoromethane	83		%	07/12/12	R/J	70 - 130 %
% Toluene-d8	97		%	07/12/12	R/J	70 - 130 %

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	250	ug/Kg	07/11/12	DD	SW 8270
1,2,4-Trichlorobenzene	ND	250	ug/Kg	07/11/12	DD	SW 8270
1,2-Dichlorobenzene	ND	250	ug/Kg	07/11/12	DD	SW 8270
1,3-Dichlorobenzene	ND	250	ug/Kg	07/11/12	DD	SW 8270
1,4-Dichlorobenzene	ND	250	ug/Kg	07/11/12	DD	SW 8270
2,4,5-Trichlorophenol	ND	250	ug/Kg	07/11/12	DD	SW 8270
2,4,6-Trichlorophenol	ND	250	ug/Kg	07/11/12	DD	SW 8270
2,4-Dichlorophenol	ND	250	ug/Kg	07/11/12	DD	SW 8270
2,4-Dimethylphenol	ND	250	ug/Kg	07/11/12	DD	SW 8270
2,4-Dinitrophenol	ND	580	ug/Kg	07/11/12	DD	SW 8270
2,4-Dinitrotoluene	ND	250	ug/Kg	07/11/12	DD	SW 8270
2,6-Dinitrotoluene	ND	250	ug/Kg	07/11/12	DD	SW 8270
2-Chloronaphthalene	ND	250	ug/Kg	07/11/12	DD	SW 8270
2-Chlorophenol	ND	250	ug/Kg	07/11/12	DD	SW 8270
2-Methylnaphthalene	ND	250	ug/Kg	07/11/12	DD	SW 8270
2-Methylphenol (o-cresol)	ND	250	ug/Kg	07/11/12	DD	SW 8270
2-Nitroaniline	ND	580	ug/Kg	07/11/12	DD	SW 8270
2-Nitrophenol	ND	250	ug/Kg	07/11/12	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	360	ug/Kg	07/11/12	DD	SW 8270
3,3'-Dichlorobenzidine	ND	250	ug/Kg	07/11/12	DD	SW 8270
3-Nitroaniline	ND	580	ug/Kg	07/11/12	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	1000	ug/Kg	07/11/12	DD	SW 8270
4-Bromophenyl phenyl ether	ND	360	ug/Kg	07/11/12	DD	SW 8270
4-Chloro-3-methylphenol	ND	250	ug/Kg	07/11/12	DD	SW 8270
4-Chloroaniline	ND	250	ug/Kg	07/11/12	DD	SW 8270

Project ID: STAMFORD PEDESTRIAN RAILROAD BRIDGE
Client ID: GP-1 1-3 FT

Phoenix I.D.: BC08188

Parameter	Result	RL	Units	Date/Time	By	Reference
4-Chlorophenyl phenyl ether	ND	250	ug/Kg	07/11/12	DD	SW 8270
4-Nitroaniline	ND	580	ug/Kg	07/11/12	DD	SW 8270
4-Nitrophenol	ND	1000	ug/Kg	07/11/12	DD	SW 8270
Acenaphthene	ND	250	ug/Kg	07/11/12	DD	SW 8270
Acenaphthylene	ND	250	ug/Kg	07/11/12	DD	SW 8270
Acetophenone	ND	250	ug/Kg	07/11/12	DD	SW 8270
Aniline	ND	1000	ug/Kg	07/11/12	DD	SW 8270
Anthracene	260	250	ug/Kg	07/11/12	DD	SW 8270
Azobenzene	ND	360	ug/Kg	07/11/12	DD	SW 8270
Benz(a)anthracene	1600	250	ug/Kg	07/11/12	DD	SW 8270
Benzidine	ND	430	ug/Kg	07/11/12	DD	SW 8270
Benzo(a)pyrene	1200	250	ug/Kg	07/11/12	DD	SW 8270
Benzo(b)fluoranthene	2200	250	ug/Kg	07/11/12	DD	SW 8270
Benzo(ghi)perylene	450	250	ug/Kg	07/11/12	DD	SW 8270
Benzo(k)fluoranthene	470	250	ug/Kg	07/11/12	DD	SW 8270
Benzoic acid	ND	1000	ug/Kg	07/11/12	DD	SW 8270
Benzyl butyl phthalate	ND	250	ug/Kg	07/11/12	DD	SW 8270
Bis(2-chloroethoxy)methane	ND	250	ug/Kg	07/11/12	DD	SW 8270
Bis(2-chloroethyl)ether	ND	360	ug/Kg	07/11/12	DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	250	ug/Kg	07/11/12	DD	SW 8270
Bis(2-ethylhexyl)phthalate	ND	250	ug/Kg	07/11/12	DD	SW 8270
Carbazole	ND	540	ug/Kg	07/11/12	DD	SW 8270
Chrysene	1400	250	ug/Kg	07/11/12	DD	SW 8270
Dibenz(a,h)anthracene	ND	250	ug/Kg	07/11/12	DD	SW 8270
Dibenzofuran	ND	250	ug/Kg	07/11/12	DD	SW 8270
Diethyl phthalate	ND	250	ug/Kg	07/11/12	DD	SW 8270
Dimethylphthalate	ND	250	ug/Kg	07/11/12	DD	SW 8270
Di-n-butylphthalate	ND	250	ug/Kg	07/11/12	DD	SW 8270
Di-n-octylphthalate	ND	250	ug/Kg	07/11/12	DD	SW 8270
Fluoranthene	3800	250	ug/Kg	07/11/12	DD	SW 8270
Fluorene	ND	250	ug/Kg	07/11/12	DD	SW 8270
Hexachlorobenzene	ND	250	ug/Kg	07/11/12	DD	SW 8270
Hexachlorobutadiene	ND	250	ug/Kg	07/11/12	DD	SW 8270
Hexachlorocyclopentadiene	ND	250	ug/Kg	07/11/12	DD	SW 8270
Hexachloroethane	ND	250	ug/Kg	07/11/12	DD	SW 8270
Indeno(1,2,3-cd)pyrene	440	250	ug/Kg	07/11/12	DD	SW 8270
Isophorone	ND	250	ug/Kg	07/11/12	DD	SW 8270
Naphthalene	ND	250	ug/Kg	07/11/12	DD	SW 8270
Nitrobenzene	ND	250	ug/Kg	07/11/12	DD	SW 8270
N-Nitrosodimethylamine	ND	360	ug/Kg	07/11/12	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	250	ug/Kg	07/11/12	DD	SW 8270
N-Nitrosodiphenylamine	ND	360	ug/Kg	07/11/12	DD	SW 8270
Pentachloronitrobenzene	ND	360	ug/Kg	07/11/12	DD	SW 8270
Pentachlorophenol	ND	360	ug/Kg	07/11/12	DD	SW 8270
Phenanthrene	1200	250	ug/Kg	07/11/12	DD	SW 8270
Phenol	ND	250	ug/Kg	07/11/12	DD	SW 8270
Pyrene	3300	250	ug/Kg	07/11/12	DD	SW 8270
Pyridine	ND	360	ug/Kg	07/11/12	DD	SW 8270
QA/QC Surrogates						
% 2,4,6-Tribromophenol	30		%	07/11/12	DD	15 - 130 %

Project ID: STAMFORD PEDESTRIAN RAILROAD BRIDGE
Client ID: GP-1 1-3 FT

Phoenix I.D.: BC08188

Parameter	Result	RL	Units	Date/Time	By	Reference
% 2-Fluorobiphenyl	60		%	07/11/12	DD	30 - 130 %
% 2-Fluorophenol	59		%	07/11/12	DD	15 - 130 %
% Nitrobenzene-d5	68		%	07/11/12	DD	30 - 130 %
% Phenol-d5	69		%	07/11/12	DD	15 - 130 %
% Terphenyl-d14	68		%	07/11/12	DD	30 - 130 %

RL=Reporting Level ND=Not Detected BRL=Below Reporting Level

Comments:

**Poor IS recovery was observed for volatiles due to matrix interference. Sample was analyzed twice with similar results.

**Petroleum hydrocarbon chromatogram was not a perfect match with any of the standards,
but contains a distribution in the C12 to C36 range. The sample was quantitated against a C9-C36 standard.

All soils and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
July 16, 2012
Reviewed and Released by: Maryam Taylor, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 16, 2012

FOR: Attn: Ms. Jane Witherell
Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CY	07/09/12	12:05
Location Code:	MAGU-DAS	Received by:	LB	07/10/12	14:50
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBC08188
Phoenix ID: BC08189

Project ID: STAMFORD PEDESTRIAN RAILROAD BRIDGE
Client ID: GP-2 2-4 FT

Parameter	Result	RL	Units	Date/Time	By	Reference
Silver	< 0.38	0.38	mg/Kg	07/11/12	LK	SW6010
Arsenic	4.9	0.8	mg/Kg	07/11/12	LK	SW6010
Barium	118	0.38	mg/Kg	07/11/12	LK	SW6010
Cadmium	< 0.38	0.38	mg/Kg	07/11/12	LK	SW6010
Chromium	30.1	0.38	mg/Kg	07/11/12	LK	SW6010
Mercury	< 0.10	0.10	mg/Kg	07/11/12	RS	SW-7471
Lead	73.1	0.38	mg/Kg	07/11/12	LK	SW6010
Selenium	< 1.5	1.5	mg/Kg	07/11/12	LK	SW6010
SPLP Silver	< 0.010	0.010	mg/L	07/12/12	LK	SW6010
SPLP Arsenic	< 0.004	0.004	mg/L	07/12/12	LK	SW6010
SPLP Barium	0.013	0.010	mg/L	07/12/12	LK	SW6010
SPLP Cadmium	< 0.005	0.005	mg/L	07/12/12	LK	SW6010
SPLP Chromium	< 0.010	0.010	mg/L	07/12/12	LK	SW6010
SPLP Mercury	< 0.0004	0.0004	mg/L	07/11/12	RS	1312/SW7470
SPLP Lead	< 0.010	0.010	mg/L	07/12/12	LK	SW6010
SPLP Selenium	< 0.020	0.020	mg/L	07/12/12	LK	SW6010
SPLP Metals Digestion	Completed			07/11/12	X/X	SW846-3005
Percent Solid	81		%	07/10/12	JL	E160.3
Soil Extraction for PCB	Completed			07/10/12	RB/F	SW3545
Soil Extraction for Pesticide	Completed			07/10/12	RB	SW3545
Soil Extraction for SVOA	Completed			07/10/12	RJ/F	SW3545
Extraction of CT ETPH	Completed			07/10/12	RS/F	3545
Mercury Digestion	Completed			07/11/12	X/X	SW7471
SPLP Digestion Mercury	Completed			07/11/12	X/X	E1312/SW7470
SPLP Extraction for Metals	Completed			07/10/12	X	EPA 1312
Total Metals Digest	Completed			07/10/12	N/AG	SW846 - 3050
Field Extraction	Completed			07/09/12	CY	SW5035

Project ID: STAMFORD PEDESTRIAN RAILROAD BRIDGE
Client ID: GP-2 2-4 FT

Phoenix I.D.: BC08189

Parameter	Result	RL	Units	Date/Time	By	Reference
TPH by GC (Extractable Products)						
Ext. Petroleum HC	ND	12	mg/Kg	07/11/12	JRB	CT ETPH/8015
Identification	ND		mg/Kg	07/11/12	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	86		%	07/11/12	JRB	50 - 150 %
Polychlorinated Biphenyls						
PCB-1016	ND	400	ug/Kg	07/11/12	AW	SW 8082
PCB-1221	ND	400	ug/Kg	07/11/12	AW	SW 8082
PCB-1232	ND	400	ug/Kg	07/11/12	AW	SW 8082
PCB-1242	ND	400	ug/Kg	07/11/12	AW	SW 8082
PCB-1248	ND	400	ug/Kg	07/11/12	AW	SW 8082
PCB-1254	ND	400	ug/Kg	07/11/12	AW	SW 8082
PCB-1260	ND	400	ug/Kg	07/11/12	AW	SW 8082
PCB-1262	ND	400	ug/Kg	07/11/12	AW	SW 8082
PCB-1268	ND	400	ug/Kg	07/11/12	AW	SW 8082
QA/QC Surrogates						
% DCBP	49		%	07/11/12	AW	30 - 150 %
% TCMX	65		%	07/11/12	AW	30 - 150 %
Pesticides						
4,4' -DDD	ND	39	ug/Kg	07/11/12	MH	SW8081
4,4' -DDE	ND	39	ug/Kg	07/11/12	MH	SW8081
4,4' -DDT	ND	39	ug/Kg	07/11/12	MH	SW8081
a-BHC	ND	19	ug/Kg	07/11/12	MH	SW8081
Alachlor	ND	19	ug/Kg	07/11/12	MH	SW8081
Aldrin	ND	6.0	ug/Kg	07/11/12	MH	SW8081
b-BHC	ND	19	ug/Kg	07/11/12	MH	SW8081
Chlordane	ND	60	ug/Kg	07/11/12	MH	SW8081
d-BHC	ND	19	ug/Kg	07/11/12	MH	SW8081
Dieldrin	ND	6.0	ug/Kg	07/11/12	MH	SW8081
Endosulfan I	ND	19	ug/Kg	07/11/12	MH	SW8081
Endosulfan II	ND	39	ug/Kg	07/11/12	MH	SW8081
Endosulfan sulfate	ND	39	ug/Kg	07/11/12	MH	SW8081
Endrin	ND	39	ug/Kg	07/11/12	MH	SW8081
Endrin aldehyde	ND	39	ug/Kg	07/11/12	MH	SW8081
Endrin ketone	ND	39	ug/Kg	07/11/12	MH	SW8081
g-BHC	ND	6.0	ug/Kg	07/11/12	MH	SW8081
Heptachlor	ND	12	ug/Kg	07/11/12	MH	SW8081
Heptachlor epoxide	ND	19	ug/Kg	07/11/12	MH	SW8081
Methoxychlor	ND	190	ug/Kg	07/11/12	MH	SW8081
Toxaphene	ND	190	ug/Kg	07/11/12	MH	SW8081
QA/QC Surrogates						
% DCBP	50		%	07/11/12	MH	30 - 150 %
% TCMX	59		%	07/11/12	MH	30 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	6.4	ug/Kg	07/12/12	R/J	SW8260
1,1,1-Trichloroethane	ND	6.4	ug/Kg	07/12/12	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.9	ug/Kg	07/12/12	R/J	SW8260

Project ID: STAMFORD PEDESTRIAN RAILROAD BRIDGE
Client ID: GP-2 2-4 FT

Phoenix I.D.: BC08189

Parameter	Result	RL	Units	Date/Time	By	Reference
1,1,2-Trichloroethane	ND	6.4	ug/Kg	07/12/12	R/J	SW8260
1,1-Dichloroethane	ND	6.4	ug/Kg	07/12/12	R/J	SW8260
1,1-Dichloroethene	ND	6.4	ug/Kg	07/12/12	R/J	SW8260
1,1-Dichloropropene	ND	6.4	ug/Kg	07/12/12	R/J	SW8260
1,2,3-Trichlorobenzene	ND	6.4	ug/Kg	07/12/12	R/J	SW8260
1,2,3-Trichloropropane	ND	6.4	ug/Kg	07/12/12	R/J	SW8260
1,2,4-Trichlorobenzene	ND	6.4	ug/Kg	07/12/12	R/J	SW8260
1,2,4-Trimethylbenzene	ND	6.4	ug/Kg	07/12/12	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	6.4	ug/Kg	07/12/12	R/J	SW8260
1,2-Dibromoethane	ND	6.4	ug/Kg	07/12/12	R/J	SW8260
1,2-Dichlorobenzene	ND	6.4	ug/Kg	07/12/12	R/J	SW8260
1,2-Dichloroethane	ND	6.4	ug/Kg	07/12/12	R/J	SW8260
1,2-Dichloropropane	ND	6.4	ug/Kg	07/12/12	R/J	SW8260
1,3,5-Trimethylbenzene	ND	6.4	ug/Kg	07/12/12	R/J	SW8260
1,3-Dichlorobenzene	ND	6.4	ug/Kg	07/12/12	R/J	SW8260
1,3-Dichloropropane	ND	6.4	ug/Kg	07/12/12	R/J	SW8260
1,4-Dichlorobenzene	ND	6.4	ug/Kg	07/12/12	R/J	SW8260
2,2-Dichloropropane	ND	6.4	ug/Kg	07/12/12	R/J	SW8260
2-Chlorotoluene	ND	6.4	ug/Kg	07/12/12	R/J	SW8260
2-Hexanone	ND	32	ug/Kg	07/12/12	R/J	SW8260
2-Isopropyltoluene	ND	6.4	ug/Kg	07/12/12	R/J	SW8260
4-Chlorotoluene	ND	6.4	ug/Kg	07/12/12	R/J	SW8260
4-Methyl-2-pentanone	ND	32	ug/Kg	07/12/12	R/J	SW8260
Acetone	ND	130	ug/Kg	07/12/12	R/J	SW8260
Acrylonitrile	ND	6.4	ug/Kg	07/12/12	R/J	SW8260
Benzene	ND	6.4	ug/Kg	07/12/12	R/J	SW8260
Bromobenzene	ND	6.4	ug/Kg	07/12/12	R/J	SW8260
Bromochloromethane	ND	6.4	ug/Kg	07/12/12	R/J	SW8260
Bromodichloromethane	ND	6.4	ug/Kg	07/12/12	R/J	SW8260
Bromoform	ND	6.4	ug/Kg	07/12/12	R/J	SW8260
Bromomethane	ND	6.4	ug/Kg	07/12/12	R/J	SW8260
Carbon Disulfide	ND	6.4	ug/Kg	07/12/12	R/J	SW8260
Carbon tetrachloride	ND	6.4	ug/Kg	07/12/12	R/J	SW8260
Chlorobenzene	ND	6.4	ug/Kg	07/12/12	R/J	SW8260
Chloroethane	ND	6.4	ug/Kg	07/12/12	R/J	SW8260
Chloroform	ND	6.4	ug/Kg	07/12/12	R/J	SW8260
Chloromethane	ND	6.4	ug/Kg	07/12/12	R/J	SW8260
cis-1,2-Dichloroethene	ND	6.4	ug/Kg	07/12/12	R/J	SW8260
cis-1,3-Dichloropropene	ND	6.4	ug/Kg	07/12/12	R/J	SW8260
Dibromochloromethane	ND	3.9	ug/Kg	07/12/12	R/J	SW8260
Dibromomethane	ND	6.4	ug/Kg	07/12/12	R/J	SW8260
Dichlorodifluoromethane	ND	6.4	ug/Kg	07/12/12	R/J	SW8260
Ethylbenzene	ND	6.4	ug/Kg	07/12/12	R/J	SW8260
Hexachlorobutadiene	ND	6.4	ug/Kg	07/12/12	R/J	SW8260
Isopropylbenzene	ND	6.4	ug/Kg	07/12/12	R/J	SW8260
m&p-Xylene	ND	6.4	ug/Kg	07/12/12	R/J	SW8260
Methyl Ethyl Ketone	ND	39	ug/Kg	07/12/12	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	13	ug/Kg	07/12/12	R/J	SW8260
Methylene chloride	ND	6.4	ug/Kg	07/12/12	R/J	SW8260
Naphthalene	ND	6.4	ug/Kg	07/12/12	R/J	SW8260

Parameter	Result	RL	Units	Date/Time	By	Reference
n-Butylbenzene	ND	6.4	ug/Kg	07/12/12	R/J	SW8260
n-Propylbenzene	ND	6.4	ug/Kg	07/12/12	R/J	SW8260
o-Xylene	ND	6.4	ug/Kg	07/12/12	R/J	SW8260
p-Isopropyltoluene	ND	6.4	ug/Kg	07/12/12	R/J	SW8260
sec-Butylbenzene	ND	6.4	ug/Kg	07/12/12	R/J	SW8260
Styrene	ND	6.4	ug/Kg	07/12/12	R/J	SW8260
tert-Butylbenzene	ND	6.4	ug/Kg	07/12/12	R/J	SW8260
Tetrachloroethene	ND	6.4	ug/Kg	07/12/12	R/J	SW8260
Tetrahydrofuran (THF)	ND	13	ug/Kg	07/12/12	R/J	SW8260
Toluene	ND	6.4	ug/Kg	07/12/12	R/J	SW8260
Total Xylenes	ND	6.4	ug/Kg	07/12/12	R/J	SW8260
trans-1,2-Dichloroethene	ND	6.4	ug/Kg	07/12/12	R/J	SW8260
trans-1,3-Dichloropropene	ND	6.4	ug/Kg	07/12/12	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	13	ug/Kg	07/12/12	R/J	SW8260
Trichloroethene	ND	6.4	ug/Kg	07/12/12	R/J	SW8260
Trichlorofluoromethane	ND	6.4	ug/Kg	07/12/12	R/J	SW8260
Trichlorotrifluoroethane	ND	6.4	ug/Kg	07/12/12	R/J	SW8260
Vinyl chloride	ND	6.4	ug/Kg	07/12/12	R/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	103		%	07/12/12	R/J	70 - 130 %
% Bromofluorobenzene	85		%	07/12/12	R/J	70 - 130 %
% Dibromofluoromethane	103		%	07/12/12	R/J	70 - 130 %
% Toluene-d8	99		%	07/12/12	R/J	70 - 130 %

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	290	ug/Kg	07/11/12	DD	SW 8270
1,2,4-Trichlorobenzene	ND	290	ug/Kg	07/11/12	DD	SW 8270
1,2-Dichlorobenzene	ND	290	ug/Kg	07/11/12	DD	SW 8270
1,3-Dichlorobenzene	ND	290	ug/Kg	07/11/12	DD	SW 8270
1,4-Dichlorobenzene	ND	290	ug/Kg	07/11/12	DD	SW 8270
2,4,5-Trichlorophenol	ND	290	ug/Kg	07/11/12	DD	SW 8270
2,4,6-Trichlorophenol	ND	290	ug/Kg	07/11/12	DD	SW 8270
2,4-Dichlorophenol	ND	290	ug/Kg	07/11/12	DD	SW 8270
2,4-Dimethylphenol	ND	290	ug/Kg	07/11/12	DD	SW 8270
2,4-Dinitrophenol	ND	650	ug/Kg	07/11/12	DD	SW 8270
2,4-Dinitrotoluene	ND	290	ug/Kg	07/11/12	DD	SW 8270
2,6-Dinitrotoluene	ND	290	ug/Kg	07/11/12	DD	SW 8270
2-Chloronaphthalene	ND	290	ug/Kg	07/11/12	DD	SW 8270
2-Chlorophenol	ND	290	ug/Kg	07/11/12	DD	SW 8270
2-Methylnaphthalene	ND	290	ug/Kg	07/11/12	DD	SW 8270
2-Methylphenol (o-cresol)	ND	290	ug/Kg	07/11/12	DD	SW 8270
2-Nitroaniline	ND	650	ug/Kg	07/11/12	DD	SW 8270
2-Nitrophenol	ND	290	ug/Kg	07/11/12	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	410	ug/Kg	07/11/12	DD	SW 8270
3,3'-Dichlorobenzidine	ND	290	ug/Kg	07/11/12	DD	SW 8270
3-Nitroaniline	ND	650	ug/Kg	07/11/12	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	1200	ug/Kg	07/11/12	DD	SW 8270
4-Bromophenyl phenyl ether	ND	410	ug/Kg	07/11/12	DD	SW 8270
4-Chloro-3-methylphenol	ND	290	ug/Kg	07/11/12	DD	SW 8270
4-Chloroaniline	ND	290	ug/Kg	07/11/12	DD	SW 8270

Project ID: STAMFORD PEDESTRIAN RAILROAD BRIDGE
Client ID: GP-2 2-4 FT

Phoenix I.D.: BC08189

Parameter	Result	RL	Units	Date/Time	By	Reference
4-Chlorophenyl phenyl ether	ND	290	ug/Kg	07/11/12	DD	SW 8270
4-Nitroaniline	ND	650	ug/Kg	07/11/12	DD	SW 8270
4-Nitrophenol	ND	1200	ug/Kg	07/11/12	DD	SW 8270
Acenaphthene	ND	290	ug/Kg	07/11/12	DD	SW 8270
Acenaphthylene	ND	290	ug/Kg	07/11/12	DD	SW 8270
Acetophenone	ND	290	ug/Kg	07/11/12	DD	SW 8270
Aniline	ND	1200	ug/Kg	07/11/12	DD	SW 8270
Anthracene	ND	290	ug/Kg	07/11/12	DD	SW 8270
Azobenzene	ND	410	ug/Kg	07/11/12	DD	SW 8270
Benz(a)anthracene	ND	290	ug/Kg	07/11/12	DD	SW 8270
Benzidine	ND	490	ug/Kg	07/11/12	DD	SW 8270
Benzo(a)pyrene	ND	290	ug/Kg	07/11/12	DD	SW 8270
Benzo(b)fluoranthene	ND	290	ug/Kg	07/11/12	DD	SW 8270
Benzo(ghi)perylene	ND	290	ug/Kg	07/11/12	DD	SW 8270
Benzo(k)fluoranthene	ND	290	ug/Kg	07/11/12	DD	SW 8270
Benzoic acid	ND	1200	ug/Kg	07/11/12	DD	SW 8270
Benzyl butyl phthalate	ND	290	ug/Kg	07/11/12	DD	SW 8270
Bis(2-chloroethoxy)methane	ND	290	ug/Kg	07/11/12	DD	SW 8270
Bis(2-chloroethyl)ether	ND	410	ug/Kg	07/11/12	DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	290	ug/Kg	07/11/12	DD	SW 8270
Bis(2-ethylhexyl)phthalate	ND	290	ug/Kg	07/11/12	DD	SW 8270
Carbazole	ND	610	ug/Kg	07/11/12	DD	SW 8270
Chrysene	ND	290	ug/Kg	07/11/12	DD	SW 8270
Dibenz(a,h)anthracene	ND	290	ug/Kg	07/11/12	DD	SW 8270
Dibenzofuran	ND	290	ug/Kg	07/11/12	DD	SW 8270
Diethyl phthalate	ND	290	ug/Kg	07/11/12	DD	SW 8270
Dimethylphthalate	ND	290	ug/Kg	07/11/12	DD	SW 8270
Di-n-butylphthalate	ND	290	ug/Kg	07/11/12	DD	SW 8270
Di-n-octylphthalate	ND	290	ug/Kg	07/11/12	DD	SW 8270
Fluoranthene	ND	290	ug/Kg	07/11/12	DD	SW 8270
Fluorene	ND	290	ug/Kg	07/11/12	DD	SW 8270
Hexachlorobenzene	ND	290	ug/Kg	07/11/12	DD	SW 8270
Hexachlorobutadiene	ND	290	ug/Kg	07/11/12	DD	SW 8270
Hexachlorocyclopentadiene	ND	290	ug/Kg	07/11/12	DD	SW 8270
Hexachloroethane	ND	290	ug/Kg	07/11/12	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	290	ug/Kg	07/11/12	DD	SW 8270
Isophorone	ND	290	ug/Kg	07/11/12	DD	SW 8270
Naphthalene	ND	290	ug/Kg	07/11/12	DD	SW 8270
Nitrobenzene	ND	290	ug/Kg	07/11/12	DD	SW 8270
N-Nitrosodimethylamine	ND	410	ug/Kg	07/11/12	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	290	ug/Kg	07/11/12	DD	SW 8270
N-Nitrosodiphenylamine	ND	410	ug/Kg	07/11/12	DD	SW 8270
Pentachloronitrobenzene	ND	410	ug/Kg	07/11/12	DD	SW 8270
Pentachlorophenol	ND	410	ug/Kg	07/11/12	DD	SW 8270
Phenanthrene	ND	290	ug/Kg	07/11/12	DD	SW 8270
Phenol	ND	290	ug/Kg	07/11/12	DD	SW 8270
Pyrene	ND	290	ug/Kg	07/11/12	DD	SW 8270
Pyridine	ND	410	ug/Kg	07/11/12	DD	SW 8270
QA/QC Surrogates						
% 2,4,6-Tribromophenol	80		%	07/11/12	DD	15 - 130 %

Project ID: STAMFORD PEDESTRIAN RAILROAD BRIDGE
Client ID: GP-2 2-4 FT

Phoenix I.D.: BC08189

Parameter	Result	RL	Units	Date/Time	By	Reference
% 2-Fluorobiphenyl	67		%	07/11/12	DD	30 - 130 %
% 2-Fluorophenol	66		%	07/11/12	DD	15 - 130 %
% Nitrobenzene-d5	71		%	07/11/12	DD	30 - 130 %
% Phenol-d5	69		%	07/11/12	DD	15 - 130 %
% Terphenyl-d14	74		%	07/11/12	DD	30 - 130 %

RL=Reporting Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
July 16, 2012
Reviewed and Released by: Maryam Taylor, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 16, 2012

FOR: Attn: Ms. Jane Witherell
Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CY	07/09/12	12:10
Location Code:	MAGU-DAS	Received by:	LB	07/10/12	14:50
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBC08188
Phoenix ID: BC08190

Project ID: STAMFORD PEDESTRIAN RAILROAD BRIDGE
Client ID: GP-2 8-10 FT

Parameter	Result	RL	Units	Date/Time	By	Reference
Silver	< 0.42	0.42	mg/Kg	07/11/12	LK	SW6010
Arsenic	3.3	0.8	mg/Kg	07/11/12	LK	SW6010
Barium	110	0.42	mg/Kg	07/11/12	LK	SW6010
Cadmium	< 0.42	0.42	mg/Kg	07/11/12	LK	SW6010
Chromium	23.7	0.42	mg/Kg	07/11/12	LK	SW6010
Mercury	< 0.09	0.09	mg/Kg	07/11/12	RS	SW-7471
Lead	42.6	0.42	mg/Kg	07/11/12	LK	SW6010
Selenium	< 1.7	1.7	mg/Kg	07/11/12	LK	SW6010
SPLP Silver	< 0.010	0.010	mg/L	07/12/12	LK	SW6010
SPLP Arsenic	< 0.004	0.004	mg/L	07/12/12	LK	SW6010
SPLP Barium	0.015	0.010	mg/L	07/12/12	LK	SW6010
SPLP Cadmium	< 0.005	0.005	mg/L	07/12/12	LK	SW6010
SPLP Chromium	< 0.010	0.010	mg/L	07/12/12	LK	SW6010
SPLP Mercury	< 0.0004	0.0004	mg/L	07/11/12	RS	1312/SW7470
SPLP Lead	< 0.010	0.010	mg/L	07/12/12	LK	SW6010
SPLP Selenium	< 0.020	0.020	mg/L	07/12/12	LK	SW6010
SPLP Metals Digestion	Completed			07/11/12	X/X	SW846-3005
Percent Solid	82		%	07/10/12	JL	E160.3
Soil Extraction for PCB	Completed			07/10/12	RB/F	SW3545
Soil Extraction for Pesticide	Completed			07/10/12	RB	SW3545
Soil Extraction for SVOA	Completed			07/10/12	RJ/F	SW3545
Extraction of CT ETPH	Completed			07/10/12	JS/F	3545
Mercury Digestion	Completed			07/11/12	X/X	SW7471
SPLP Digestion Mercury	Completed			07/11/12	X/X	E1312/SW7470
SPLP Extraction for Metals	Completed			07/10/12	X	EPA 1312
Total Metals Digest	Completed			07/10/12	N/AG	SW846 - 3050
Field Extraction	Completed			07/09/12	CY	SW5035

Project ID: STAMFORD PEDESTRIAN RAILROAD BRIDGE
Client ID: GP-2 8-10 FT

Phoenix I.D.: BC08190

Parameter	Result	RL	Units	Date/Time	By	Reference
TPH by GC (Extractable Products)						
Ext. Petroleum HC	ND	12	mg/Kg	07/11/12	JRB	CT ETPH/8015
Identification	ND		mg/Kg	07/11/12	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	77		%	07/11/12	JRB	50 - 150 %
Polychlorinated Biphenyls						
PCB-1016	ND	400	ug/Kg	07/11/12	AW	SW 8082
PCB-1221	ND	400	ug/Kg	07/11/12	AW	SW 8082
PCB-1232	ND	400	ug/Kg	07/11/12	AW	SW 8082
PCB-1242	ND	400	ug/Kg	07/11/12	AW	SW 8082
PCB-1248	ND	400	ug/Kg	07/11/12	AW	SW 8082
PCB-1254	ND	400	ug/Kg	07/11/12	AW	SW 8082
PCB-1260	ND	400	ug/Kg	07/11/12	AW	SW 8082
PCB-1262	ND	400	ug/Kg	07/11/12	AW	SW 8082
PCB-1268	ND	400	ug/Kg	07/11/12	AW	SW 8082
QA/QC Surrogates						
% DCBP	66		%	07/11/12	AW	30 - 150 %
% TCMX	83		%	07/11/12	AW	30 - 150 %
Pesticides						
4,4' -DDD	ND	39	ug/Kg	07/11/12	MH	SW8081
4,4' -DDE	ND	39	ug/Kg	07/11/12	MH	SW8081
4,4' -DDT	ND	39	ug/Kg	07/11/12	MH	SW8081
a-BHC	ND	19	ug/Kg	07/11/12	MH	SW8081
Alachlor	ND	19	ug/Kg	07/11/12	MH	SW8081
Aldrin	ND	6.1	ug/Kg	07/11/12	MH	SW8081
b-BHC	ND	19	ug/Kg	07/11/12	MH	SW8081
Chlordane	ND	61	ug/Kg	07/11/12	MH	SW8081
d-BHC	ND	19	ug/Kg	07/11/12	MH	SW8081
Dieldrin	ND	6.1	ug/Kg	07/11/12	MH	SW8081
Endosulfan I	ND	19	ug/Kg	07/11/12	MH	SW8081
Endosulfan II	ND	39	ug/Kg	07/11/12	MH	SW8081
Endosulfan sulfate	ND	39	ug/Kg	07/11/12	MH	SW8081
Endrin	ND	39	ug/Kg	07/11/12	MH	SW8081
Endrin aldehyde	ND	39	ug/Kg	07/11/12	MH	SW8081
Endrin ketone	ND	39	ug/Kg	07/11/12	MH	SW8081
g-BHC	ND	6.1	ug/Kg	07/11/12	MH	SW8081
Heptachlor	ND	12	ug/Kg	07/11/12	MH	SW8081
Heptachlor epoxide	ND	19	ug/Kg	07/11/12	MH	SW8081
Methoxychlor	ND	190	ug/Kg	07/11/12	MH	SW8081
Toxaphene	ND	190	ug/Kg	07/11/12	MH	SW8081
QA/QC Surrogates						
% DCBP	74		%	07/11/12	MH	30 - 150 %
% TCMX	86		%	07/11/12	MH	30 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	6.5	ug/Kg	07/12/12	R/J	SW8260
1,1,1-Trichloroethane	ND	6.5	ug/Kg	07/12/12	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.9	ug/Kg	07/12/12	R/J	SW8260

Project ID: STAMFORD PEDESTRIAN RAILROAD BRIDGE
Client ID: GP-2 8-10 FT

Phoenix I.D.: BC08190

Parameter	Result	RL	Units	Date/Time	By	Reference
1,1,2-Trichloroethane	ND	6.5	ug/Kg	07/12/12	R/J	SW8260
1,1-Dichloroethane	ND	6.5	ug/Kg	07/12/12	R/J	SW8260
1,1-Dichloroethene	ND	6.5	ug/Kg	07/12/12	R/J	SW8260
1,1-Dichloropropene	ND	6.5	ug/Kg	07/12/12	R/J	SW8260
1,2,3-Trichlorobenzene	ND	6.5	ug/Kg	07/12/12	R/J	SW8260
1,2,3-Trichloropropane	ND	6.5	ug/Kg	07/12/12	R/J	SW8260
1,2,4-Trichlorobenzene	ND	6.5	ug/Kg	07/12/12	R/J	SW8260
1,2,4-Trimethylbenzene	ND	6.5	ug/Kg	07/12/12	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	6.5	ug/Kg	07/12/12	R/J	SW8260
1,2-Dibromoethane	ND	6.5	ug/Kg	07/12/12	R/J	SW8260
1,2-Dichlorobenzene	ND	6.5	ug/Kg	07/12/12	R/J	SW8260
1,2-Dichloroethane	ND	6.5	ug/Kg	07/12/12	R/J	SW8260
1,2-Dichloropropane	ND	6.5	ug/Kg	07/12/12	R/J	SW8260
1,3,5-Trimethylbenzene	ND	6.5	ug/Kg	07/12/12	R/J	SW8260
1,3-Dichlorobenzene	ND	6.5	ug/Kg	07/12/12	R/J	SW8260
1,3-Dichloropropane	ND	6.5	ug/Kg	07/12/12	R/J	SW8260
1,4-Dichlorobenzene	ND	6.5	ug/Kg	07/12/12	R/J	SW8260
2,2-Dichloropropane	ND	6.5	ug/Kg	07/12/12	R/J	SW8260
2-Chlorotoluene	ND	6.5	ug/Kg	07/12/12	R/J	SW8260
2-Hexanone	ND	32	ug/Kg	07/12/12	R/J	SW8260
2-Isopropyltoluene	ND	6.5	ug/Kg	07/12/12	R/J	SW8260
4-Chlorotoluene	ND	6.5	ug/Kg	07/12/12	R/J	SW8260
4-Methyl-2-pentanone	ND	32	ug/Kg	07/12/12	R/J	SW8260
Acetone	ND	130	ug/Kg	07/12/12	R/J	SW8260
Acrylonitrile	ND	6.5	ug/Kg	07/12/12	R/J	SW8260
Benzene	ND	6.5	ug/Kg	07/12/12	R/J	SW8260
Bromobenzene	ND	6.5	ug/Kg	07/12/12	R/J	SW8260
Bromochloromethane	ND	6.5	ug/Kg	07/12/12	R/J	SW8260
Bromodichloromethane	ND	6.5	ug/Kg	07/12/12	R/J	SW8260
Bromoform	ND	6.5	ug/Kg	07/12/12	R/J	SW8260
Bromomethane	ND	6.5	ug/Kg	07/12/12	R/J	SW8260
Carbon Disulfide	ND	6.5	ug/Kg	07/12/12	R/J	SW8260
Carbon tetrachloride	ND	6.5	ug/Kg	07/12/12	R/J	SW8260
Chlorobenzene	ND	6.5	ug/Kg	07/12/12	R/J	SW8260
Chloroethane	ND	6.5	ug/Kg	07/12/12	R/J	SW8260
Chloroform	ND	6.5	ug/Kg	07/12/12	R/J	SW8260
Chloromethane	ND	6.5	ug/Kg	07/12/12	R/J	SW8260
cis-1,2-Dichloroethene	ND	6.5	ug/Kg	07/12/12	R/J	SW8260
cis-1,3-Dichloropropene	ND	6.5	ug/Kg	07/12/12	R/J	SW8260
Dibromochloromethane	ND	3.9	ug/Kg	07/12/12	R/J	SW8260
Dibromomethane	ND	6.5	ug/Kg	07/12/12	R/J	SW8260
Dichlorodifluoromethane	ND	6.5	ug/Kg	07/12/12	R/J	SW8260
Ethylbenzene	ND	6.5	ug/Kg	07/12/12	R/J	SW8260
Hexachlorobutadiene	ND	6.5	ug/Kg	07/12/12	R/J	SW8260
Isopropylbenzene	ND	6.5	ug/Kg	07/12/12	R/J	SW8260
m&p-Xylene	ND	6.5	ug/Kg	07/12/12	R/J	SW8260
Methyl Ethyl Ketone	ND	39	ug/Kg	07/12/12	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	13	ug/Kg	07/12/12	R/J	SW8260
Methylene chloride	ND	6.5	ug/Kg	07/12/12	R/J	SW8260
Naphthalene	ND	6.5	ug/Kg	07/12/12	R/J	SW8260

Parameter	Result	RL	Units	Date/Time	By	Reference
n-Butylbenzene	ND	6.5	ug/Kg	07/12/12	R/J	SW8260
n-Propylbenzene	ND	6.5	ug/Kg	07/12/12	R/J	SW8260
o-Xylene	ND	6.5	ug/Kg	07/12/12	R/J	SW8260
p-Isopropyltoluene	ND	6.5	ug/Kg	07/12/12	R/J	SW8260
sec-Butylbenzene	ND	6.5	ug/Kg	07/12/12	R/J	SW8260
Styrene	ND	6.5	ug/Kg	07/12/12	R/J	SW8260
tert-Butylbenzene	ND	6.5	ug/Kg	07/12/12	R/J	SW8260
Tetrachloroethene	ND	6.5	ug/Kg	07/12/12	R/J	SW8260
Tetrahydrofuran (THF)	ND	13	ug/Kg	07/12/12	R/J	SW8260
Toluene	ND	6.5	ug/Kg	07/12/12	R/J	SW8260
Total Xylenes	ND	6.5	ug/Kg	07/12/12	R/J	SW8260
trans-1,2-Dichloroethene	ND	6.5	ug/Kg	07/12/12	R/J	SW8260
trans-1,3-Dichloropropene	ND	6.5	ug/Kg	07/12/12	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	13	ug/Kg	07/12/12	R/J	SW8260
Trichloroethene	ND	6.5	ug/Kg	07/12/12	R/J	SW8260
Trichlorofluoromethane	ND	6.5	ug/Kg	07/12/12	R/J	SW8260
Trichlorotrifluoroethane	ND	6.5	ug/Kg	07/12/12	R/J	SW8260
Vinyl chloride	ND	6.5	ug/Kg	07/12/12	R/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	102		%	07/12/12	R/J	70 - 130 %
% Bromofluorobenzene	86		%	07/12/12	R/J	70 - 130 %
% Dibromofluoromethane	102		%	07/12/12	R/J	70 - 130 %
% Toluene-d8	99		%	07/12/12	R/J	70 - 130 %

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	280	ug/Kg	07/11/12	DD	SW 8270
1,2,4-Trichlorobenzene	ND	280	ug/Kg	07/11/12	DD	SW 8270
1,2-Dichlorobenzene	ND	280	ug/Kg	07/11/12	DD	SW 8270
1,3-Dichlorobenzene	ND	280	ug/Kg	07/11/12	DD	SW 8270
1,4-Dichlorobenzene	ND	280	ug/Kg	07/11/12	DD	SW 8270
2,4,5-Trichlorophenol	ND	280	ug/Kg	07/11/12	DD	SW 8270
2,4,6-Trichlorophenol	ND	280	ug/Kg	07/11/12	DD	SW 8270
2,4-Dichlorophenol	ND	280	ug/Kg	07/11/12	DD	SW 8270
2,4-Dimethylphenol	ND	280	ug/Kg	07/11/12	DD	SW 8270
2,4-Dinitrophenol	ND	640	ug/Kg	07/11/12	DD	SW 8270
2,4-Dinitrotoluene	ND	280	ug/Kg	07/11/12	DD	SW 8270
2,6-Dinitrotoluene	ND	280	ug/Kg	07/11/12	DD	SW 8270
2-Chloronaphthalene	ND	280	ug/Kg	07/11/12	DD	SW 8270
2-Chlorophenol	ND	280	ug/Kg	07/11/12	DD	SW 8270
2-Methylnaphthalene	ND	280	ug/Kg	07/11/12	DD	SW 8270
2-Methylphenol (o-cresol)	ND	280	ug/Kg	07/11/12	DD	SW 8270
2-Nitroaniline	ND	640	ug/Kg	07/11/12	DD	SW 8270
2-Nitrophenol	ND	280	ug/Kg	07/11/12	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	400	ug/Kg	07/11/12	DD	SW 8270
3,3'-Dichlorobenzidine	ND	280	ug/Kg	07/11/12	DD	SW 8270
3-Nitroaniline	ND	640	ug/Kg	07/11/12	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	1200	ug/Kg	07/11/12	DD	SW 8270
4-Bromophenyl phenyl ether	ND	400	ug/Kg	07/11/12	DD	SW 8270
4-Chloro-3-methylphenol	ND	280	ug/Kg	07/11/12	DD	SW 8270
4-Chloroaniline	ND	280	ug/Kg	07/11/12	DD	SW 8270

Project ID: STAMFORD PEDESTRIAN RAILROAD BRIDGE
Client ID: GP-2 8-10 FT

Phoenix I.D.: BC08190

Parameter	Result	RL	Units	Date/Time	By	Reference
4-Chlorophenyl phenyl ether	ND	280	ug/Kg	07/11/12	DD	SW 8270
4-Nitroaniline	ND	640	ug/Kg	07/11/12	DD	SW 8270
4-Nitrophenol	ND	1200	ug/Kg	07/11/12	DD	SW 8270
Acenaphthene	ND	280	ug/Kg	07/11/12	DD	SW 8270
Acenaphthylene	ND	280	ug/Kg	07/11/12	DD	SW 8270
Acetophenone	ND	280	ug/Kg	07/11/12	DD	SW 8270
Aniline	ND	1200	ug/Kg	07/11/12	DD	SW 8270
Anthracene	ND	280	ug/Kg	07/11/12	DD	SW 8270
Azobenzene	ND	400	ug/Kg	07/11/12	DD	SW 8270
Benz(a)anthracene	ND	280	ug/Kg	07/11/12	DD	SW 8270
Benzidine	ND	480	ug/Kg	07/11/12	DD	SW 8270
Benzo(a)pyrene	ND	280	ug/Kg	07/11/12	DD	SW 8270
Benzo(b)fluoranthene	ND	280	ug/Kg	07/11/12	DD	SW 8270
Benzo(ghi)perylene	ND	280	ug/Kg	07/11/12	DD	SW 8270
Benzo(k)fluoranthene	ND	280	ug/Kg	07/11/12	DD	SW 8270
Benzoic acid	ND	1200	ug/Kg	07/11/12	DD	SW 8270
Benzyl butyl phthalate	ND	280	ug/Kg	07/11/12	DD	SW 8270
Bis(2-chloroethoxy)methane	ND	280	ug/Kg	07/11/12	DD	SW 8270
Bis(2-chloroethyl)ether	ND	400	ug/Kg	07/11/12	DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	280	ug/Kg	07/11/12	DD	SW 8270
Bis(2-ethylhexyl)phthalate	ND	280	ug/Kg	07/11/12	DD	SW 8270
Carbazole	ND	600	ug/Kg	07/11/12	DD	SW 8270
Chrysene	ND	280	ug/Kg	07/11/12	DD	SW 8270
Dibenz(a,h)anthracene	ND	280	ug/Kg	07/11/12	DD	SW 8270
Dibenzofuran	ND	280	ug/Kg	07/11/12	DD	SW 8270
Diethyl phthalate	ND	280	ug/Kg	07/11/12	DD	SW 8270
Dimethylphthalate	ND	280	ug/Kg	07/11/12	DD	SW 8270
Di-n-butylphthalate	ND	280	ug/Kg	07/11/12	DD	SW 8270
Di-n-octylphthalate	ND	280	ug/Kg	07/11/12	DD	SW 8270
Fluoranthene	ND	280	ug/Kg	07/11/12	DD	SW 8270
Fluorene	ND	280	ug/Kg	07/11/12	DD	SW 8270
Hexachlorobenzene	ND	280	ug/Kg	07/11/12	DD	SW 8270
Hexachlorobutadiene	ND	280	ug/Kg	07/11/12	DD	SW 8270
Hexachlorocyclopentadiene	ND	280	ug/Kg	07/11/12	DD	SW 8270
Hexachloroethane	ND	280	ug/Kg	07/11/12	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	280	ug/Kg	07/11/12	DD	SW 8270
Isophorone	ND	280	ug/Kg	07/11/12	DD	SW 8270
Naphthalene	ND	280	ug/Kg	07/11/12	DD	SW 8270
Nitrobenzene	ND	280	ug/Kg	07/11/12	DD	SW 8270
N-Nitrosodimethylamine	ND	400	ug/Kg	07/11/12	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	280	ug/Kg	07/11/12	DD	SW 8270
N-Nitrosodiphenylamine	ND	400	ug/Kg	07/11/12	DD	SW 8270
Pentachloronitrobenzene	ND	400	ug/Kg	07/11/12	DD	SW 8270
Pentachlorophenol	ND	400	ug/Kg	07/11/12	DD	SW 8270
Phenanthrene	ND	280	ug/Kg	07/11/12	DD	SW 8270
Phenol	ND	280	ug/Kg	07/11/12	DD	SW 8270
Pyrene	ND	280	ug/Kg	07/11/12	DD	SW 8270
Pyridine	ND	400	ug/Kg	07/11/12	DD	SW 8270
QA/QC Surrogates						
% 2,4,6-Tribromophenol	78		%	07/11/12	DD	15 - 130 %

Project ID: STAMFORD PEDESTRIAN RAILROAD BRIDGE

Client ID: GP-2 8-10 FT

Phoenix I.D.: BC08190

Parameter	Result	RL	Units	Date/Time	By	Reference
% 2-Fluorobiphenyl	64		%	07/11/12	DD	30 - 130 %
% 2-Fluorophenol	63		%	07/11/12	DD	15 - 130 %
% Nitrobenzene-d5	68		%	07/11/12	DD	30 - 130 %
% Phenol-d5	65		%	07/11/12	DD	15 - 130 %
% Terphenyl-d14	72		%	07/11/12	DD	30 - 130 %

RL=Reporting Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director

July 16, 2012

Reviewed and Released by: Maryam Taylor, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 16, 2012

FOR: Attn: Ms. Jane Witherell
Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:	CY	07/09/12	14:25
Location Code:	MAGU-DAS	Received by:	LB	07/10/12	14:50
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBC08188
Phoenix ID: BC08191

Project ID: STAMFORD PEDESTRIAN RAILROAD BRIDGE
Client ID: FB-1

Parameter	Result	RL	Units	Date/Time	By	Reference	
Silver	< 0.001	0.001	mg/L	07/11/12	LK	SW6010/E200.7	
Arsenic	< 0.004	0.004	mg/L	07/11/12	LK	SW6010/E200.7	
Barium	0.005	0.002	mg/L	07/11/12	LK	SW6010/E200.7	
Cadmium	< 0.001	0.001	mg/L	07/11/12	LK	SW6010/E200.7	
Chromium	< 0.001	0.001	mg/L	07/11/12	LK	SW6010/E200.7	
Mercury	< 0.0002	0.0002	mg/L	07/11/12	RS	SW7470/245.1	
Lead	< 0.002	0.002	mg/L	07/11/12	LK	SW6010/E200.7	B
Selenium	< 0.010	0.010	mg/L	07/11/12	LK	SW6010/E200.7	
Extraction of CT ETPH	Completed			07/10/12	F/K/D	3510/3520	
Mercury Digestion	Completed			07/11/12	X/X	SW7470/245.1	
PCB Extraction	Completed				L	SW3510C	
Extraction for Pest (2 Liter)	Completed			07/10/12	L	SW3510	
Semi-Volatile Extraction	Completed			07/11/12	F/K	SW3520	
Total Metals Digestion	Completed			07/10/12	ag		
Field Extraction	Completed			07/09/12	CY	SW5035	
TPH by GC (Extractable Products)							
Ext. Petroleum HC	0.12	0.070	mg/L	07/11/12	JRB	CTETPH/8015D	
Identification	**		mg/L	07/11/12	JRB	CTETPH/8015D	
QA/QC Surrogates							
% n-Pentacosane	71		%	07/11/12	JRB	50 - 150 %	
Polychlorinated Biphenyls							
PCB-1016	ND	0.20	ug/L	07/11/12	AW	608/ 8082	
PCB-1221	ND	0.20	ug/L	07/11/12	AW	608/ 8082	
PCB-1232	ND	0.20	ug/L	07/11/12	AW	608/ 8082	
PCB-1242	ND	0.20	ug/L	07/11/12	AW	608/ 8082	
PCB-1248	ND	0.20	ug/L	07/11/12	AW	608/ 8082	
PCB-1254	ND	0.20	ug/L	07/11/12	AW	608/ 8082	

Parameter	Result	RL	Units	Date/Time	By	Reference	
PCB-1260	ND	0.20	ug/L	07/11/12	AW	608/ 8082	
PCB-1262	ND	0.20	ug/L	07/11/12	AW	608/ 8082	
PCB-1268	ND	0.20	ug/L	07/11/12	AW	608/ 8082	
QA/QC Surrogates							
% DCBP	426		%	07/11/12	AW	30 - 150 %	3
% TCMX	391		%	07/11/12	AW	30 - 150 %	3
Pesticides							
4,4' -DDD	ND	0.1	ug/L	07/11/12	MH	SW8081	
4,4' -DDE	ND	0.1	ug/L	07/11/12	MH	SW8081	
4,4' -DDT	ND	0.1	ug/L	07/11/12	MH	SW8081	
a-BHC	ND	0.05	ug/L	07/11/12	MH	SW8081	
Alachlor	ND	0.1	ug/L	07/11/12	MH	SW8081	
Aldrin	ND	0.003	ug/L	07/11/12	MH	SW8081	
b-BHC	ND	0.01	ug/L	07/11/12	MH	SW8081	
Chlordane	ND	0.3	ug/L	07/11/12	MH	SW8081	
d-BHC	ND	0.05	ug/L	07/11/12	MH	SW8081	
Dieldrin	ND	0.002	ug/L	07/11/12	MH	SW8081	
Endosulfan I	ND	0.05	ug/L	07/11/12	MH	SW8081	
Endosulfan II	ND	0.1	ug/L	07/11/12	MH	SW8081	
Endosulfan Sulfate	ND	0.1	ug/L	07/11/12	MH	SW8081	
Endrin	ND	0.1	ug/L	07/11/12	MH	SW8081	
Endrin Aldehyde	ND	0.1	ug/L	07/11/12	MH	SW8081	
Endrin ketone	ND	0.1	ug/L	07/11/12	MH	SW8081	
g-BHC (Lindane)	ND	0.05	ug/L	07/11/12	MH	SW8081	
Heptachlor	ND	0.05	ug/L	07/11/12	MH	SW8081	
Heptachlor epoxide	ND	0.05	ug/L	07/11/12	MH	SW8081	
Methoxychlor	ND	0.2	ug/L	07/11/12	MH	SW8081	
Toxaphene	ND	1.0	ug/L	07/11/12	MH	SW8081	
QA/QC Surrogates							
%DCBP (Surrogate Rec)	70		%	07/11/12	MH	30 - 150 %	
%TCMX (Surrogate Rec)	63		%	07/11/12	MH	30 - 150 %	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	07/11/12	H/T	SW8260	
1,1,1-Trichloroethane	ND	1.0	ug/L	07/11/12	H/T	SW8260	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	07/11/12	H/T	SW8260	
1,1,2-Trichloroethane	ND	1.0	ug/L	07/11/12	H/T	SW8260	
1,1-Dichloroethane	ND	1.0	ug/L	07/11/12	H/T	SW8260	
1,1-Dichloroethene	ND	1.0	ug/L	07/11/12	H/T	SW8260	
1,1-Dichloropropene	ND	1.0	ug/L	07/11/12	H/T	SW8260	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	07/11/12	H/T	SW8260	
1,2,3-Trichloropropane	ND	1.0	ug/L	07/11/12	H/T	SW8260	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	07/11/12	H/T	SW8260	
1,2,4-Trimethylbenzene	ND	1.0	ug/L	07/11/12	H/T	SW8260	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	07/11/12	H/T	SW8260	
1,2-Dibromoethane	ND	1.0	ug/L	07/11/12	H/T	SW8260	
1,2-Dichlorobenzene	ND	1.0	ug/L	07/11/12	H/T	SW8260	
1,2-Dichloroethane	ND	0.60	ug/L	07/11/12	H/T	SW8260	
1,2-Dichloropropane	ND	1.0	ug/L	07/11/12	H/T	SW8260	
1,3,5-Trimethylbenzene	ND	1.0	ug/L	07/11/12	H/T	SW8260	

Project ID: STAMFORD PEDESTRIAN RAILROAD BRIDGE
Client ID: FB-1

Phoenix I.D.: BC08191

Parameter	Result	RL	Units	Date/Time	By	Reference
1,3-Dichlorobenzene	ND	1.0	ug/L	07/11/12	H/T	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	07/11/12	H/T	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	07/11/12	H/T	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	07/11/12	H/T	SW8260
2-Chlorotoluene	ND	1.0	ug/L	07/11/12	H/T	SW8260
2-Hexanone	ND	5.0	ug/L	07/11/12	H/T	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	07/11/12	H/T	SW8260
4-Chlorotoluene	ND	1.0	ug/L	07/11/12	H/T	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	07/11/12	H/T	SW8260
Acetone	ND	25	ug/L	07/11/12	H/T	SW8260
Acrylonitrile	ND	5.0	ug/L	07/11/12	H/T	SW8260
Benzene	ND	0.70	ug/L	07/11/12	H/T	SW8260
Bromobenzene	ND	1.0	ug/L	07/11/12	H/T	SW8260
Bromochloromethane	ND	1.0	ug/L	07/11/12	H/T	SW8260
Bromodichloromethane	ND	0.50	ug/L	07/11/12	H/T	SW8260
Bromoform	ND	1.0	ug/L	07/11/12	H/T	SW8260
Bromomethane	ND	1.0	ug/L	07/11/12	H/T	SW8260
Carbon Disulfide	ND	5.0	ug/L	07/11/12	H/T	SW8260
Carbon tetrachloride	ND	1.0	ug/L	07/11/12	H/T	SW8260
Chlorobenzene	ND	1.0	ug/L	07/11/12	H/T	SW8260
Chloroethane	ND	1.0	ug/L	07/11/12	H/T	SW8260
Chloroform	ND	1.0	ug/L	07/11/12	H/T	SW8260
Chloromethane	ND	1.0	ug/L	07/11/12	H/T	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	07/11/12	H/T	SW8260
cis-1,3-Dichloropropene	ND	0.50	ug/L	07/11/12	H/T	SW8260
Dibromochloromethane	ND	0.50	ug/L	07/11/12	H/T	SW8260
Dibromomethane	ND	1.0	ug/L	07/11/12	H/T	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	07/11/12	H/T	SW8260
Ethylbenzene	ND	1.0	ug/L	07/11/12	H/T	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	07/11/12	H/T	SW8260
Isopropylbenzene	ND	1.0	ug/L	07/11/12	H/T	SW8260
m&p-Xylene	ND	1.0	ug/L	07/11/12	H/T	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	07/11/12	H/T	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	07/11/12	H/T	SW8260
Methylene chloride	ND	1.0	ug/L	07/11/12	H/T	SW8260
Naphthalene	ND	1.0	ug/L	07/11/12	H/T	SW8260
n-Butylbenzene	ND	1.0	ug/L	07/11/12	H/T	SW8260
n-Propylbenzene	ND	1.0	ug/L	07/11/12	H/T	SW8260
o-Xylene	ND	1.0	ug/L	07/11/12	H/T	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	07/11/12	H/T	SW8260
sec-Butylbenzene	ND	1.0	ug/L	07/11/12	H/T	SW8260
Styrene	ND	1.0	ug/L	07/11/12	H/T	SW8260
tert-Butylbenzene	ND	1.0	ug/L	07/11/12	H/T	SW8260
Tetrachloroethene	ND	1.0	ug/L	07/11/12	H/T	SW8260
Tetrahydrofuran (THF)	ND	5.0	ug/L	07/11/12	H/T	SW8260
Toluene	ND	1.0	ug/L	07/11/12	H/T	SW8260
Total Xylenes	ND	1.0	ug/L	07/11/12	H/T	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	07/11/12	H/T	SW8260
trans-1,3-Dichloropropene	ND	0.50	ug/L	07/11/12	H/T	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	07/11/12	H/T	SW8260

Parameter	Result	RL	Units	Date/Time	By	Reference
Trichloroethene	ND	1.0	ug/L	07/11/12	H/T	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	07/11/12	H/T	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	07/11/12	H/T	SW8260
Vinyl chloride	ND	1.0	ug/L	07/11/12	H/T	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	102		%	07/11/12	H/T	70 - 130 %
% Bromofluorobenzene	93		%	07/11/12	H/T	70 - 130 %
% Dibromofluoromethane	98		%	07/11/12	H/T	70 - 130 %
% Toluene-d8	99		%	07/11/12	H/T	70 - 130 %
Semivolatiles						
1,2,4-Trichlorobenzene	ND	5.0	ug/L	07/13/12	DD	SW8270
1,2-Dichlorobenzene	ND	5.0	ug/L	07/13/12	DD	SW8270
1,3-Dichlorobenzene	ND	5.0	ug/L	07/13/12	DD	SW8270
1,4-Dichlorobenzene	ND	5.0	ug/L	07/13/12	DD	SW8270
2,4,5-Trichlorophenol	ND	10	ug/L	07/13/12	DD	SW8270
2,4,6-Trichlorophenol	ND	10	ug/L	07/13/12	DD	SW8270
2,4-Dichlorophenol	ND	10	ug/L	07/13/12	DD	SW8270
2,4-Dimethylphenol	ND	10	ug/L	07/13/12	DD	SW8270
2,4-Dinitrophenol	ND	50	ug/L	07/13/12	DD	SW8270
2,4-Dinitrotoluene	ND	5.0	ug/L	07/13/12	DD	SW8270
2,6-Dinitrotoluene	ND	5.0	ug/L	07/13/12	DD	SW8270
2-Chloronaphthalene	ND	5.0	ug/L	07/13/12	DD	SW8270
2-Chlorophenol	ND	10	ug/L	07/13/12	DD	SW8270
2-Methylnaphthalene	ND	5.0	ug/L	07/13/12	DD	SW8270
2-Methylphenol (o-cresol)	ND	10	ug/L	07/13/12	DD	SW8270
2-Nitroaniline	ND	50	ug/L	07/13/12	DD	SW8270
2-Nitrophenol	ND	10	ug/L	07/13/12	DD	SW8270
3&4-Methylphenol (m&p-cresol)	ND	10	ug/L	07/13/12	DD	SW8270
3,3'-Dichlorobenzidine	ND	50	ug/L	07/13/12	DD	SW8270
3-Nitroaniline	ND	50	ug/L	07/13/12	DD	SW8270
4,6-Dinitro-2-methylphenol	ND	50	ug/L	07/13/12	DD	SW8270
4-Bromophenyl phenyl ether	ND	5.0	ug/L	07/13/12	DD	SW8270
4-Chloro-3-methylphenol	ND	20	ug/L	07/13/12	DD	SW8270
4-Chloroaniline	ND	20	ug/L	07/13/12	DD	SW8270
4-Chlorophenyl phenyl ether	ND	5.0	ug/L	07/13/12	DD	SW8270
4-Nitroaniline	ND	20	ug/L	07/13/12	DD	SW8270
4-Nitrophenol	ND	50	ug/L	07/13/12	DD	SW8270
Acetophenone	ND	5.0	ug/L	07/13/12	DD	SW8270
Aniline	ND	10	ug/L	07/13/12	DD	SW8270
Anthracene	ND	5.0	ug/L	07/13/12	DD	SW8270
Azobenzene	ND	5.0	ug/L	07/13/12	DD	SW8270
Benzidine	ND	50	ug/L	07/13/12	DD	SW8270
Benzoic acid	ND	50	ug/L	07/13/12	DD	SW8270
Benzyl butyl phthalate	ND	5.0	ug/L	07/13/12	DD	SW8270
Bis(2-chloroethoxy)methane	ND	5.0	ug/L	07/13/12	DD	SW8270
Bis(2-chloroethyl)ether	ND	5.0	ug/L	07/13/12	DD	SW8270
Bis(2-chloroisopropyl)ether	ND	5.0	ug/L	07/13/12	DD	SW8270
Carbazole	ND	5.0	ug/L	07/13/12	DD	SW8270
Dibenzofuran	ND	5.0	ug/L	07/13/12	DD	SW8270

Parameter	Result	RL	Units	Date/Time	By	Reference
Diethyl phthalate	ND	5.0	ug/L	07/13/12	DD	SW8270
Dimethylphthalate	ND	5.0	ug/L	07/13/12	DD	SW8270
Di-n-butylphthalate	ND	5.0	ug/L	07/13/12	DD	SW8270
Di-n-octylphthalate	ND	5.0	ug/L	07/13/12	DD	SW8270
Fluoranthene	ND	5.0	ug/L	07/13/12	DD	SW8270
Fluorene	ND	5.0	ug/L	07/13/12	DD	SW8270
Hexachlorobutadiene	ND	5.0	ug/L	07/13/12	DD	SW8270
Hexachlorocyclopentadiene	ND	5.0	ug/L	07/13/12	DD	SW8270
Isophorone	ND	5.0	ug/L	07/13/12	DD	SW8270
Naphthalene	ND	5.0	ug/L	07/13/12	DD	SW8270
Nitrobenzene	ND	5.0	ug/L	07/13/12	DD	SW8270
N-Nitrosodimethylamine	ND	5.0	ug/L	07/13/12	DD	SW8270
N-Nitrosodi-n-propylamine	ND	5.0	ug/L	07/13/12	DD	SW8270
N-Nitrosodiphenylamine	ND	5.0	ug/L	07/13/12	DD	SW8270
Phenol	ND	10	ug/L	07/13/12	DD	SW8270
Pyrene	ND	5.0	ug/L	07/13/12	DD	SW8270
QA/QC Surrogates						
% 2,4,6-Tribromophenol	98		%	07/13/12	DD	15 - 130 %
% 2-Fluorobiphenyl	81		%	07/13/12	DD	30 - 130 %
% 2-Fluorophenol	77		%	07/13/12	DD	15 - 130 %
% Nitrobenzene-d5	88		%	07/13/12	DD	30 - 130 %
% Phenol-d5	83		%	07/13/12	DD	15 - 130 %
% Terphenyl-d14	98		%	07/13/12	DD	30 - 130 %
Semivolatiles						
1,2,4,5-Tetrachlorobenzene	ND	1.6	ug/L	07/12/12	DD	SW8270 (SIM)
Acenaphthene	ND	0.050	ug/L	07/12/12	DD	SW8270 (SIM)
Acenaphthylene	ND	0.050	ug/L	07/12/12	DD	SW8270 (SIM)
Benz(a)anthracene	ND	0.040	ug/L	07/12/12	DD	SW8270 (SIM)
Benzo(a)pyrene	ND	0.050	ug/L	07/12/12	DD	SW8270 (SIM)
Benzo(b)fluoranthene	ND	0.050	ug/L	07/12/12	DD	SW8270 (SIM)
Benzo(ghi)perylene	ND	3.0	ug/L	07/12/12	DD	SW8270 (SIM)
Benzo(k)fluoranthene	ND	0.050	ug/L	07/12/12	DD	SW8270 (SIM)
Bis(2-ethylhexyl)phthalate	ND	1.6	ug/L	07/12/12	DD	SW8270 (SIM)
Chrysene	ND	0.050	ug/L	07/12/12	DD	SW8270 (SIM)
Dibenz(a,h)anthracene	ND	0.010	ug/L	07/12/12	DD	SW8270 (SIM)
Hexachlorobenzene	ND	0.060	ug/L	07/12/12	DD	SW8270 (SIM)
Hexachloroethane	ND	2.4	ug/L	07/12/12	DD	SW8270 (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.050	ug/L	07/12/12	DD	SW8270 (SIM)
Pentachloronitrobenzene	ND	0.10	ug/L	07/12/12	DD	SW8270 (SIM)
Pentachlorophenol	ND	0.80	ug/L	07/12/12	DD	SW8270 (SIM)
Phenanthrene	ND	0.050	ug/L	07/12/12	DD	SW8270 (SIM)
Pyridine	ND	0.50	ug/L	07/12/12	DD	SW8270 (SIM)
QA/QC Surrogates						
% 2,4,6-Tribromophenol	98		%	07/12/12	DD	15 - 130 %
% 2-Fluorobiphenyl	81		%	07/12/12	DD	30 - 130 %
% 2-Fluorophenol	77		%	07/12/12	DD	15 - 130 %
% Nitrobenzene-d5	88		%	07/12/12	DD	30 - 130 %
% Phenol-d5	83		%	07/12/12	DD	15 - 130 %
% Terphenyl-d14	98		%	07/12/12	DD	30 - 130 %

Project ID: STAMFORD PEDESTRIAN RAILROAD BRIDGE

Phoenix I.D.: BC08191

Client ID: FB-1

Parameter	Result	RL	Units	Date/Time	By	Reference

3 = This parameter exceeds laboratory specified limits.
B = Present in blank, no bias suspected.

RL=Reporting Level ND=Not Detected BRL=Below Reporting Level

Comments:

**Petroleum hydrocarbon chromatogram was not a perfect match with any of the standards,
but contains a distribution in the C9 to C24 range. The sample was quantitated against a C9-C36 standard.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

July 16, 2012

Reviewed and Released by: Maryam Taylor, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 16, 2012

FOR: Attn: Ms. Jane Witherell
Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CY	07/09/12	0:00
Location Code:	MAGU-DAS	Received by:	LB	07/10/12	14:50
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBC08188
Phoenix ID: BC08205

Project ID: STAMFORD PEDESTRIAN RAILROAD BRIDGE
Client ID: TB-LOW

Parameter	Result	RL	Units	Date/Time	By	Reference
Percent Solid	100	1	%			E160.3
Field Extraction	Completed			07/09/12	CY	SW5035
Volatiles						
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	07/12/12	R/J	SW8260
1,1,1-Trichloroethane	ND	5.0	ug/Kg	07/12/12	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	07/12/12	R/J	SW8260
1,1,2-Trichloroethane	ND	5.0	ug/Kg	07/12/12	R/J	SW8260
1,1-Dichloroethane	ND	5.0	ug/Kg	07/12/12	R/J	SW8260
1,1-Dichloroethene	ND	5.0	ug/Kg	07/12/12	R/J	SW8260
1,1-Dichloropropene	ND	5.0	ug/Kg	07/12/12	R/J	SW8260
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	07/12/12	R/J	SW8260
1,2,3-Trichloropropane	ND	5.0	ug/Kg	07/12/12	R/J	SW8260
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	07/12/12	R/J	SW8260
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	07/12/12	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	07/12/12	R/J	SW8260
1,2-Dibromoethane	ND	5.0	ug/Kg	07/12/12	R/J	SW8260
1,2-Dichlorobenzene	ND	5.0	ug/Kg	07/12/12	R/J	SW8260
1,2-Dichloroethane	ND	5.0	ug/Kg	07/12/12	R/J	SW8260
1,2-Dichloropropane	ND	5.0	ug/Kg	07/12/12	R/J	SW8260
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	07/12/12	R/J	SW8260
1,3-Dichlorobenzene	ND	5.0	ug/Kg	07/12/12	R/J	SW8260
1,3-Dichloropropane	ND	5.0	ug/Kg	07/12/12	R/J	SW8260
1,4-Dichlorobenzene	ND	5.0	ug/Kg	07/12/12	R/J	SW8260
2,2-Dichloropropane	ND	5.0	ug/Kg	07/12/12	R/J	SW8260
2-Chlorotoluene	ND	5.0	ug/Kg	07/12/12	R/J	SW8260
2-Hexanone	ND	25	ug/Kg	07/12/12	R/J	SW8260
2-Isopropyltoluene	ND	5.0	ug/Kg	07/12/12	R/J	SW8260
4-Chlorotoluene	ND	5.0	ug/Kg	07/12/12	R/J	SW8260

Project ID: STAMFORD PEDESTRIAN RAILROAD BRIDGE
Client ID: TB-LOW

Phoenix I.D.: BC08205

Parameter	Result	RL	Units	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	25	ug/Kg	07/12/12	R/J	SW8260
Acetone	ND	100	ug/Kg	07/12/12	R/J	SW8260
Acrylonitrile	ND	5.0	ug/Kg	07/12/12	R/J	SW8260
Benzene	ND	5.0	ug/Kg	07/12/12	R/J	SW8260
Bromobenzene	ND	5.0	ug/Kg	07/12/12	R/J	SW8260
Bromochloromethane	ND	5.0	ug/Kg	07/12/12	R/J	SW8260
Bromodichloromethane	ND	5.0	ug/Kg	07/12/12	R/J	SW8260
Bromoform	ND	5.0	ug/Kg	07/12/12	R/J	SW8260
Bromomethane	ND	5.0	ug/Kg	07/12/12	R/J	SW8260
Carbon Disulfide	ND	5.0	ug/Kg	07/12/12	R/J	SW8260
Carbon tetrachloride	ND	5.0	ug/Kg	07/12/12	R/J	SW8260
Chlorobenzene	ND	5.0	ug/Kg	07/12/12	R/J	SW8260
Chloroethane	ND	5.0	ug/Kg	07/12/12	R/J	SW8260
Chloroform	ND	5.0	ug/Kg	07/12/12	R/J	SW8260
Chloromethane	ND	5.0	ug/Kg	07/12/12	R/J	SW8260
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	07/12/12	R/J	SW8260
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	07/12/12	R/J	SW8260
Dibromochloromethane	ND	3.0	ug/Kg	07/12/12	R/J	SW8260
Dibromomethane	ND	5.0	ug/Kg	07/12/12	R/J	SW8260
Dichlorodifluoromethane	ND	5.0	ug/Kg	07/12/12	R/J	SW8260
Ethylbenzene	ND	5.0	ug/Kg	07/12/12	R/J	SW8260
Hexachlorobutadiene	ND	5.0	ug/Kg	07/12/12	R/J	SW8260
Isopropylbenzene	ND	5.0	ug/Kg	07/12/12	R/J	SW8260
m&p-Xylene	ND	5.0	ug/Kg	07/12/12	R/J	SW8260
Methyl Ethyl Ketone	ND	30	ug/Kg	07/12/12	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	07/12/12	R/J	SW8260
Methylene chloride	ND	5.0	ug/Kg	07/12/12	R/J	SW8260
Naphthalene	ND	5.0	ug/Kg	07/12/12	R/J	SW8260
n-Butylbenzene	ND	5.0	ug/Kg	07/12/12	R/J	SW8260
n-Propylbenzene	ND	5.0	ug/Kg	07/12/12	R/J	SW8260
o-Xylene	ND	5.0	ug/Kg	07/12/12	R/J	SW8260
p-Isopropyltoluene	ND	5.0	ug/Kg	07/12/12	R/J	SW8260
sec-Butylbenzene	ND	5.0	ug/Kg	07/12/12	R/J	SW8260
Styrene	ND	5.0	ug/Kg	07/12/12	R/J	SW8260
tert-Butylbenzene	ND	5.0	ug/Kg	07/12/12	R/J	SW8260
Tetrachloroethene	ND	5.0	ug/Kg	07/12/12	R/J	SW8260
Tetrahydrofuran (THF)	ND	10	ug/Kg	07/12/12	R/J	SW8260
Toluene	ND	5.0	ug/Kg	07/12/12	R/J	SW8260
Total Xylenes	ND	5.0	ug/Kg	07/12/12	R/J	SW8260
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	07/12/12	R/J	SW8260
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	07/12/12	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	07/12/12	R/J	SW8260
Trichloroethene	ND	5.0	ug/Kg	07/12/12	R/J	SW8260
Trichlorofluoromethane	ND	5.0	ug/Kg	07/12/12	R/J	SW8260
Trichlorotrifluoroethane	ND	5.0	ug/Kg	07/12/12	R/J	SW8260
Vinyl chloride	ND	5.0	ug/Kg	07/12/12	R/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	102		%	07/12/12	R/J	70 - 130 %
% Bromofluorobenzene	97		%	07/12/12	R/J	70 - 130 %
% Dibromofluoromethane	102		%	07/12/12	R/J	70 - 130 %

Project ID: STAMFORD PEDESTRIAN RAILROAD BRIDGE
Client ID: TB-LOW

Phoenix I.D.: BC08205

Parameter	Result	RL	Units	Date/Time	By	Reference
% Toluene-d8	100		%	07/12/12	R/J	70 - 130 %

RL=Reporting Level ND=Not Detected BRL=Below Reporting Level

Comments:

TRIP BLANK INCLUDED 100% SOLID ASSUMED

All soils and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
July 16, 2012
Reviewed and Released by: Maryam Taylor, Project Manager

PHOENIX

Environmental Laboratories, Inc.
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QA/QC Report

July 16, 2012

QA/QC Data

SDG I.D.: GBC08188

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 204369, QC Sample No: BC03817 (BC08191)												
ICP Metals - Aqueous												
Arsenic	BRL	<0.004	<0.004	NC	101	101	0.0	99.7	101	1.3	75 - 125	20
Barium	BRL	0.017	0.017	0	98.5	97.7	0.8	97.7	98.9	1.2	75 - 125	20
Cadmium	BRL	<0.001	<0.001	NC	98.9	98.9	0.0	98.7	101	2.3	75 - 125	20
Chromium	BRL	<0.001	<0.001	NC	98.5	98.3	0.2	97.2	99.0	1.8	75 - 125	20
Lead	0.002	<0.002	<0.002	NC	99.6	99.7	0.1	98.4	100	1.6	75 - 125	20
Selenium	BRL	<0.010	<0.010	NC	97.3	97.7	0.4	96.8	97.2	0.4	75 - 125	20
Silver	BRL	<0.002	0.001	NC	101	99.4	1.6	97.6	100	2.4	75 - 125	20
QA/QC Batch 204257, QC Sample No: BC06664 (BC08188, BC08189, BC08190)												
ICP Metals - SPLP Extraction												
Arsenic	BRL	0.006	0.005	NC	102	103	1.0	102	105	2.9	75 - 125	20
Barium	BRL	0.268	0.302	11.9	99.1	99.1	0.0	99.2	104	4.7	75 - 125	20
Cadmium	BRL	<0.005	<0.005	NC	105	105	0.0	104	106	1.9	75 - 125	20
Chromium	BRL	0.018	0.019	NC	100	99.9	0.1	99.1	102	2.9	75 - 125	20
Lead	BRL	1.04	1.16	10.9	104	103	1.0	105	113	7.3	75 - 125	20
Selenium	BRL	<0.020	<0.020	NC	100	107	6.8	104	106	1.9	75 - 125	20
Silver	BRL	<0.010	<0.010	NC	97.3	97.5	0.2	98.2	101	2.8	75 - 125	20
QA/QC Batch 204374, QC Sample No: BC07875 (BC08188, BC08189, BC08190)												
ICP Metals - Soil												
Arsenic	BRL	2.0	2.04	NC	109	108	0.9	101	99.9	1.1	75 - 125	30
Barium	BRL	28.2	25.9	8.50	107	103	3.8	112	110	1.8	75 - 125	30
Cadmium	BRL	<0.32	<0.32	NC	105	101	3.9	97.9	97.7	0.2	75 - 125	30
Chromium	BRL	8.85	6.59	29.3	104	103	1.0	100	102	2.0	75 - 125	30
Lead	BRL	3.68	3.22	13.3	105	102	2.9	99.0	98.5	0.5	75 - 125	30
Selenium	BRL	<1.3	<1.3	NC	98.9	97.1	1.8	92.2	91.3	1.0	75 - 125	30
Silver	BRL	<0.32	<0.32	NC	110	108	1.8	101	99.3	1.7	75 - 125	30
QA/QC Batch 204480, QC Sample No: BC07878 (BC08188, BC08189, BC08190)												
Mercury - Soil	BRL	<0.07	0.06	NC	109	107	1.9	102	103	1.0	70 - 130	30
Comment:												
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.												
QA/QC Batch 204482, QC Sample No: BC08191 (BC08188, BC08189, BC08190, BC08191)												
Mercury - Water	BRL	<0.0002	<0.0002	NC	95.1	97.3	2.3	93.8	95.6	1.9	70 - 130	20
Comment:												
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.												

PHOENIX

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QA/QC Report

July 16, 2012

QA/QC Data

SDG I.D.: GBC08188

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 204284, QC Sample No: BC07259 (BC08191)									
Pesticides - Water									
4,4' -DDD	ND	73	85	15.2				40 - 140	20
4,4' -DDE	ND	80	72	10.5				40 - 140	20
4,4' -DDT	ND	72	75	4.1				40 - 140	20
a-BHC	ND	77	80	3.8				40 - 140	20
a-Chlordane	ND	75	77	2.6				40 - 140	20
Alachlor	ND	N/A	N/A	NC				40 - 140	20
Aldrin	ND	48	60	22.2				40 - 140	20
b-BHC	ND	72	74	2.7				40 - 140	20
Chlordane	ND	N/A	N/A	NC				40 - 140	20
d-BHC	ND	71	76	6.8				40 - 140	20
Dieldrin	ND	74	75	1.3				40 - 140	20
Endosulfan I	ND	73	77	5.3				40 - 140	20
Endosulfan II	ND	72	79	9.3				40 - 140	20
Endosulfan sulfate	ND	75	78	3.9				40 - 140	20
Endrin	ND	93	89	4.4				40 - 140	20
Endrin aldehyde	ND	83	88	5.8				40 - 140	20
Endrin ketone	ND	74	79	6.5				40 - 140	20
g-BHC	ND	74	78	5.3				40 - 140	20
g-Chlordane	ND	70	73	4.2				40 - 140	20
Heptachlor	ND	64	70	9.0				40 - 140	20
Heptachlor epoxide	ND	67	71	5.8				40 - 140	20
Methoxychlor	ND	73	75	2.7				40 - 140	20
Toxaphene	ND	N/A	N/A	NC				40 - 140	20
% DCBP	70	70	75	6.9				30 - 150	20
% TCMX	67	70	73	4.2				30 - 150	20
QA/QC Batch 204513, QC Sample No: BC07760 (BC08191)									
Volatiles - Water									
1,1,1,2-Tetrachloroethane	ND	108	103	4.7	99	95	4.1	70 - 130	30
1,1,1-Trichloroethane	ND	97	95	2.1	94	88	6.6	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	96	95	1.0	99	95	4.1	70 - 130	30
1,1,2-Trichloroethane	ND	99	97	2.0	96	94	2.1	70 - 130	30
1,1-Dichloroethane	ND	97	98	1.0	98	92	6.3	70 - 130	30
1,1-Dichloroethene	ND	97	93	4.2	91	88	3.4	70 - 130	30
1,1-Dichloropropene	ND	99	90	9.5	95	87	8.8	70 - 130	30
1,2,3-Trichlorobenzene	ND	113	110	2.7	89	108	19.3	70 - 130	30
1,2,3-Trichloropropane	ND	92	94	2.2	94	92	2.2	70 - 130	30
1,2,4-Trichlorobenzene	ND	107	100	6.8	91	95	4.3	70 - 130	30
1,2,4-Trimethylbenzene	ND	104	99	4.9	96	90	6.5	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	108	103	4.7	101	106	4.8	70 - 130	30
1,2-Dibromoethane	ND	102	99	3.0	103	97	6.0	70 - 130	30
1,2-Dichlorobenzene	ND	98	95	3.1	95	90	5.4	70 - 130	30

QA/QC Data

SDG I.D.: GBC08188

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,2-Dichloroethane	ND	93	92	1.1	101	96	5.1	70 - 130	30	
1,2-Dichloropropane	ND	96	94	2.1	97	90	7.5	70 - 130	30	
1,3,5-Trimethylbenzene	ND	104	100	3.9	95	89	6.5	70 - 130	30	
1,3-Dichlorobenzene	ND	101	97	4.0	95	91	4.3	70 - 130	30	
1,3-Dichloropropane	ND	100	100	0.0	102	96	6.1	70 - 130	30	
1,4-Dichlorobenzene	ND	98	94	4.2	95	91	4.3	70 - 130	30	
2,2-Dichloropropane	ND	79	63	22.5	51	48	6.1	70 - 130	30	l,m
2-Chlorotoluene	ND	101	95	6.1	96	90	6.5	70 - 130	30	
2-Hexanone	ND	99	104	4.9	106	103	2.9	70 - 130	30	
2-Isopropyltoluene	ND	103	97	6.0	95	89	6.5	70 - 130	30	
4-Chlorotoluene	ND	96	96	0.0	94	87	7.7	70 - 130	30	
4-Methyl-2-pentanone	ND	90	96	6.5	106	100	5.8	70 - 130	30	
Acetone	ND	95	97	2.1	113	106	6.4	70 - 130	30	
Acrylonitrile	ND	89	102	13.6	101	103	2.0	70 - 130	30	
Benzene	ND	101	96	5.1	99	90	9.5	70 - 130	30	
Bromobenzene	ND	104	98	5.9	97	92	5.3	70 - 130	30	
Bromochloromethane	ND	97	96	1.0	100	95	5.1	70 - 130	30	
Bromodichloromethane	ND	97	95	2.1	97	93	4.2	70 - 130	30	
Bromoform	ND	103	99	4.0	93	95	2.1	70 - 130	30	
Bromomethane	ND	102	99	3.0	73	87	17.5	70 - 130	30	
Carbon Disulfide	ND	97	96	1.0	91	86	5.6	70 - 130	30	
Carbon tetrachloride	ND	98	91	7.4	90	88	2.2	70 - 130	30	
Chlorobenzene	ND	98	96	2.1	98	92	6.3	70 - 130	30	
Chloroethane	ND	95	96	1.0	96	91	5.3	70 - 130	30	
Chloroform	ND	95	96	1.0	97	91	6.4	70 - 130	30	
Chloromethane	ND	90	90	0.0	93	87	6.7	70 - 130	30	
cis-1,2-Dichloroethene	ND	99	97	2.0	101	93	8.2	70 - 130	30	
cis-1,3-Dichloropropene	ND	95	90	5.4	90	87	3.4	70 - 130	30	
Dibromochloromethane	ND	106	103	2.9	96	99	3.1	70 - 130	30	
Dibromomethane	ND	97	96	1.0	103	99	4.0	70 - 130	30	
Dichlorodifluoromethane	ND	87	81	7.1	79	81	2.5	70 - 130	30	
Ethylbenzene	ND	102	99	3.0	97	89	8.6	70 - 130	30	
Hexachlorobutadiene	ND	101	90	11.5	87	81	7.1	70 - 130	30	
Isopropylbenzene	ND	103	96	7.0	95	87	8.8	70 - 130	30	
m&p-Xylene	ND	102	98	4.0	98	91	7.4	70 - 130	30	
Methyl ethyl ketone	ND	89	94	5.5	109	101	7.6	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	95	94	1.1	108	102	5.7	70 - 130	30	
Methylene chloride	ND	91	90	1.1	94	89	5.5	70 - 130	30	
Naphthalene	ND	117	120	2.5	97	117	18.7	70 - 130	30	
n-Butylbenzene	ND	101	95	6.1	90	84	6.9	70 - 130	30	
n-Propylbenzene	ND	98	92	6.3	92	88	4.4	70 - 130	30	
o-Xylene	ND	103	99	4.0	101	92	9.3	70 - 130	30	
p-Isopropyltoluene	ND	106	99	6.8	93	86	7.8	70 - 130	30	
sec-Butylbenzene	ND	99	93	6.3	92	86	6.7	70 - 130	30	
Styrene	ND	104	101	2.9	102	95	7.1	70 - 130	30	
tert-Butylbenzene	ND	102	96	6.1	95	88	7.7	70 - 130	30	
Tetrachloroethene	ND	101	96	5.1	92	86	6.7	70 - 130	30	
Tetrahydrofuran (THF)	ND	90	100	10.5	99	94	5.2	70 - 130	30	
Toluene	ND	102	97	5.0	99	90	9.5	70 - 130	30	
trans-1,2-Dichloroethene	ND	97	95	2.1	95	89	6.5	70 - 130	30	
trans-1,3-Dichloropropene	ND	98	96	2.1	91	91	0.0	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	102	95	7.1	64	68	6.1	70 - 130	30	m
Trichloroethene	ND	102	96	6.1	98	89	9.6	70 - 130	30	

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Trichlorofluoromethane	ND	98	91	7.4	87	84	3.5	70 - 130	30	
Trichlorotrifluoroethane	ND	95	84	12.3	79	80	1.3	70 - 130	30	
Vinyl chloride	ND	95	94	1.1	93	88	5.5	70 - 130	30	
% 1,2-dichlorobenzene-d4	100	100	100	0.0	100	99	1.0	70 - 130	30	
% Bromofluorobenzene	91	101	104	2.9	102	104	1.9	70 - 130	30	
% Dibromofluoromethane	92	100	101	1.0	98	102	4.0	70 - 130	30	
% Toluene-d8	97	99	99	0.0	100	100	0.0	70 - 130	30	

Comment:

A blank MS/MSD was analyzed with this batch.

Additional 8260 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 204365, QC Sample No: BC07777 (BC08191)

Polychlorinated Biphenyls - Water

PCB-1016	ND	99	92	7.3				40 - 140	20	
PCB-1221	ND							40 - 140	20	
PCB-1232	ND							40 - 140	20	
PCB-1242	ND							40 - 140	20	
PCB-1248	ND							40 - 140	20	
PCB-1254	ND							40 - 140	20	
PCB-1260	ND	100	78	24.7				40 - 140	20	r
PCB-1262	ND							40 - 140	20	
PCB-1268	ND							40 - 140	20	
% DCBP (Surrogate Rec)	80	72	65	10.2				30 - 150	20	
% TCMX (Surrogate Rec)	79	82	85	3.6				30 - 150	20	

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

QA/QC Batch 204366, QC Sample No: BC07851 (BC08188, BC08189, BC08190)

Pesticides - Soil

4,4' -DDD	ND	61	78	24.5	78	80	2.5	40 - 140	30	
4,4' -DDE	ND	62	79	24.1	79	81	2.5	40 - 140	30	
4,4' -DDT	ND	61	77	23.2	77	79	2.6	40 - 140	30	
a-BHC	ND	67	86	24.8	84	87	3.5	40 - 140	30	
a-Chlordane	ND	62	79	24.1	78	80	2.5	40 - 140	30	
Alachlor	ND	N/A	N/A	NC	N/A	N/A	NC	40 - 140	30	
Aldrin	ND	65	83	24.3	81	84	3.6	40 - 140	30	
b-BHC	ND	63	79	22.5	79	83	4.9	40 - 140	30	
Chlordane	ND	N/A	N/A	NC	N/A	N/A	NC	40 - 140	30	
d-BHC	ND	63	82	26.2	80	83	3.7	40 - 140	30	
Dieldrin	ND	63	82	26.2	81	83	2.4	40 - 140	30	
Endosulfan I	ND	60	78	26.1	78	80	2.5	40 - 140	30	
Endosulfan II	ND	50	68	30.5	75	77	2.6	40 - 140	30	
Endosulfan sulfate	ND	58	74	24.2	78	80	2.5	40 - 140	30	
Endrin	ND	61	79	25.7	82	83	1.2	40 - 140	30	
Endrin aldehyde	ND	49	77	44.4	88	91	3.4	40 - 140	30	r
Endrin ketone	ND	62	78	22.9	78	80	2.5	40 - 140	30	
g-BHC	ND	66	84	24.0	83	85	2.4	40 - 140	30	
g-Chlordane	ND	60	77	24.8	75	78	3.9	40 - 140	30	
Heptachlor	ND	64	81	23.4	79	81	2.5	40 - 140	30	
Heptachlor epoxide	ND	63	81	25.0	80	83	3.7	40 - 140	30	
Methoxychlor	ND	57	73	24.6	75	76	1.3	40 - 140	30	
Toxaphene	ND	N/A	N/A	NC	N/A	N/A	NC	40 - 140	30	
% DCBP	73	61	73	17.9	72	73	1.4	30 - 150	30	

QA/QC Data

SDG I.D.: GBC08188

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
% TCMX	79	67	79	16.4	77	79	2.6	30 - 150	30	
QA/QC Batch 204712, QC Sample No: BC07942 (BC08188, BC08189, BC08190, BC08205)										
Volatiles - Soil										
1,1,1,2-Tetrachloroethane	ND	106	104	1.9	99	98	1.0	70 - 130	30	
1,1,1-Trichloroethane	ND	102	103	1.0	107	107	0.0	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	118	109	7.9	126	112	11.8	70 - 130	30	
1,1,2-Trichloroethane	ND	116	110	5.3	106	99	6.8	70 - 130	30	
1,1-Dichloroethane	ND	105	104	1.0	107	102	4.8	70 - 130	30	
1,1-Dichloroethene	ND	99	78	23.7	104	87	17.8	70 - 130	30	
1,1-Dichloropropene	ND	102	98	4.0	104	105	1.0	70 - 130	30	
1,2,3-Trichlorobenzene	ND	105	112	6.5	70	71	1.4	70 - 130	30	
1,2,3-Trichloropropane	ND	118	97	19.5	121	93	26.2	70 - 130	30	
1,2,4-Trichlorobenzene	ND	104	107	2.8	75	76	1.3	70 - 130	30	
1,2,4-Trimethylbenzene	ND	102	99	3.0	93	94	1.1	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	119	115	3.4	98	94	4.2	70 - 130	30	
1,2-Dibromoethane	ND	116	112	3.5	106	96	9.9	70 - 130	30	
1,2-Dichlorobenzene	ND	101	98	3.0	93	90	3.3	70 - 130	30	
1,2-Dichloroethane	ND	114	111	2.7	111	104	6.5	70 - 130	30	
1,2-Dichloropropane	ND	109	106	2.8	105	102	2.9	70 - 130	30	
1,3,5-Trimethylbenzene	ND	103	99	4.0	102	101	1.0	70 - 130	30	
1,3-Dichlorobenzene	ND	101	98	3.0	100	96	4.1	70 - 130	30	
1,3-Dichloropropane	ND	115	111	3.5	107	99	7.8	70 - 130	30	
1,4-Dichlorobenzene	ND	101	98	3.0	99	96	3.1	70 - 130	30	
2,2-Dichloropropane	ND	106	107	0.9	105	105	0.0	70 - 130	30	
2-Chlorotoluene	ND	98	95	3.1	100	100	0.0	70 - 130	30	
2-Hexanone	ND	113	104	8.3	47	42	11.2	70 - 130	30	m
2-Isopropyltoluene	ND	101	98	3.0	98	100	2.0	70 - 130	30	
4-Chlorotoluene	ND	98	95	3.1	100	100	0.0	70 - 130	30	
4-Methyl-2-pentanone	ND	123	116	5.9	89	78	13.2	70 - 130	30	
Acetone	ND	100	82	19.8	42	<40	NC	70 - 130	30	m
Acrylonitrile	ND	123	125	1.6	110	101	8.5	70 - 130	30	
Benzene	ND	105	102	2.9	102	102	0.0	70 - 130	30	
Bromobenzene	ND	102	97	5.0	100	97	3.0	70 - 130	30	
Bromochloromethane	ND	108	106	1.9	107	96	10.8	70 - 130	30	
Bromodichloromethane	ND	106	104	1.9	100	98	2.0	70 - 130	30	
Bromoform	ND	114	114	0.0	101	94	7.2	70 - 130	30	
Bromomethane	ND	74	74	0.0	82	79	3.7	70 - 130	30	
Carbon Disulfide	ND	102	81	23.0	103	85	19.1	70 - 130	30	
Carbon tetrachloride	ND	99	99	0.0	100	108	7.7	70 - 130	30	
Chlorobenzene	ND	101	99	2.0	102	100	2.0	70 - 130	30	
Chloroethane	ND	96	74	25.9	107	87	20.6	70 - 130	30	
Chloroform	ND	105	103	1.9	104	101	2.9	70 - 130	30	
Chloromethane	ND	92	91	1.1	111	110	0.9	70 - 130	30	
cis-1,2-Dichloroethene	ND	104	105	1.0	103	101	2.0	70 - 130	30	
cis-1,3-Dichloropropene	ND	109	107	1.9	100	97	3.0	70 - 130	30	
Dibromochloromethane	ND	109	108	0.9	101	97	4.0	70 - 130	30	
Dibromomethane	ND	113	108	4.5	107	98	8.8	70 - 130	30	
Dichlorodifluoromethane	ND	85	83	2.4	127	127	0.0	70 - 130	30	
Ethylbenzene	ND	101	100	1.0	98	98	0.0	70 - 130	30	
Hexachlorobutadiene	ND	95	103	8.1	88	94	6.6	70 - 130	30	
Isopropylbenzene	ND	99	96	3.1	103	107	3.8	70 - 130	30	
m&p-Xylene	ND	101	100	1.0	97	97	0.0	70 - 130	30	

QA/QC Data

SDG I.D.: GBC08188

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Methyl ethyl ketone	ND	92	90	2.2	54	46	16.0	70 - 130	30	m
Methyl t-butyl ether (MTBE)	ND	100	96	4.1	97	90	7.5	70 - 130	30	
Methylene chloride	ND	95	74	24.9	92	73	23.0	70 - 130	30	
Naphthalene	ND	109	127	15.3	55	72	26.8	70 - 130	30	m
n-Butylbenzene	ND	107	105	1.9	94	99	5.2	70 - 130	30	
n-Propylbenzene	ND	96	93	3.2	105	105	0.0	70 - 130	30	
o-Xylene	ND	101	101	0.0	99	98	1.0	70 - 130	30	
p-Isopropyltoluene	ND	107	104	2.8	88	92	4.4	70 - 130	30	
sec-Butylbenzene	ND	99	96	3.1	104	106	1.9	70 - 130	30	
Styrene	ND	106	102	3.8	73	76	4.0	70 - 130	30	
tert-Butylbenzene	ND	97	95	2.1	102	104	1.9	70 - 130	30	
Tetrachloroethene	ND	100	98	2.0	105	103	1.9	70 - 130	30	
Tetrahydrofuran (THF)	ND	121	115	5.1	112	92	19.6	70 - 130	30	
Toluene	ND	104	102	1.9	102	101	1.0	70 - 130	30	
trans-1,2-Dichloroethene	ND	97	96	1.0	103	99	4.0	70 - 130	30	
trans-1,3-Dichloropropene	ND	111	111	0.0	103	97	6.0	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	127	132	3.9	106	103	2.9	70 - 130	30	l
Trichloroethene	ND	99	98	1.0	96	94	2.1	70 - 130	30	
Trichlorofluoromethane	ND	103	91	12.4	105	93	12.1	70 - 130	30	
Trichlorotrifluoroethane	ND	103	81	23.9	108	90	18.2	70 - 130	30	
Vinyl chloride	ND	95	95	0.0	114	114	0.0	70 - 130	30	
% 1,2-dichlorobenzene-d4	102	102	101	1.0	102	100	2.0	70 - 130	30	
% Bromofluorobenzene	98	102	103	1.0	102	99	3.0	70 - 130	30	
% Dibromofluoromethane	105	107	105	1.9	104	100	3.9	70 - 130	30	
% Toluene-d8	101	102	102	0.0	102	100	2.0	70 - 130	30	

Comment:

Additional 8260 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 204372, QC Sample No: BC07969 (BC08188, BC08189, BC08190)

Semivolatiles - Soil

1,2,4,5-Tetrachlorobenzene	ND	48	46	4.3	53	51	3.8	30 - 130	30	
1,2,4-Trichlorobenzene	ND	66	64	3.1	75	74	1.3	30 - 130	30	
1,2-Dichlorobenzene	ND	65	64	1.6	75	75	0.0	30 - 130	30	
1,3-Dichlorobenzene	ND	61	62	1.6	71	72	1.4	30 - 130	30	
1,4-Dichlorobenzene	ND	65	66	1.5	76	75	1.3	30 - 130	30	
2,4,5-Trichlorophenol	ND	74	73	1.4	86	88	2.3	30 - 130	30	
2,4,6-Trichlorophenol	ND	72	72	0.0	85	88	3.5	30 - 130	30	
2,4-Dichlorophenol	ND	74	70	5.6	81	79	2.5	30 - 130	30	
2,4-Dimethylphenol	ND	45	43	4.5	48	48	0.0	30 - 130	30	
2,4-Dinitrophenol	ND	<5	<5	NC	12	9.7	21.2	30 - 130	30	l,m
2,4-Dinitrotoluene	ND	69	68	1.5	78	76	2.6	30 - 130	30	
2,6-Dinitrotoluene	ND	78	77	1.3	90	89	1.1	30 - 130	30	
2-Chloronaphthalene	ND	69	70	1.4	88	87	1.1	30 - 130	30	
2-Chlorophenol	ND	67	69	2.9	77	78	1.3	30 - 130	30	
2-Methylnaphthalene	ND	70	70	0.0	83	82	1.2	30 - 130	30	
2-Methylphenol (o-cresol)	ND	71	72	1.4	77	73	5.3	30 - 130	30	
2-Nitroaniline	ND	>150	>150	NC	>150	>150	NC	30 - 130	30	l,m
2-Nitrophenol	ND	69	70	1.4	86	83	3.6	30 - 130	30	
3&4-Methylphenol (m&p-cresol)	ND	76	79	3.9	87	84	3.5	30 - 130	30	
3,3'-Dichlorobenzidine	ND	53	52	1.9	49	52	5.9	30 - 130	30	
3-Nitroaniline	ND	>150	>150	NC	148	137	7.7	30 - 130	30	l,m
4,6-Dinitro-2-methylphenol	ND	40	41	2.5	63	44	35.5	30 - 130	30	r
4-Bromophenyl phenyl ether	ND	79	79	0.0	90	92	2.2	30 - 130	30	

QA/QC Data

SDG I.D.: GBC08188

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
4-Chloro-3-methylphenol	ND	80	76	5.1	86	86	0.0	30 - 130	30	
4-Chloroaniline	ND	110	108	1.8	88	86	2.3	30 - 130	30	
4-Chlorophenyl phenyl ether	ND	73	71	2.8	83	82	1.2	30 - 130	30	
4-Nitroaniline	ND	83	83	0.0	95	94	1.1	30 - 130	30	
4-Nitrophenol	ND	59	71	18.5	88	83	5.8	30 - 130	30	
Acenaphthene	ND	72	72	0.0	86	87	1.2	30 - 130	30	
Acenaphthylene	ND	74	74	0.0	91	89	2.2	30 - 130	30	
Acetophenone	ND	37	37	0.0	41	42	2.4	30 - 130	30	
Aniline	ND	40	42	4.9	35	35	0.0	30 - 130	30	
Anthracene	ND	74	74	0.0	86	87	1.2	30 - 130	30	
Azobenzene	ND	45	42	6.9	49	49	0.0	30 - 130	30	
Benz(a)anthracene	ND	73	71	2.8	87	86	1.2	30 - 130	30	
Benzidine	ND	<5	<5	NC	<5	<5	NC	30 - 130	30	l,m
Benzo(a)pyrene	ND	69	68	1.5	80	79	1.3	30 - 130	30	
Benzo(b)fluoranthene	ND	78	77	1.3	90	85	5.7	30 - 130	30	
Benzo(ghi)perylene	ND	70	71	1.4	99	92	7.3	30 - 130	30	
Benzo(k)fluoranthene	ND	77	79	2.6	78	80	2.5	30 - 130	30	
Benzyl butyl phthalate	ND	76	72	5.4	94	89	5.5	30 - 130	30	
Bis(2-chloroethoxy)methane	ND	75	74	1.3	86	83	3.6	30 - 130	30	
Bis(2-chloroethyl)ether	ND	70	72	2.8	85	89	4.6	30 - 130	30	
Bis(2-chloroisopropyl)ether	ND	80	83	3.7	92	88	4.4	30 - 130	30	
Bis(2-ethylhexyl)phthalate	ND	72	74	2.7	88	88	0.0	30 - 130	30	
Carbazole	ND	86	87	1.2	93	91	2.2	30 - 130	30	
Chrysene	ND	68	69	1.5	79	79	0.0	30 - 130	30	
Dibenz(a,h)anthracene	ND	72	72	0.0	100	99	1.0	30 - 130	30	
Dibenzofuran	ND	73	71	2.8	85	84	1.2	30 - 130	30	
Diethyl phthalate	ND	75	73	2.7	82	83	1.2	30 - 130	30	
Dimethylphthalate	ND	72	71	1.4	80	79	1.3	30 - 130	30	
Di-n-butylphthalate	ND	77	79	2.6	89	87	2.3	30 - 130	30	
Di-n-octylphthalate	ND	67	71	5.8	81	83	2.4	30 - 130	30	
Fluoranthene	ND	78	80	2.5	71	67	5.8	30 - 130	30	
Fluorene	ND	72	70	2.8	83	83	0.0	30 - 130	30	
Hexachlorobenzene	ND	74	80	7.8	90	94	4.3	30 - 130	30	
Hexachlorobutadiene	ND	73	68	7.1	83	82	1.2	30 - 130	30	
Hexachlorocyclopentadiene	ND	72	77	6.7	21	9.4	76.3	30 - 130	30	m,r
Hexachloroethane	ND	70	72	2.8	78	72	8.0	30 - 130	30	
Indeno(1,2,3-cd)pyrene	ND	71	71	0.0	99	97	2.0	30 - 130	30	
Isophorone	ND	80	79	1.3	87	87	0.0	30 - 130	30	
Naphthalene	ND	69	67	2.9	84	82	2.4	30 - 130	30	
Nitrobenzene	ND	76	76	0.0	86	85	1.2	30 - 130	30	
N-Nitrosodimethylamine	ND	55	57	3.6	69	73	5.6	30 - 130	30	
N-Nitrosodi-n-propylamine	ND	72	72	0.0	78	78	0.0	30 - 130	30	
N-Nitrosodiphenylamine	ND	84	80	4.9	93	93	0.0	30 - 130	30	
Pentachloronitrobenzene	ND	43	43	0.0	48	48	0.0	30 - 130	30	
Pentachlorophenol	ND	79	86	8.5	123	121	1.6	30 - 130	30	
Phenanthrene	ND	74	74	0.0	90	91	1.1	30 - 130	30	
Phenol	ND	72	75	4.1	89	88	1.1	30 - 130	30	
Pyrene	ND	79	81	2.5	68	66	3.0	30 - 130	30	
Pyridine	ND	28	32	13.3	33	34	3.0	30 - 130	30	l
% 2,4,6-Tribromophenol	99	88	90	2.2	106	108	1.9	15 - 130	30	
% 2-Fluorobiphenyl	73	63	64	1.6	76	76	0.0	30 - 130	30	
% 2-Fluorophenol	80	67	67	0.0	78	80	2.5	15 - 130	30	
% Nitrobenzene-d5	80	73	74	1.4	84	84	0.0	30 - 130	30	

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
% Phenol-d5	84	77	80	3.8	94	93	1.1	15 - 130	30
% Terphenyl-d14	88	83	85	2.4	73	71	2.8	30 - 130	30

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 204377, QC Sample No: BC08032 (BC08188, BC08189, BC08190)

TPH by GC (Extractable Products) - Soil

Ext. Petroleum HC	ND	76	73	4.0	96	93	3.2	50 - 150	30
% n-Pentacosane	75	79	76	3.9	90	98	8.5	50 - 150	30

QA/QC Batch 204453, QC Sample No: BC08156 (BC08191)

TPH by GC (Extractable Products) - Water

Ext. Petroleum HC	ND	63	62	1.6	63	62	1.6	50 - 150	20
% n-Pentacosane	76	81	81	0.0	78	75	3.9	50 - 150	20

QA/QC Batch 204442, QC Sample No: BC08644 (BC08188, BC08189, BC08190)

Polychlorinated Biphenyls - Soil

PCB-1016	ND	76	81	6.4	93	101	8.2	40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	73	78	6.6	92	97	5.3	40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	77	73	80	9.2	102	110	7.5	30 - 150	30
% TCMX (Surrogate Rec)	79	77	84	8.7	103	103	0.0	30 - 150	30

QA/QC Batch 204543, QC Sample No: BC08655 (BC08191)

Semivolatiles - Water

1,2,4,5-Tetrachlorobenzene	ND	50	50	0.0				30 - 130	20
1,2,4-Trichlorobenzene	ND	73	72	1.4				30 - 130	20
1,2-Dichlorobenzene	ND	73	73	0.0				30 - 130	20
1,3-Dichlorobenzene	ND	71	71	0.0				30 - 130	20
1,4-Dichlorobenzene	ND	72	71	1.4				30 - 130	20
2,4,5-Trichlorophenol	ND	77	72	6.7				30 - 130	20
2,4,6-Trichlorophenol	ND	75	76	1.3				30 - 130	20
2,4-Dichlorophenol	ND	78	78	0.0				30 - 130	20
2,4-Dimethylphenol	ND	49	49	0.0				30 - 130	20
2,4-Dinitrophenol	ND	57	50	13.1				30 - 130	20
2,4-Dinitrotoluene	ND	85	84	1.2				30 - 130	20
2,6-Dinitrotoluene	ND	82	81	1.2				30 - 130	20
2-Chloronaphthalene	ND	83	83	0.0				30 - 130	20
2-Chlorophenol	ND	71	70	1.4				30 - 130	20
2-Methylnaphthalene	ND	76	75	1.3				30 - 130	20
2-Methylphenol (o-cresol)	ND	67	68	1.5				30 - 130	20
2-Nitroaniline	ND	121	116	4.2				30 - 130	20
2-Nitrophenol	ND	80	78	2.5				30 - 130	20
3&4-Methylphenol (m&p-cresol)	ND	78	77	1.3				30 - 130	20
3,3'-Dichlorobenzidine	ND	N/A	N/A	NC				30 - 130	20
3-Nitroaniline	ND	74	75	1.3				30 - 130	20
4,6-Dinitro-2-methylphenol	ND	85	78	8.6				30 - 130	20
4-Bromophenyl phenyl ether	ND	81	82	1.2				30 - 130	20

QA/QC Data

SDG I.D.: GBC08188

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
4-Chloro-3-methylphenol	ND	85	84	1.2				30 - 130	20	
4-Chloroaniline	ND	67	62	7.8				30 - 130	20	
4-Chlorophenyl phenyl ether	ND	87	87	0.0				30 - 130	20	
4-Nitroaniline	ND	74	75	1.3				30 - 130	20	
4-Nitrophenol	ND	48	47	2.1				30 - 130	20	
Acenaphthene	ND	76	76	0.0				30 - 130	20	
Acenaphthylene	ND	42	42	0.0				30 - 130	20	
Acetophenone	ND	45	45	0.0				30 - 130	20	
Aniline	ND	N/A	N/A	NC				30 - 130	20	
Anthracene	ND	78	78	0.0				30 - 130	20	
Azobenzene	ND	29	29	0.0				30 - 130	20	I
Benz(a)anthracene	ND	74	75	1.3				30 - 130	20	
Benzidine	ND	N/A	N/A	NC				30 - 130	20	
Benzo(a)pyrene	ND	49	49	0.0				30 - 130	20	
Benzo(b)fluoranthene	ND	73	74	1.4				30 - 130	20	
Benzo(ghi)perylene	ND	58	58	0.0				30 - 130	20	
Benzo(k)fluoranthene	ND	69	68	1.5				30 - 130	20	
Benzoic acid	ND	N/A	N/A	NC				30 - 130	20	
Benzyl butyl phthalate	ND	47	46	2.2				30 - 130	20	
Bis(2-chloroethoxy)methane	ND	42	41	2.4				30 - 130	20	
Bis(2-chloroethyl)ether	ND	70	70	0.0				30 - 130	20	
Bis(2-chloroisopropyl)ether	ND	85	84	1.2				30 - 130	20	
Bis(2-ethylhexyl)phthalate	ND	76	76	0.0				30 - 130	20	
Carbazole	ND	75	77	2.6				30 - 130	20	
Chrysene	ND	80	80	0.0				30 - 130	20	
Dibenz(a,h)anthracene	ND	72	73	1.4				30 - 130	20	
Dibenzofuran	ND	85	85	0.0				30 - 130	20	
Diethyl phthalate	ND	74	74	0.0				30 - 130	20	
Dimethylphthalate	ND	71	71	0.0				30 - 130	20	
Di-n-butylphthalate	ND	73	73	0.0				30 - 130	20	
Di-n-octylphthalate	ND	71	71	0.0				30 - 130	20	
Fluoranthene	ND	80	79	1.3				30 - 130	20	
Fluorene	ND	87	87	0.0				30 - 130	20	
Hexachlorobenzene	ND	87	87	0.0				30 - 130	20	
Hexachlorobutadiene	ND	74	74	0.0				30 - 130	20	
Hexachlorocyclopentadiene	ND	28	27	3.6				30 - 130	20	I
Hexachloroethane	ND	74	74	0.0				30 - 130	20	
Indeno(1,2,3-cd)pyrene	ND	61	62	1.6				30 - 130	20	
Isophorone	ND	83	83	0.0				30 - 130	20	
Naphthalene	ND	78	78	0.0				30 - 130	20	
Nitrobenzene	ND	77	80	3.8				30 - 130	20	
N-Nitrosodimethylamine	ND	62	63	1.6				30 - 130	20	
N-Nitrosodi-n-propylamine	ND	89	89	0.0				30 - 130	20	
N-Nitrosodiphenylamine	ND	88	87	1.1				30 - 130	20	
Pentachloronitrobenzene	ND	47	47	0.0				30 - 130	20	
Pentachlorophenol	ND	45	43	4.5				30 - 130	20	
Phenanthrene	ND	87	86	1.2				30 - 130	20	
Phenol	ND	73	72	1.4				30 - 130	20	
Pyrene	ND	64	63	1.6				30 - 130	20	
Pyridine	ND	12	12	0.0				30 - 130	20	I
% 2,4,6-Tribromophenol	93	86	87	1.2				15 - 130	20	
% 2-Fluorobiphenyl	84	74	75	1.3				30 - 130	20	
% 2-Fluorophenol	70	58	58	0.0				15 - 130	20	

QA/QC Data

SDG I.D.: GBC08188

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
% Nitrobenzene-d5	84	74	74	0.0				30 - 130	20
% Phenol-d5	71	38	37	2.7				15 - 130	20
% Terphenyl-d14	101	79	77	2.6				30 - 130	20

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

l = This parameter is outside laboratory lcs/lcsd specified recovery limits.
m = This parameter is outside laboratory ms/msd specified recovery limits.
r = This parameter is outside laboratory rpd specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller, Laboratory Director
July 16, 2012

Sample Criteria Exceedences Report

GBC08188

Requested Criteria: GBM, RC

State: CT

SampNo	LocCode	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BC08188	MAGU-DAS	$8270-SMR	Pyridine	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	ND	360	140	140	ug/Kg
BC08188	MAGU-DAS	$8270-SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	1600	250	1000	1000	ug/Kg
BC08188	MAGU-DAS	$8270-SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/kg)	1600	250	1000	1000	ug/Kg
BC08188	MAGU-DAS	$8270-SMR	Chrysene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	1400	250	1000	1000	ug/Kg
BC08188	MAGU-DAS	$8270-SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	2200	250	1000	1000	ug/Kg
BC08188	MAGU-DAS	$8270-SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/kg)	2200	250	1000	1000	ug/Kg
BC08188	MAGU-DAS	$8270-SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	1200	250	1000	1000	ug/Kg
BC08188	MAGU-DAS	$8270-SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/kg)	1200	250	1000	1000	ug/Kg
BC08189	MAGU-DAS	$8270-SMR	Pyridine	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	ND	410	140	140	ug/Kg
BC08190	MAGU-DAS	$8270-SMR	Pyridine	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	ND	400	140	140	ug/Kg

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Reasonable Confidence Protocol
Laboratory Analysis QA/QC Certification Form

Laboratory Name: Phoenix Environmental Labs, Inc. **Client:** MAGU-DAS

Project Location: STAMFORD PEDESTRIAN RAIL **Project Number:**

Laboratory Sample ID(s): BC08188, BC08189, BC08190, BC08191, BC08192, BC08205

Sampling Date(s): 7/9/2012

RCP Methods Used:

☑ 1311/1312	☑ 6010	☐ 7000	☐ 7196	☑ 7470/7471	☑ 8081	☐ EPH	☐ TO15
☑ 8082	☐ 8151	☑ 8260	☑ 8270	☑ ETPH	☐ 9010/9012	☐ VPH	

1.	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1a.	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1b.	EPH and VPH methods only: Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	☐ Yes ☐ No ☑ NA
2.	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	☑ Yes ☐ No
3.	Were samples received at an appropriate temperature (< 6 Degrees C)?	☑ Yes ☐ No ☐ NA
4.	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents acheived? See Sections: PCB Narration, PEST Narration, SVOA Narration, VOA Narration.	☐ Yes ☑ No
5a.	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5b.	Were these reporting limits met?	☐ Yes ☑ No ☐ NA
6.	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No ☐ NA
7.	Are project-specific matrix spikes and laboratory duplicates included in the data set?	☑ Yes ☐ No ☐ NA

Note: For all questions to which the response was "No" (with the exception of question #5a, #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence".

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowlegde and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: _____

Date: Monday, July 16, 2012

Printed Name: Maryam Taylor

Position: Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

RCP Certification Report

July 16, 2012

SDG I.D.: GBC08188

The client requested a shorter list of elements than the 6010 RCP list.

8270 Semi-volatile Organics:
In order to achieve the requested reporting levels for the target compounds, the samples were extracted and analyzed via 8270 selective ion monitoring (SIM) as well as 8270 full scan.

Not all constituents met requested criteria due to the presence of target and non target compounds causing a necessary dilution.

BC08188 - The following analytes from the 6010 RCP Metals list were not reported: Antimony, Beryllium, Copper, Nickel, Thallium, Vanadium, Zinc.

BC08188 - The client requested a short list for 8270 RCP Semivolatile.

BC08189 - The following analytes from the 6010 RCP Metals list were not reported: Antimony, Beryllium, Copper, Nickel, Thallium, Vanadium, Zinc.

BC08189 - The client requested a short list for 8270 RCP Semivolatile.

BC08190 - The following analytes from the 6010 RCP Metals list were not reported: Antimony, Beryllium, Copper, Nickel, Thallium, Vanadium, Zinc.

BC08190 - The client requested a short list for 8270 RCP Semivolatile.

BC08191 - The following analytes from the 6010 RCP Metals list were not reported: Antimony, Beryllium, Copper, Nickel, Thallium, Vanadium, Zinc.

BC08191 - The client requested a short list for 8270 RCP Semivolatile.

ETPH Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument: Au-fid1 07/11/12-1 (BC08190)

Initial Calibration (FID1 - ETPH_1) - The initial calibration curve was within method criteria and had a %RSD less than 30%.

The daily continuing calibration standard was within method criteria of +/- 30% RSD.

As per section 7.2.3, a discrimination check standard was run and contained the following outliers: None

Printed Name Jeff Bucko
Position: Chemist
Date: 7/11/2012

Instrument: Au-fid1 07/11/12-2 (BC08189)

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

RCP Certification Report

July 16, 2012

SDG I.D.: GBC08188

Initial Calibration (FID1 - ETPH_1) - The initial calibration curve was within method criteria and had a %RSD less than 30%.

The daily continuing calibration standard was within method criteria of +/- 30% RSD.

As per section 7.2.3, a discrimination check standard was run and contained the following outliers:C28, C30, C36

Printed Name Jeff Bucko
Position: Chemist
Date: 7/11/2012

Instrument: Au-xl1 07/11/12-1 (BC08191)

Initial Calibration (FIDXL1 ETPH_1) - The initial calibration curve was within method criteria and had a %RSD less than 30%.

The daily continuing calibration standard was within method criteria of +/- 30% RSD.

As per section 7.2.3, a discrimination check standard was run and contained the following outliers: None

Printed Name Jeff Bucko
Position: Chemist
Date: 7/11/2012

QC (Batch Specific)

---------- Sample No: BC08032, QA/QC Batch: 204377 ----------

All LCS recoveries were within 50 - 150 with the following exceptions: None.

All LCSD recoveries were within 50 - 150 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

---------- Sample No: BC08156, QA/QC Batch: 204453 ----------

All LCS recoveries were within 50 - 150 with the following exceptions: None.

All LCSD recoveries were within 50 - 150 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

Mercury Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument: Merlin 07/11/12-1 (BC08188, BC08189, BC08190, BC08191)

The method preparation blank contains all of the acids and reagents as the samples; the instrument blanks do not.
The initial calibration met all criteria including a standard run at or below the reporting level.
All calibration verification standards (ICV, CCV) met criteria.

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SDG I.D.: GBC08188

All calibration blank verification standards (ICB, CCB) met criteria.
The matrix spike sample is used to identify spectral interfernce for each batch of samples, if within 85-115%, no interference is observed and no further action is taken.

Printed Name Rick Schweitzer
Position: Chemist
Date: 7/11/2012

QC (Site Specific)

---------- Sample No: BC08191, QA/QC Batch: 204482 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

All MS recoveries were within 75 - 125 with the following exceptions: None.

All MSD recoveries were within 75 - 125 with the following exceptions: None.

All MS/MSD RPDs were less than 20% with the following exceptions: None.

A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.

QC (Batch Specific)

---------- Sample No: BC07878, QA/QC Batch: 204480 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.

ICP Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument: Icp10 07/10/12-1 (BC08188, BC08189, BC08190)

The initial calibration met criteria.
The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.
The continuing calibration blanks were less than the reporting level for the elements reported.
The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.

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SDG I.D.: GBC08188

Printed Name Laura Kinnin
Position: Chemist
Date: 7/10/2012

Instrument: Icp10 07/11/12-1 (BC08188, BC08189, BC08190)

The initial calibration met criteria.
The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.
The continuing calibration blanks were less than the reporting level for the elements reported.
The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.

Printed Name Laura Kinnin
Position: Chemist
Date: 7/11/2012

Instrument: Icp9 07/10/12-1 (BC08191)

The initial calibration met criteria.
The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.
The continuing calibration blanks were less than the reporting level for the elements reported.
The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.

Printed Name Laura Kinnin
Position: Chemist
Date: 7/10/2012

Instrument: Icp9 07/11/12-1 (BC08188, BC08189, BC08190, BC08191)

The initial calibration met criteria.
The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.
The continuing calibration blanks were less than the reporting level for the elements reported.
The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.

Printed Name Laura Kinnin
Position: Chemist
Date: 7/11/2012

Instrument: Icp9 07/12/12-1 (BC08188, BC08189, BC08190)

The initial calibration met criteria.
The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.
The continuing calibration blanks were less than the reporting level for the elements reported.
The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.

Printed Name Laura Kinnin
Position: Chemist
Date: 7/12/2012

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SDG I.D.: GBC08188

QC (Batch Specific)

---------- Sample No: BC03817, QA/QC Batch: 204369 ----------

All LCS recoveries were within 75 - 125 with the following exceptions: None.

All LCSD recoveries were within 75 - 125 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

---------- Sample No: BC06664, QA/QC Batch: 204257 ----------

All LCS recoveries were within 75 - 125 with the following exceptions: None.

All LCSD recoveries were within 75 - 125 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

---------- Sample No: BC07875, QA/QC Batch: 204374 ----------

All LCS recoveries were within 75 - 125 with the following exceptions: None.

All LCSD recoveries were within 75 - 125 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

PCB Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 204365 Samples (BC08191)----

The LCS/LCSD RPD for one or more analytes is above limits. These analytes were not detected. No variability is suspected. (PCB 1260)

Instrument: Au-ecd35 07/11/12-1 (BC08191)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 7/11/2012

Instrument: Au-ecd8 07/11/12-1 (BC08188, BC08189, BC08190)

8082 Narration:

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SDG I.D.: GBC08188

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 7/11/2012

QC Comments: QC Batch 04365 07/09/12 (BC08191)

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

QC (Batch Specific)

---------- Sample No: BC07777, QA/QC Batch: 204365 ----------

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

---------- Sample No: BC08644, QA/QC Batch: 204442 ----------

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

PEST Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 204284 Samples (BC08191)---

The LCS/LCSD RPD for one or more analytes was above limits. These analytes were not detected. No variability is suspected. (Aldrin)

QC Batch 204366 Samples (BC08188, BC08189, BC08190)---

The LCS/LCSD RPD for one or more analytes was above limits. These analytes were not detected. No variability is suspected. (Endrin Aldehyde)

Instrument: Au-ecd13 07/12/12-1 (BC08188)

8081 Narration:

Endrin and DDT breakdown was evaluated and is below 15%.

The initial calibration RSD for the compound list was less than 15% except for the following compounds: None

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The continuing calibration standards were within acceptance criteria except for the following compounds:None

Printed Name Michael Hahn
Position: Chemist
Date: 7/12/2012

Instrument: Au-ecd4 07/11/12-1 (BC08189, BC08190, BC08191)

8081 Narration:

Endrin and DDT breakdown was evaluated and is below 15%.

The initial calibration RSD for the compound list was less than 20% except for the following compounds: None

The continuing calibration standards were within acceptance criteria except for the following compounds: None

Printed Name Michael Hahn
Position: Chemist
Date: 7/11/2012

QC (Batch Specific)

---------- Sample No: BC07259, QA/QC Batch: 204284 ----------

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: Aldrin(22.2%)

---------- Sample No: BC07851, QA/QC Batch: 204366 ----------

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: Endrin aldehyde(44.4%)

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SDG I.D.: GBC08188

SVOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 204372 Samples (BC08188, BC08189, BC08190)----

The LCS and/or LCSD recovery for one or more analytes is below method criteria. A low bias for these analytes is likely. (2,4-Dinitrophenol, Benzidine)

The LCS and/or LCSD recovery for one or more analytes is below range. A low bias for these analytes is possible. (Pyridine)

The LCS and/or LCSD recovery for one or more analytes is above range. Thes analytes were not detected. No bias is suspected. (2-Nitroaniline, 3-Nitroaniline)

QC Batch 204543 Samples (BC08191)----

The LCS and/or LCSD recovery for one or more analytes is below range. A low bias for these analytes is possible. (Azobenzene, Hexachlorocyclopentadiene, Pyridine)

Instrument: Chem09 07/11/12-1 (BC08188)

The DDT breakdown and pentachlorophenol & benzidine peak tailing were not evaluated in the DFTPP tune.

Initial Calibration (Chem09/sv_0628):
Greater than 90% of the target compounds met calibration criteria with a RSD <20% or >0.99 correlation coefficient. The following compounds had RSDs >20% and <0.99 correlation coefficient: Hexachlorocyclopentadiene, 2,4-dinitrophenol, Pentachlorophenol

The following compounds failed to meet the minimum required response factor: None

Continuing Calibration:
Greater than 80% of target compounds met continuing calibration criteria with a %D <20. The following compunds had >20% difference from the initial calibration: Benzaldehyde, Benzoic Acid, 3-Nitroaniline, 2-Nitroaniline, Atrazine, Carbazole

Printed Name Damien Drobinski
Position: Chemist
Date: 7/11/2012

Instrument: Chem09 07/13/12-1 (BC08191)

The DDT breakdown and pentachlorophenol & benzidine peak tailing were not evaluated in the DFTPP tune.

Initial Calibration (Chem09/sv_0712):
Greater than 90% of the target compounds met calibration criteria with a RSD <20% or >0.99 correlation coefficient. The following compounds had RSDs >20% and <0.99 correlation coefficient: Hexachlorocyclopentadiene, 3,3'-dichlorobenzidine

The following compounds failed to meet the minimum required response factor: Hexachlorobenzene

Continuing Calibration:
Greater than 80% of target compounds met continuing calibration criteria with a %D <20. The following compunds had >20% difference from the initial calibration:

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SDG I.D.: GBC08188

Printed Name Damien Drobinski
Position: Chemist
Date: 7/13/2012

Instrument: Chem12 07/11/12-1 (BC08189, BC08190)

The DDT breakdown and pentachlorophenol & benzidine peak tailing were not evaluated in the DFTPP tune.

Initial Calibration (Chem12/SV_0710):

Greater than 90% of the target compounds met calibration criteria with a RSD <20% or >0.99 correlation coefficient. The following compounds had RSDs >20% and <0.99 correlation coefficient: Benzaldehyde, Atrazine, Carbazole

The following compounds failed to meet the minimum required response factor: 2-nitrophenol, Hexachlorobenzene, % 2,4,6-tribromophenol

Continuing Calibration:
Greater than 80% of target compounds met continuing calibration criteria with a %D <20. The following compounds had >20% difference from the initial calibration: Benzaldehyde, Benzyl Alcohol, Atrazine

Printed Name Damien Drobinski
Position: Chemist
Date: 7/11/2012

QC Comments: QC Batch 04543 07/11/12 (BC08191)

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

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SDG I.D.: GBC08188

QC (Batch Specific)

---------- Sample No: BC07969, QA/QC Batch: 204372 ----------

All LCS recoveries were within 30 - 130 with the following exceptions: 2,4-Dinitrophenol(<5%), 2-Nitroaniline(>150%), 3-Nitroaniline(>150%), Benzidine(<5%), Pyridine(28%)

All LCSD recoveries were within 30 - 130 with the following exceptions: 2,4-Dinitrophenol(<5%), 2-Nitroaniline(>150%), 3-Nitroaniline(>150%), Benzidine(<5%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

---------- Sample No: BC08655, QA/QC Batch: 204543 ----------

All LCS recoveries were within 30 - 130 with the following exceptions: Azobenzene(29%), Hexachlorocyclopentadiene(28%), Pyridine(12%)

All LCSD recoveries were within 30 - 130 with the following exceptions: Azobenzene(29%), Hexachlorocyclopentadiene(27%), Pyridine(12%)

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

SVOASIM Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument: Chem04 07/13/12-1 (BC08191)

The DDT breakdown and pentachlorophenol & benzidine peak tailing were not evaluated in the DFTPP tune.

In the event that lower detection levels were requested, the samples may have been analyzed by selective ion monitoring (SIM) mode.

If PAH/base neutral were requested, Phoenix utilized a method that contained a shortened list , so some of the compounds in the narrative may be non-applicable.

Initial Calibration (Chem04/SIM_0712):
Greater than 90% of the target compounds met calibration criteria with a RSD <20% or >0.99 correlation coefficient. The following compounds had RSDs >20% and <0.99 correlation coefficient: None

The following compounds failed to meet the minimum required response factor: None

Continuing Calibration:
Greater than 80% of target compounds met continuing calibraion criteria with a %D <20. The following compunds had >20% difference from the initial calibration: None.

Printed Name Damien Drobinski
Position: Chemist
Date: 7/13/2012

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July 16, 2012

SDG I.D.: GBC08188

QC Comments: QC Batch 04543 07/11/12 (BC08191)

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

VOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 204513 Samples (BC08191)----

The LCS and/or LCSD recovery for one or more analytes is below range. A slight low bias for these analytes is possible. (2,2-Dichloropropane)

QC Batch 204372 Samples (BC08188, BC08189, BC08190)----

The LCS and/or LCSD recovery for one or more analytes is above range. These analytes were not detected. No bias is suspected. trans-1,4-dichloro-2-butene)

Instrument: Chem02 07/10/12-2 (BC08191)

P-Side
Initial Calibration (RPP_0710):
All SPCCs, CCCs and >80% of target compounds met criteria except that the following compounds had %RSDs >20%: Bromoform, Trans-1,4-dichloro-2-butene

Continuing Calibration Verification:
All SPCCs, CCCs and >80% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the initial calibration.
The following compounds had % Deviations >30%: None.

Printed Name Tina Covensky
Position: Chemist
Date: 7/10/2012

Instrument: Chem03 07/12/12-1 (BC08188, BC08189, BC08190, BC08205)

Initial Calibration Verification (RCPS_0627):
>90% of target compounds met method criteria.
The following compounds had %RSDs >20%: Bromomethane, Acetone

Continuing Calibration Verification:
>80% of target compounds met method criteria. Internal standards were within the 50%-200% deviation from the initial calibration.
The following compounds had % Deviations >20%: None.

Printed Name Johanna Harrington
Position: Chemist
Date: 7/12/2012

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SDG I.D.: GBC08188

Instrument: Chem03 07/12/12-2 (BC08188)

Initial Calibration Verification (RCPS_0627):
>90% of target compounds met method criteria.
The following compounds had %RSDs >20%: Bromomethane, Acetone

Continuing Calibration Verification:
>80% of target compounds met method criteria. Internal standards were within the 50%-200% deviation from the initial calibration.
The following compounds had % Deviations >20%: Tetrahydrofuran (THF)

Printed Name Johanna Harrington
Position: Chemist
Date: 7/12/2012

QC Comments: QC Batch 04513 07/11/12 (BC08191)

A blank MS/MSD was analyzed with this batch.

QC (Batch Specific)

---------- Sample No: BC07760, QA/QC Batch: 204513 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: 2,2-Dichloropropane(63%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

---------- Sample No: BC07942, QA/QC Batch: 204712 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: trans-1,4-dichloro-2-butene(132%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional 8260 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is 40-160%.

w/C+IP

CHAIN OF CUSTODY RECORD

Temp 6° Pg 1 of 1

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Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Data Delivery:
☐ Fax #:
☒ Email: jwitherell@maguiregroup.co.

Customer: Maguire Group Inc.
Address: 2080 Silas Deane Hwy
Rocky Hill CT 06067

Project: Stamford - Pedestrian Railroad Bridge
Report to: Jane Witherell
Invoice to: DAS Contract - CTDOT c/o MOI

Project P.O:
Phone #: 860 229 9142
Fax #: 860 224 9147

Client Sample - Information - Identification

Sampler's Signature: Cindy Yf Date: 7-9-12

Matrix Code:
DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
SE=Sediment SL=Sludge S=Soil/Solid W=Wipe O=Other

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	VOCs 8260	SVOCs 8270	CT ETPH	Pest & PCBs 8081/8082	Total RCRA 8 Metals	SPLP RCRA 8 Metals						Soil VOA Vials (1 methanol / 2 H2O	GL Soil container (8)oz	GL Soil container ( )oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle
08188	GP-1 1'-3'	S	7-9-12	11:15am	X	X	X	X	X	X						1/2	2								
08189	GP-2 2'-4'	↓	↓	12:05pm	↓	↓	↓	↓	↓	X						1/2	2								
08190	GP-2 8'-10'	↓	↓	12:10pm	↓	↓	↓	↓	↓	X						1/2	2								
08191	FB-1	GW	↓	2:25pm	↓	↓	↓	↓	↓										3	5			1		
* 08192	TB-1	G	↓	-	↓											2									
08205	TB LOW																								

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	7/10/12	9:30
[signature]	T. Courtney	7/10/12	1450

Comments, Special Requirements or Regulations:
NO High TB Rcvd. (LB)

Turnaround:
☐ 1 Day*
☐ 2 Days*
☒ 3 Days*
☐ Standard
☐ Other
* SURCHARGE APPLIES

RI
☐ Direct Exposure (Residential)
☐ GW
☐ Other

CT
☒ RCP Cert
☐ GW Protection
☐ SW Protection
☐ GA Mobility
☒ GB Mobility
☒ Residential DEC
☐ I/C DEC
☐ Other

MA
☐ MCP Certification
☐ GW-1
☐ GW-2
☐ GW-3
☐ S-1
☐ S-2
☐ S-3
☐ MWRA eSMART
☐ Other

Data Format
☐ Excel
☒ PDF
☐ GIS/Key
☐ EQuIS
☐ Other

Data Package
☐ Tier II Checklist
☐ Full Data Package*
☒ Phoenix Std Report
☐ Other
* SURCHARGE APPLIES

State where samples were collected: CT