

City of Ithaca

Sample Summary
November 2008 Sediment Sampling
Cayuga Lake Tributaries & Flood Control Channel

ERM Project No. 0080140

January 2010

www.erm.com

**Environmental
Resources
Management**

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8 January 2010

VIA Email: mjpeache@gw.dec.state.ny.us

Ms. Mary Jane Peachey, P.E.
New York State Department of Environmental Conservation
615 Erie Boulevard West
Syracuse, New York 13204-2400



RE: Sample Summary
November 2008 Sediment Sampling
Cayuga Lake Tributaries and Flood Control Channel
ERM Project No. 0080140

Dear Mary Jane:

As requested at the meeting on 10 December 2009, Environmental Resources Management (ERM) is providing the results of the pre-dredging sediment sampling program conducted in November 2008.

The sampling was conducted between the 17th and 24th of November 2008 from a small barge provided and operated by Parratt-Wolff, Inc. of Syracuse, New York. Chemical analysis was conducted by Life Sciences Laboratories, Inc., and physical testing was conducted by PW Laboratories, Inc. All sampling and analysis was conducted according to the Workplan prepared by Ecologic dated 15 July 2008 and provided to the New York State Department of Environmental Conservation (NYSDEC) for review on August 2008. NYSDEC Staff provided written comments to the Workplan in a letter dated 15 September 2008. A copy of this letter and the Workplan - revised based on NYSDEC comments - is presented in Attachment A.

The purpose of the sampling was to characterize the chemical quality and physical characteristics of sediment present in the lower reaches of Cayuga Lake tributaries and Flood Control Channel. The data are needed to complete the planning and design phase of the City of Ithaca's initiative to dredge accumulated sediment from the southern tributaries to Cayuga Lake.

The chemical content of the sediments will, to a large degree, constrain the options for how dredged materials are managed during removal, dewatering/management and ultimate disposal. Physical characteristics of the sediment affect the selection of equipment, design of the dewatering facilities, and capacity of the site(s) selected for ultimate disposal.

The work was conducted in accordance with the NYSDEC guidance for evaluating the quality of dredge material in the *Technical and Operational Guidance Series (TOGS) 5.1.9 In-Water and Riparian Management of Sediment and Dredged Material* (NYSDEC 2004).

The physical results indicate the presence of a silty sand amenable to hydraulic dredging, the preferred dredging method. The chemical results indicate that all sediment (with the exception of two locations) are classified as Class A Sediment, as defined in the NYSDEC Guidance TOGS 5.1.9. Class A Sediment is defined as sediment with no appreciable contamination. Two samples contained minor exceedances for total polynuclear aromatic hydrocarbons (PAHs) resulting in a classification as Class B Sediment (defined as sediment with moderate contamination and potential chronic toxicity to aquatic life). Since the threat presented by Class B is aquatic and the dredging program is not considering "in water" disposal, it appears that all sediment are suitable for dredging and upland disposal.

A map showing the boring locations is presented in Attachment B and boring logs are presented in Attachment C. Tables showing the results of chemical and physical testing are presented in Attachment D and analytical reports are presented in Attachment E.

Please call me if you have any questions or comments.

Sincerely,



Edward Hinchey, P.G.
Principal

Attachments

ATTACHMENT A
Workplan

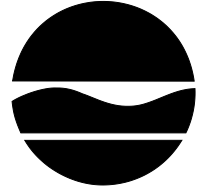
New York State Department of Environmental Conservation

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1285 Fisher Avenue, Cortland, New York 13045-1090

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Alexander B. Grannis
Commissioner

September 15, 2008

Elizabeth C. Moran, Ph.D.
EcoLogic - Aquatic, Terrestrial and Wetland Consultants
Atwell Mill Annex, Suite S-2
132 ½ Albany Street
Cazenovia, NY 13035

RE: City of Ithaca Dredging Initiative - Cayuga Inlet and Tributaries

Dear Ms. Moran:

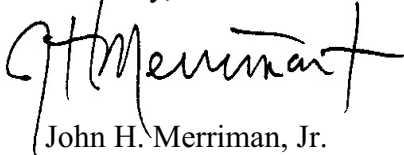
The Department has reviewed the sampling plan for the City of Ithaca Sediment Removal Project for Cayuga Inlet and tributaries and we have the following comments:

1. The samples should be collected within the proposed dredge locations so as to depict the concentrations of contaminants in the material that will be removed. Therefore, please provide a map of the proposed dredge sites and include the sediment sample locations within these proposed sites. Please also provide a calculation for the amount of sediment to be dredged from each of these sites.
2. If there are visible horizons in the sediment collected within each core, the sediment should not be homogenized. Visible horizons would include discernable changes in sediment type (sand/silt/clay) or distinct changes in color. If there are visible horizons, each different segment should be analyzed separately. If the material is homogeneous throughout the core, one homogenized sample representing the entire length of the core will be sufficient.
3. All samples should be analyzed for grain size and TOC.
4. Analytical laboratories must be ELAP certified for the parameters they are analyzing for at the time of analysis.
5. Results should be provided in a report that includes a discussion of the analytical results and how they compare to the categories in TOGS 5.1.9.

Elizabeth C. Moran, Ph.D.
September 15, 2008
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If you have any questions regarding the sampling plan, feel free to contact Karen Woodfield at 518-402-8196 or Diane English at 518-402-8195. If we can be of further assistance please contact me at the above address.

Sincerely,

A handwritten signature in black ink, appearing to read "JH Merriman". The signature is written in a cursive style with a large initial "JH" and a long horizontal stroke at the end.

John H. Merriman, Jr.
Deputy Regional Permit Administrator

cc: Ken Lynch
Jim Burke
Mary Jane Peachey
John Feltman
Karen Woodfield
Diane English

CITY OF ITHACA

Work Plan

Sediment Removal in the Cayuga Lake Tributary

Prepared by

EcoLogic, LLC

July 15, 2008

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Sediment Removal in the Cayuga Lake Tributary Work Plan

1. Introduction

This document outlines the scope of the field and laboratory effort to characterize the chemical quality and physical characteristics of sediments deposited in the lower reaches of tributaries to Cayuga Lake. Data are needed in order to complete the planning and design phase of the City of Ithaca's initiative to dredge accumulated sediment from the southern tributaries to Cayuga Lake. The chemical content of the sediments will, to a large degree, constrain the options for how dredged materials are handled during removal and ultimate disposal. Physical characteristics of the sediment affect the selection of equipment, design of the dewatering facilities, and capacity of the site(s) selected for ultimate disposal.

2. NY State guidance

The NYSDEC provides guidance for evaluating the quality of dredge material in the *Technical and Operational Guidance Series (TOGS) 5.1.9 In-Water and Riparian Management of Sediment and Dredged Material* (NYSDEC 2004). There are three classes of dredge material defined in TOGS 5.1.9 based on levels of contamination; the TOGS provides guidelines for the management of dredge material in each class.

- Class A is defined as sediment with no appreciable contamination
- Class B is defined as sediment with moderate contamination and potential chronic toxicity to aquatic life
- Class C is defined as sediment with a high level of contamination and potential acute toxicity to aquatic life.

The upper limits of the chemical content used to delineate the classes of sediment are presented in [Exhibit A](#), which summarizes relevant tables from the NYSDEC 2004 guidance document. When Class B or C sediment is expected, the NYSDEC guidance document calls for evaluating the proposed future sediment surface to verify that concentrations of chemicals of concern do not exceed the pre-dredging levels. That is, sediment testing must address the potential for exposing layers of sediment with higher concentrations of contaminants.

Both organic and inorganic chemicals are included on the NYSDEC guidance value list to differentiate Class A, B, and C sediments. Limits are identified based on the concentrations of benzene, certain heavy metals (arsenic, cadmium, copper, lead and mercury), pesticides (DDT compounds and dieldrin), PAHs and PCBs.

3. Review of existing data

NYSDEC collected and analyzed seven core samples of sediment deposited in four locations in the Cayuga Inlet ([Figure 1](#) and [Table 1](#)). These results, from 2003, indicate that Class B sediments may be present in the Inlet. Two locations, CL103 and CL104, exhibited copper and lead levels in the sediment in the low end of the Class B range. In addition, one sample of deeper sediment from site CL103 had a detectable concentration of one PCB congener (Aroclor 1254) and slightly exceeded the Class A threshold for total PCBs.

In 2008, O'Brien & Gere Engineers completed sampling and analysis of sediment deposited in the City's water supply reservoir on Sixmile Creek (the Sixty-Foot Reservoir). Six cores were collected. The concentrations of DDT compounds detected in the samples of sediment collected from the reservoir ranged from Class A to low Class B. The concentrations of DDT compounds in the reservoir were at the low end of ubiquitous levels detected by the NYSDEC in the Finger Lakes. The remainder of analyses (consisting of metals, BTEX, and PAHs) of sediment samples collected from the reservoir were Class A.

4. Project approach

The approach is summarized below:

- A depth finder and global positioning system (GPS) will be used at each sampling location to document overlying water depths and the location of the sediment surface.
- The number of required samples is based on the volume of material to be removed from the tributaries; this volume has not yet been finalized. Using Baldock's equation in NYSDEC TOGS 5.1.9, and assuming that approximately 500,000 cubic yards of material will be dredged, and that the average dredging depth is 12 ft. (4 yd), the surface area to be dredged is 125,000 square yd. This requires 14 samples. Sampling points will be arranged in a grid.
- The Sampling and Analysis Plan provides for the collection of 14 sediment cores advanced to a sediment depth of approximately 14 ft. The proposed dredging depth (e.g., the top 6 - 12 ft of the core, depending on the area) will be composited into a discrete analytical sample. In addition, samples of material below the proposed dredging depth will be collected at five of the 14 locations. These sites will be in locations considered most likely to exhibit Class B sediment quality, based on the 2003 results.
- Sediment samples will be analyzed for physical parameters to support dredging design. These physical parameters include moisture content, Atterberg Limits, TOC, grain size distribution, specific gravity, and USCS classification ([Table 2](#))
- Sediment samples will be analyzed for the following chemicals, per NYSDEC guidance: benzene, metals (arsenic, cadmium, copper, lead, zinc, and mercury), pesticides (DDT compounds, and dieldrin), PAHs, and PCBs ([Table 3](#))

5. Sampling and Analysis Plan

The Sampling and Analysis Plan consists of a sediment coring investigation and an environmental protection plan, as discussed below.

5.1 Sediment Coring Investigation

5.1.1 Sample Locations and Analyses

Sediment cores will be advanced at 14 locations shown in [Figure 2](#). Sample quantities, quality control samples, containers, preservation, and analytical methods are presented in [Table 4](#).

Chemical analyses will be completed by Life Sciences Laboratory in Syracuse NY. As specified in the NYSDEC guidance, 25% of the sample results will be reported as New York State Analytical Services Protocol (ASP) Category B deliverables to allow for data validation. Physical parameters will be analyzed by PWL Labs in Syracuse NY and reported according to the subject method requirements. A completed chain of custody form will accompany samples submitted for analysis.

5.1.2 Collection Procedures

Sediment coring will be completed by Parratt-Wolff using manual push core or conventional drilling and casing methods. The conventional drilling methods will provide the capability to obtain deep sediment cores. Upon collection, the sediment cores will be observed and visual descriptions of the sediment will be recorded in field logs. In particular, sediment cores will be observed for evidence of layering that might suggest different material types.

The Allan H. Treman State Marine Park will be used as the access point for launching the sampling vessel.

5.2 Environmental Protection Plan

Prior to working in the tributaries, the drilling contractor will inspect their equipment for leaks. In the event that leaks are present they will be repaired or the equipment replaced before the equipment is brought to the site. Once in the tributaries, potential spill sources consist of the engine for the cathead on the tripod and the engines for the float and support boat. The drilling contractor will have absorbent booms present to contain releases, if any. Refueling operations will be performed away from the tributaries. A representative from the project team will be on site during the entire operation to log the cores and provide inspection services.

6. Project reporting

A Technical Memorandum will be prepared following the completion of field activities and laboratory analyses to address the requirements of the Draft Environmental Impact Statement. The Technical Memorandum will identify the following:

- The physical characteristics of the dredge material provided by the results of investigation analyses.
- The chemical characteristics of the dredge material provided by results of analyses of sediment for TOGS 5.1.9 parameters
- Appropriate methods of dredging and handling will be discussed based on the physical and chemical characteristics of the material.

7. Subcontractors

Several subcontractors will be utilized for the project. This effort will be overseen by ERM, the engineering subcontractor to EcoLogic LLC.

- **Parratt-Wolff, Inc.** will provide the boat and drilling services for sediment coring activities
- **Life Sciences Laboratory** will analyze sediment samples for chemical parameters
- **PW Labs Inc.** will analyze sediment samples for physical parameters associated with dredging design

8. Project Schedule

The anticipated project schedule is presented below:

- Sediment coring activities will be completed in late summer 2008. It is anticipated that the sampling will be completed in 3 days.
- Laboratory analyses will be completed approximately 30 days after completion of field work.
- A Technical Memorandum, including dredge material characterization, will be completed approximately 15 days after receipt of the data validation results.

Tables

Table 1. Analytes detected in Cayuga Inlet sediment (sample date 8/12/2003) compared with TOGS 5.1.9 Sediment Quality Threshold Values.

Chemical Name	Location ID Sample Depth*			CLI01T	CLI01B	CLI02T	CLI02B	CLI03T	CLI03B	CLI04T
	Sediment Quality Threshold Values TOGS 5.1.9			0-104	104-134	0-50	50-62	0-111	111-121	0-67
	Class A	Class B	Class C							
<i>Metals (mg/kg)</i>										
Arsenic	<14(8.2)	(8.2)14 - 53	>53	4.6	0.3	6.8	5.4	5	6.6	4.6
Cadmium	<1.2	1.2 - 9.5	>9.5	0.23	0.42	0.18	0.2	0.43	0.45	0.39
Copper	<33	33 - 207(270)	>207(270)	26.8	29	22.7	24	38.7	33.2	35.1
Lead	<33(47)	33(47) - 166(218)	>166(218)	22.3	24.9	17.1	20.3	77.4	59.8	54.1
Mercury	<0.17	0.17 - 1.6(1.0)	>1.6(1.0)	na	na	na	na	na	na	na
<i>Petroleum-related compounds (mg/kg)</i>										
Benzene	<0.59	0.59 - 2.16	>2.16	na	na	na	na	na	na	na
Total BTEX	<0.96	0.96 - 5.9	>5.9	na	na	na	na	na	na	na
<i>PAHs (mg/kg)</i>										
Naphthalene	See Total PAHs			4.83 U	4.4 U	4.83 U	4.95 U	4.93 U	4.4 U	4.8 U
Acenaphthylene	See Total PAHs			5.82 U	5.3 U	5.71 U	5.95 U	5.83 U	5.3 U	5.75 U
Acenaphthene	See Total PAHs			4.03 U	4.4 U	4.83 U	4.08 U	4.93 U	4.4 U	4.8 U
Fluorene	See Total PAHs			0.57 U	0.519 U	0.55 U	0.673 U	0.571 U	0.519 U	0.588 U
Phenanthrene	See Total PAHs			1.75 U	1.69 U	1.72 U	1.76 U	1.75 U	1.59 U	8.2
Anthracene	See Total PAHs			1.79 U	1.63 U	1.76 U	1.8 U	1.7 U	1.63 U	1.78 U
Fluoranthene	See Total PAHs			0.57 U	0.618 U	0.68	0.573 U	1.2	1.2	4.9
Pyrene	See Total PAHs			0.733 U	0.667 U	0.716 U	0.737 U	0.734 U	0.54	1.4
Benzo(a)anthracene	See Total PAHs			0.053	0.036	0.056	0.045	0.16	0.14	0.47
Chrysene	See Total PAHs			0.407 U	0.371 U	0.3 U	0.4 U	0.408 U	0.371 U	0.34
Benzo(b)fluoranthene	See Total PAHs			0.066	0.0445	0.075	0.048	0.15	0.1	0.34
Benzo(k)fluoranthene	See Total PAHs			0.0448 U	0.0408 U	0.035	0.045 U	0.076	0.083	0.31
Benzo(a)pyrene	See Total PAHs			0.071	0.0566 U	0.0508 U	0.0514 U	0.2	0.28	0.65
Dibenzo(a,h)anthracene	See Total PAHs			0.0816 U	0.0741 U	0.0708 U	0.0818 U	0.0815 U	0.0742 U	0.0809 U
Benzo (g,h,i)perylene	See Total PAHs			0.206 U	0.169 U	0.203 U	0.209 U	0.206 U	0.108 U	0.2 U
Indeno(1,2,3-cd)pyrene	See Total PAHs			0.118 U	0.108 U	0.116 U	0.119 U	0.116 U	0.108 U	0.117 U

Chemical Name	Location ID Sample Depth*			CLI01T	CLI01B	CLI02T	CLI02B	CLI03T	CLI03B	CLI04T
	Sediment Quality Threshold Values TOGS 5.1.9			0-104	104-134	0-50	50-62	0-111	111-121	0-67
	Class A	Class B	Class C							
<i>Pesticides (mg/kg)</i>										
4,4'-DDE	See Sum of DDT+DDD+DDE			0.054 U	0.04 U	0.053 U	0.055 U	0.11 U	0.099 U	0.11 U
4,4'-DDD	See Sum of DDT+DDD+DDE			0.054 U	0.04 U	0.053 U	0.055 U	0.11 U	0.099 U	0.11 U
4,4'-DDT	See Sum of DDT+DDD+DDE			0.054 U	0.04 U	0.053 U	0.055 U	0.11 U	0.099 U	0.11 U
Mirex	<0.0014	0.0014 - 0.014	>0.014	na	na	na	na	na	na	na
Chlordane	<0.003	0.003 - 0.036	>0.036	na	na	na	na	na	na	na
Dieldrin	<0.11	0.11 - 0.48	>0.48	0.054 U	0.04 U	0.053 U	0.055 U	0.11 U	0.099 U	0.11 U
<i>Chlorinated hydrocarbons (mg/kg)</i>										
PCB-1016 (Aroclor 1016)	See Total PCBs			0.054 U	0.04 U	0.053 U	0.055 U	0.054 U	0.049 U	0.054 U
PCB-1221 (Aroclor 1221)	See Total PCBs			0.054 U	0.04 U	0.053 U	0.055 U	0.054 U	0.049 U	0.054 U
PCB-1232 (Aroclor 1232)	See Total PCBs			0.054 U	0.04 U	0.053 U	0.055 U	0.054 U	0.049 U	0.054 U
PCB-1242 (Aroclor 1242)	See Total PCBs			0.054 U	0.04 U	0.053 U	0.055 U	0.054 U	0.049 U	0.054 U
PCB-1248 (Aroclor 1248)	See Total PCBs			0.054 U	0.04 U	0.053 U	0.055 U	0.054 U	0.049 U	0.054 U
PCB-1254 (Aroclor 1254)	See Total PCBs			0.054 U	0.04 U	0.053 U	0.055 U	0.071	0.110	0.054 U
PCB-1260 (Aroclor 1260)	See Total PCBs			0.054 U	0.04 U	0.053 U	0.055 U	0.054 U	0.049 U	0.054 U
2,3,7,8-TCDD (sum of toxic equivalency)	<0.0000045	0.0000045 – 0.00005	>0.00005	na	na	na	na	na	na	na

Chemical Name	Location ID Sample Depth*			CLI01T	CLI01B	CLI02T	CLI02B	CLI03T	CLI03B	CLI04T
	Sediment Quality Threshold Values TOGS 5.1.9			0-104	104-134	0-50	50-62	0-111	111-121	0-67
	Class A	Class B	Class C							
Total PAHs (sum detected)	<4	4 - 35(45)	>35(45)	0.190	0.081	0.846	0.093	1.79	2.34	16.6
Sum of DDT+DDD+DDE	<0.003	0.003 - 0.03	>0.03	0.054 U	0.04 U	0.053 U	0.055 U	0.11 U	0.099 U	0.11 U
Total PCBs (sum detected)	<0.1	0.1 - 1	>1	0.054 U	0.04 U	0.053 U	0.055 U	0.071	0.110	0.054 U

Notes:

na - no data available

U - indicates analyte was not detected above the value shown.

* Sample depth units were not provided in the data source used for this table.

TOGS 5.1.9 = Sediment screening values for dredge material characterization obtained from *Technical & Operational Guidance Series 5.1.9, In-Water and Riparian Management of Sediment and Dredge Material* (TOGS 5.1.9: NYSDEC 2004).

Sediment classes defined by TOGS 5.1.9:

Class A = No toxicity to aquatic life. Dredging and in-water or riparian placement, at approved locations, can generally proceed.

Class B = Chronic Toxicity to aquatic life. Dredging and riparian placement may be conducted with several restrictions.

Class C = Acute Toxicity to aquatic life. Dredging and disposal requirements may be stringent; ensure that the dredged material is not a regulated hazardous waste material as defined in 6NYCRR Part 371.

Results in Class B range are in bold

Table 2. Physical tests for Dredging Design.

Physical Test	Test Method		Description
Natural Moisture Content	ASTM	D2216	Indicates the current physical state of the soil or sediment based on the results of the Atterberg Limits testing. A soil or sediment can be in brittle solid, solid, plastic, or liquid states. For fine grained soil or sediment, the natural moisture content is related to shear strength.
Atterberg Limits	ASTM	D4318	Evaluates the plastic limit, shrinkage limit, and liquid limit of the soil or sediment. The information is used to classify the soil or sediment, and can be used to predict the soil or sediment mineralogy.
Organic content, measured as total organic carbon (TOC)	USEPA	Lloyd Kahn	Evaluates the organic content of a soil or sediment as a predictor of the adsorptive capacity of the soil or sediment for hydrophobic compounds.
Grain size distribution	ASTM	D422/1140	Classifies soil or sediment as coarse grained or fine grained. Grain size distribution of coarse grained soil or sediment will correlate to friction angle, which is used to estimate the shear strength of the soil or sediment.
Specific Gravity	ASTM	D854	Provides an estimate of the ratio of the soil or sediment density to the density of water. Used to calculate other soil or sediment properties such as density, void ratio, degree of saturation.
USCS Classification	ASTM	D2487	Classifies soil or sediment according to grain size and plasticity. Correlates with engineering properties of the soil or sediment.

Table 3. Analytical methods and sample quantities for sediment analyses.

Sampling Section	Analysis	Laboratory	Analytical Method	Environ.		Quality Control			Total	Unit Cost	Cost	
				Locations	Samples	Dup	MS	MSD				
<i>Analytical Tests</i>												
	Benzene	LSL	USEPA	8260	14	19	2	2	2	25	\$ 80	\$ 2,000
	Pesticides: Dieldrin/DDT comp.	LSL	USEPA	3550/8081	14	19	2	2	2	25	\$ 160	\$ 4,000
	PCBs	LSL	USEPA	3550/8082	14	19	2	2	2	25	(inc. w/ pesticides cost)	
	PAHs	LSL	USEPA	8270	14	19	2	2	2	25	\$ 150	\$ 3,750
	Metals (As, Cd, Cu, Pb, and Zn)	LSL	USEPA	3050/6010	14	19	2	2	2	25	\$ 50	\$ 1,250
	Mercury	LSL	USEPA	7471	14	19	2	2	2	25	\$ 25	\$ 625
	Total Organic Carbon	Test Am.-Pit	USEPA	Lloyd Kahn	14	19	2	2	2	25	\$ 85	\$ 2,125
	Percent solids	LSL	ASTM	SM2540G	14	19	2	2	2	25	\$ 10	\$ 250
<i>Physical Tests</i>												
	Moisture Content	PW Labs	ASTM	D2216	7	7	0	0	0	7	\$ 7	\$ 49
	Atterberg Limits	PW Labs	ASTM	D4318	7	7	0	0	0	7	\$ 78	\$ 546
	Grain Size	PW Labs	ASTM	D422/1140	7	7	0	0	0	7	\$ 146	\$ 1,022
	Specific Gravity	PW Labs	ASTM	D854	7	7	0	0	0	7	\$ 55	\$ 385
	Classification	PW Labs	ASTM	D2487	7	7	0	0	0	7	\$ 5	\$ 35
										TOTAL	\$ 16,037	

Notes:

Pesticides (DDT, DDD, DDE, dieldrin); PCBs = polychlorinated biphenyls; PAHs = polycyclic aromatic hydrocarbons.

Metals: As = arsenic, Cd = cadmium, Cu = copper, Pb = lead, and Zn = zinc.

USEPA = United States Environmental Protection Agency; ASTM = American Society of Testing Materials.

Laboratories: LSL = Life Science Laboratories, Inc., Syracuse, NY; Test Am-Pit = Test America, Pittsburg, PA; PW Labs = PW Labs, Inc., Syracuse, NY.

A = Archive sample to be held for possible analysis based on results of other sediment analyses.

Table 4. Analytical method, sample containers, preservation, holding times, and QC sample frequencies.

Parameter (method)	Matrix	Sample containers and volumes	Preservation	Holding times	QC sample frequency			
					Field duplicate	Trip blank	MS/MSD /Spike Duplicate**	Field/ Equipment Blank***
Benzene Low Level* (USEPA Methods 5035/8000C/8260B) ¹	Solid	Encore sampler in accordance with USEPA Method 5035. Alternatively, 5 grams of sample in Encore sampler weighed in the field in pre-weighed vial with stir bar and a sodium bisulfate preservative solution	4°C	For Encore sampler, transferred to soil container within 48 hours from collection. If not transferred to soil container then 48 hours from collection for analysis. If transferred, analysis within 14 days from collection	One per 10 samples or one per matrix (for less than 10 samples)	1 per cooler containing samples for VOCs in water	One per 20 samples or one per matrix (for less than 20 samples)	One per sampling event as required.
Benzene Medium Level* (USEPA Methods 5035/8000C/8260B) ¹	Solid	One 40-ml pre-weighed glass vials with Teflon® lined septum caps. 5 grams of sample with methanol prepared in accordance with USEPA Method 5035	4°C	14 days from collection for analysis	One per 10 samples or one per matrix (for less than 10 samples)	1 per cooler containing samples for VOCs in water	One per 20 samples or one per matrix (for less than 20 samples)	One per sampling event as required.

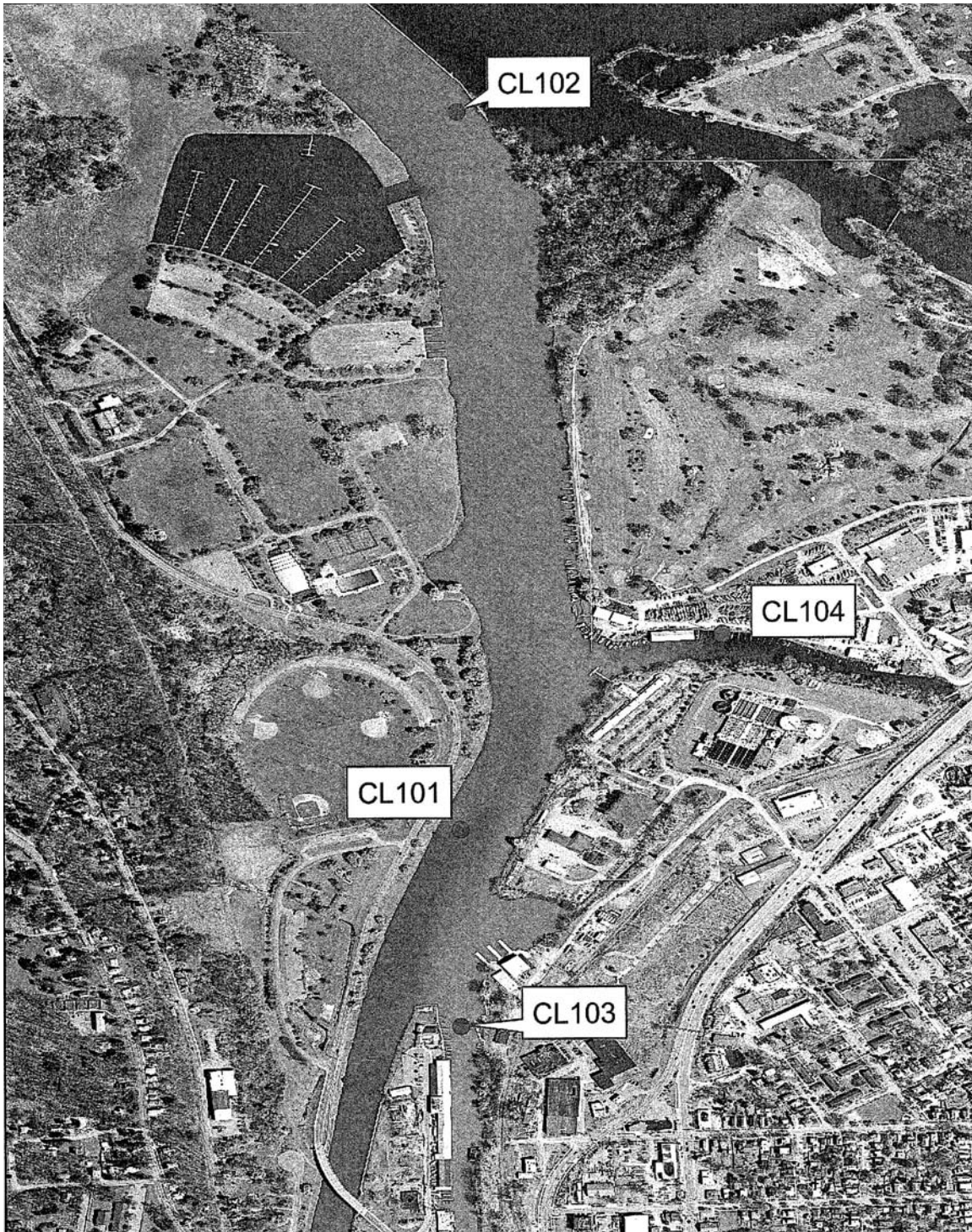
Parameter (method)	Matrix	Sample containers and volumes	Preservation	Holding times	QC sample frequency			
					Field duplicate	Trip blank	MS/MSD /Spike Duplicate**	Field/ Equipment Blank***
PAHs (USEPA Methods 3541/3550B/8000C/8270 C) ¹	Solid	250-ml wide mouth glass container with Teflon® lined lid. 100 grams sample volume required.	4°C	14 days from collection to extraction; 40 days from extraction to analysis	One per 10 samples or one per matrix (for less than 10 samples)	NA	One per 20 samples or one per matrix (for less than 20 samples)	One per sampling event as required.
DDT Compounds, Dieldrin (USEPA Methods 3541/3550B/8000C/8081 A) ¹	Solid	250-ml wide mouth glass container with Teflon® lined lid. 100 grams sample volume required.	4°C	14 days from collection to extraction; 40 days from extraction to analysis	One per 10 samples or one per matrix (for less than 10 samples)	NA	One per 20 samples or one per matrix (for less than 20 samples)	One per sampling event as required.
PCBs (USEPA Methods 3541/8000C/8082) ¹	Solid	250-ml wide mouth glass container with Teflon® lined lid. 100 grams sample volume required.	4°C	14 days from collection to extraction; 40 days from extraction to analysis	One per 10 samples or one per matrix (for less than 10 samples)	NA	One per 20 samples or one per matrix (for less than 20 samples)	One per sampling event as required.

Parameter (method)	Matrix	Sample containers and volumes	Preservation	Holding times	QC sample frequency			
					Field duplicate	Trip blank	MS/MSD /Spike Duplicate**	Field/ Equipment Blank***
Metals (USEPA Methods 3050B/6010B) ¹	Solid	125-ml wide mouth polyethylene or fluorocarbon (TFE or PFA) container. 100 grams sample volume required.	4°C	180 days from collection for analysis	One per 10 samples or one per matrix (for less than 10 samples)	NA	One per 20 samples or one per matrix (for less than 20 samples)	One per sampling event as required.
Mercury (USEPA Method 7471A) ¹	Solid	125-ml wide mouth polyethylene or fluorocarbon (TFE or PFA) container. 100 grams sample volume required.	4°C	28 days from collection for analysis	One per 10 samples or one per matrix (for less than 10 samples)	NA	One per 20 samples or one per matrix (for less than 20 samples)	One per sampling event as required.
TOC (USEPA Lloyd Kahn Method) ²	Solid	125-ml wide mouth glass container with Teflon® lined lid. 100 grams sample volume required.	4°C	14 days from collection for analysis	One per 10 samples or one per matrix (for less than 10 samples)	NA	One per 20 samples or one per matrix (for less than 20 samples)	One per sampling event as required.

Parameter (method)	Matrix	Sample containers and volumes	Preservation	Holding times	QC sample frequency			
					Field duplicate	Trip blank	MS/MSD /Spike Duplicate**	Field/ Equipment Blank***
Sulfide (USEPA Methods 9030B/9034) ¹	Solid	125-ml wide mouth glass container with Teflon® lined lid. 100 grams sample volume required.	4°C	7 days from collection for analysis	One per 10 samples or one per matrix (for less than 10 samples)	NA	One per 20 samples or one per matrix (for less than 20 samples)	One per sampling event as required.
Physical Parameters: Natural Moisture Content (ASTM D2216) Atterberg Limits (ASTM D4318) Grain size Distribution (ASTM D422/D1140) Specific Gravity (ASTM D854) USCS Classification (ASTM D2487)	Solid	1-gallon plastic bag, sealed.	None	NA	NA	NA	NA	NA

Figures

Figure 1
Sediment Removal in the Cayuga Lake Tributary
NYSDEC Sampling Locations, August 2003 Sampling Event



Note: Scale not provided with image.
Source: NYS DEC Region 7, fax dated April 17, 2008

Figure 2
Sediment Removal in the Cayuga Lake Tributary
Sediment Sampling Locations



0 500 1,000 2,000 3,000 4,000 Feet

Orthoimages taken April 2007, 0.5 ft. natural color. Downloaded from New York State GIS Clearinghouse July 15, 2008. (<http://www.nysgis.state.ny.us/>)



Exhibits

Exhibit A – TOGS 5.1.9 Screening Values and Sediment Management Options

Table 2 Sediment Quality Threshold Values for Dredging, Riparian or In-water Placement				
Threshold values are based on known and presumed impacts on aquatic organisms/ecosystem. Where fresh water and marine threshold values differ sufficiently, the marine value is presented in parentheses. All concentrations are in mg/kg dry weight.				
Compound	Class A	Class B	Class C	Derivation Code
Metals (mg/kg)				
Arsenic	< 14 (8.2)	(8.2) 14 - 53	> 53	1
Cadmium	< 1.2	1.2 - 9.5	> 9.5	1
Copper*	< 33	33 - 207 (270)	> 207 (270)	1
Lead	< 33 (47)	33 (47) - 166 (218)	> 166 (218)	1
Mercury+	< 0.17	0.17 - 1.6 (1.0)	> 1.6 (1.0)	1
PAHs and Petroleum-Related Compounds (mg/kg)				
Benzene	< 0.59	0.59 - 2.16	> 2.16	2
Total BTEX*	< 0.96	0.96 - 5.9	> 5.9	2
Total PAH ₁	< 4	4 - 35 (45)	> 35 (45)	1
Pesticides (mg/kg)				
Sum of DDT+DDD+DDE+	< 0.003	0.003 - 0.03	> 0.03	2
Mirex*+	< 0.0014	0.0014 - 0.014	> 0.014	2
Chlordane*+	< 0.003	0.003 - 0.036	> 0.036	1
Dieldrin	< 0.11	0.11 - 0.48	> 0.48	2
Chlorinated Hydrocarbons (mg/kg)				
PCBs (sum of aroclors) ₂	< 0.1	0.1 - 1	> 1	3
2,3,7,8-TCDD* ₃ (sum of toxic equivalency)	< 0.0000045	0.0000045 - 0.00005	> 0.00005	4

+ Threshold values lower than the Method Detection Limit are superseded by the Method Detection Limit. (See Table 1) * Indicates case-specific parameter (see Chapter II, Section A) .₁For Sum of PAH, see Appendix E₂For the sum of the 22 PCB congeners required by the USACE NYD or EPA Region 2, the sum must be multiplied by two to determine the total PCB concentration. ₃TEQ calculation as per the NATO - 1988 method (see Appendix D)

Note: The proposed list of analytes can be augmented with additional site specific parameters of concern. Any additional analytes suggested will require Division approved sediment quality threshold values for the A, B and C classifications.

Table 2.1 Derivation Codes for Chemical Threshold Values

Derivation Code	Explanation
1	<p>Values are the geometric mean (GM) between Long & Morgan (1990) and Persaud (1992). Class A values are the GM of ER-L1 and Lowest Effect Level. Class C values are the GM of the ER-M1 and Severe Effect Levels. The resulting GMs were compared to marine water ER-L and ER-M values published by Long & Morgan (1992). When compared, the lowest of the two corresponding values was selected. When there was a large difference between a freshwater (Long & Morgan (1990) or Persaud (1992) GM) and a saltwater (Long & Morgan 1992) value, the marine value was recorded in parentheses, and is applicable to marine water dredging and management only. For total PAHs, Persaud (1992) had no toxicity values so only those of Long and Morgan (1990) were used. This approach is consistent with that described in the Technical Guidance for Screening Contaminated Sediments Document (DFW/DMR 1999). The Chlordane values were developed by NYSDEC generally following the Long and Morgan method.</p>
2	<p>NYSDEC water quality standards were used in conjunction with the U.S. EPA equilibrium partitioning methodology (see DFW/DMR 1993, pages 5-11) to calculate sediment quality threshold values for organic compounds assuming 2% organic carbon and equating Kow to KOC, consistent with the reality of contaminant uptake in biological organisms (Kenaga and Goring, 1980). Class A value is for the protection of benthic life from chronic toxicity. The Class C value is for the protection of benthic life from acute toxicity. If aquatic life standards were not available from 6NYCRR Part 703.5 to generate the sediment screening criterion, a guidance value was derived in accordance with 6 NYCRR Part 706.1. For total BTEX, the A and C values are the geometric means of the A and C values for benzene, xylene, ethylbenzene, and toluene. For DDT (sum of DDT, DDD, & DDE), the A value was based upon the 6 NYCRR 703.5 standard for the protection of wildlife. Because this value (0.00022 mg/l) was below the limit of analytical detection, the analytical detection limit of 0.003 mg/l was selected as a default value. The C value was the level at which significant mortality to <i>daphnia magna</i> has been documented (Long & Morgan, 1990). This approach is consistent with that described in the Technical Guidance for Screening Contaminated Sediments Document (DFW/DMR 1999).</p>
3	<p>Synthesis of Consensus Based Sediment Quality Assessment Values (D.D. MacDonald, et. al., Jan 2000), Marine and Estuarine Sediment Quality Values (E.R. Long, et. al., Nov 1993), PCB soil cleanup levels in NYSDEC Division of Environmental Remediation TAGM HWR-92-4046 and of sediment quality values from NYSDEC Division of Fish, Wildlife and Marine Resources Technical Guidance for Screening Contaminated Sediments, 1998.</p>
4	<p>A mean of the NYSDEC Fish and Wildlife bioaccumulation number, of the USEPA's low risk to mammals, the disposal of paper sludge in pasture land and the bioaccumulation protection of fish values, was calculated and rounded down to the nearest 0.5 ppt. This value is 0.0000045 ppm or 4.5 ppt. Additionally, the soil/sediment action level for 2,3,7,8 TCDD in the RCRA hazardous waste program (TAGM DHSR 3028, 1992) is 4.5 ppt. The on-land application limit of 50 ppt is used as the contaminated level from the USEPA - Paper Industry Agreement from Environment Reporter, 29 April 1994, pages 2222-3.</p>

Table 3 RIPARIAN/IN-WATER Management Options

Activity	Class A	Class B	Class C
Dredging	Any means meeting generally accepted and approved practices	Closed bucket suggested or any means meeting environmental objectives	Closed bucket or other method minimizing loss of resuspended sediment ordinarily required
Riparian Placement	Any means meeting generally accepted and approved practices	Placement at riparian sites already containing more contaminated material. New riparian sites should be covered with Class A sediments to insure isolation of the dredged material. The depth of the cap will be determined on a site specific basis.	Riparian sites should be lined and capped with clay or other impermeable material and covered with Class A sediments to ensure long-term isolation of the dredged material from the environment. The depth of the cover material will be determined on a site specific basis.
In-water Placement	Any means meeting generally accepted and approved practices	In water placement discouraged. When applicable, sites should be capped with Class A sediment to insure isolation of the dredged material	In-water disposal ordinarily precluded.
Barge Overflow	Barge overflow may be allowed (site specific)	Usually, no barge overflow. May be allowed on site specific basis	No barge overflow
Post dredging Monitoring	May be required	See Chapter V	See Chapter V

NOTES:

1. Environmental Objectives for Dredging, Chapter IV, Section A applies to all classes.
2. Environmental Objectives for Dredged Material Management Placement at Riparian and/or In-water Sites, Chapter IV, Section B applies to all classes.
3. Riparian sites are adjacent to or within the 100-year flood plain of the surface waters in which dredging is proposed. These sites are typically diked with controlled outlets for retention of sediment and are typically regulated under Section 401 of the CWA. They do not constitute "on-land" placement.
4. Due to site specific circumstances, an applicant has full responsibility to justify all operations, including both those described above and any other selected alternatives.
5. Depending on conditions, hydraulic dredging to a confined disposal facility or excavation in the dry is the recommended method for PCB concentrations of greater than 10 ppm. Dredged material should be disposed of directly at final disposal sites. An applicant may justify another method of dredging and disposing of this material, as long as no net dumping of contaminated dredged material is proposed. If concentrations approach 50 ppm, Division of Environmental Remediation should be consulted.

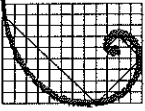
ATTACHMENT B
Boring Location Map

Figure 9. Sediment Sampling Locations, Cayuga Inlet and Tributaries. Ithaca Dredging Project Planning and Design Phase.



ATTACHMENT C

Boring Logs



ERM

5788 Widewaters Parkway, Dewitt, New York 13214

Boring Number

1

ERM

BORING LOG

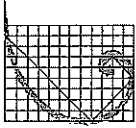
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Drilling Company Parratt Wolff		Foreman Joel Rauscher	Date & Time Completed: 19 Nov 08 1045
Drilling Equipment Barge w/ tripod		Method Split Spoon	Sampler(s) Todd Marsh
Bit Size(s) 2"		Core Barrel(s) 2"	Sampler Hammer 140#
			Drop 30"
			Elevation & Datum
			Completion Depth 14'
			Rock Depth
			Geologist(s) Todd Marsh

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/PID (ppm)	Blow Counts		
	LOCATION: 42° 27' 39.2" 70° 30' 50.8"				SURFACE DESCRIPTION: winter Depth 4.5'	
0				WR		Duplicate sample collected here Ith-Dup1
1				WR		
				WR		
2		0"		WR		
				WR	12" DK Gray SILT with organic material	PT
3				WR	4" DK Gray SILT with fine sand < 10%	OL
				WR		
4		16"		WH		
				WH	24" DK Gray SILT with fine sand < 10% - Soft	ML
5				WH		
				WH		
6		24'		WH		
				WH	27" DK Gray SILT with some fine sand < 5%	ML
7				WH		
				WH		
8		22'		WH		

Page 1 of 2

Signature: _____

Date: 19 Nov 08



ERM

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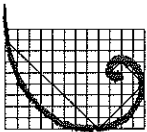
5788 Widewaters Parkway, Dewitt, New York 13214

Boring Number

1

BORING LOG

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/PID (ppm)	Blow Counts		
8		↓		WH	16" DK Gray SILT with some fine sand < 10%	ML
				WH		
9		↓		WH	8" DK Gray SILT some fine sand < 20%	ML
				WH		
10		↓ 24"		WH	15" DK Gray SILT with some fine sand < 15%	ML
		↓		WH		
11				12	9" DK gray to gray fine SAND some medium grained sand < 5% some silt (10%)	SM
		↓		8		
12				5	20" Gray fine and medium grained SAND (80%/15%) with some silt (5%)	SP
		↓		4		
13				5		
		↓				
14				6		
		↓				
15						
		↓				
16					Sample 1030 Ith-1 (6-12) Ith-DVP)	



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5788 Widewaters Parkway, Dewitt, New York 13214

Boring Number

2

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BORING LOG

Project Name & Location Ithaca Dredging		Project Number 0080140	Date & Time Started: 18 NOV 08 0944
Drilling Company Parratt Wolff		Foreman Joel Rauscher	Date & Time Completed: 18 NOV 08 1025
Drilling Equipment Barge w/ tripod		Method Split Spoon	Sampler(s) Todd Marsh
Bit Size(s) 2"		Core Barrel(s) 2"	Sampler Hammer 140 #
			Drop 30"
			Elevation & Datum —
			Completion Depth 14'
			Rock Depth —
		Geologist(s) Todd Marsh	

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/PID (ppm)	Blow Counts		
LOCATION: 42° 27' 34.1" 76° 30' 42.1"					SURFACE DESCRIPTION: Water Depth 10.0'	
0				WR		
1				WR		
2		0'		WR		
				WR	11" DK Gray SILT some clay	OL
3				WH		
4		11"		WH		
				WH	14" DK Gray SILT some sand < 5%	ML
5				WH		
				WH		
6		14"		WH		
				WH	22" DK Gray SILT with some sand < 10%	ML
7				WH		
				WH		
8		22'		WH		



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Boring Number

2

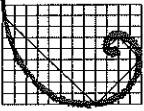
BORING LOG

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/PID (ppm)	Blow Counts		
8		↓ 24'		1	8" DK Gray SILT with some sand < 10%	ML
				3		
9				2	16" DK gray to brown laminated SILT with some sand < 15% - brown sand laminae	ML
10				3	24" DK gray to brown SILT with some sand (15%)	ML
				3	More brown color with depth	
11				3		
				3		
12				3	24" Brown SILT with some sand (15%)	MH
				2		
13				4		
				2		
14						
15					Samples <u>1010 Ith-2 (6-10)</u> <u>1020 Ith-2 (10-14)</u>	
16						

Page 2 of 2

Signature: _____

Date: 18 Nov 08



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5788 Widewaters Parkway, Dewitt, New York 13214

Boring Number

3

ERM

BORING LOG

Project Name & Location Ithaca Dredging		Project Number 0080140	Date & Time Started: 17 NOV 09 1330
Drilling Company Parratt Wolff		Foreman Joel Rauscher	Date & Time Completed: 17 NOV 09 1445
Drilling Equipment Barge w/ tripod		Method Split Spoon	Sampler(s) Todd Marsh
Bit Size(s) 2"		Core Barrel(s) 2"	Sampler Hammer 140
		Geologist(s) Todd Marsh	Drop 30"
			Completion Depth 14'
			Rock Depth —

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/PID (ppm)	Blow Counts		
	LOCATION: 42° 27' 24.5" 76° 30' 38.7"				SURFACE DESCRIPTION: 3.5' water depth	
0				WR		
1				WR		
2		0"		WR		
				3	4" DK gray SILT organic	PT
				6	12" DK gray fine to medium grained	SP
3				5	SAND with some silt < 5%	
4		16"		6		
				4	14" DK Brown fine to medium grained	SP
				2	SAND with some silt < 5%	
5				5		
				4		
6		14"		5	9" DK Brown medium grained SAND with some fine grained sand < 15% and	SP
				4	< 5% silt	
7				3		
				4		
8		9"		4		



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5788 Widewaters Parkway, Dewitt, New York 13214

Boring Number

3

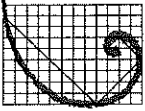
BORING LOG

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/PID (ppm)	Blow Counts		
8		↓ 14"		5	14" DK brown fine-grained SAND with some medium-grained sand (<10%)	SP
				4	also some silt (<5%)	
9				3		
				4		
10				2	5" DK brown fine-grained SAND some silt <10%	SW
			2			
11		↓ 21"		1	16" Brown to reddish-brown fine-grained SAND some silt <20%	SP
				4		
12				3	4" Brown to reddish-brown fine-grained SAND with some silt <15%	SP
			3	3" Brown to DK brown sandy SILT.	ML	
13		↓ 15"		1	fine-grained sand < 20%	
				4	8" DK brown fine-grained SAND with some medium-grained sand <5% and silt <10%	SW
14						
15						
16					Sample 1450 Fth-3 (6-12)	

Page 2 of 2

Signature: _____

Date: 17 Nov 08



ERM

5788 Widewaters Parkway, Dewitt, New York 13214

Boring Number

4

ERM

BORING LOG

Project Name & Location Ithaca Dredging		Project Number 0080140	Date & Time Started: <i>18 Nov 08 0855</i>
Drilling Company Parratt Wolff		Foreman Joel Rauscher	Date & Time Completed: <i>18 Nov 08 0920</i>
Drilling Equipment Barge w/ tripod		Method Split Spoon	Sampler(s) Todd Marsh
Bit Size(s) 2"		Core Barrel(s) 2"	Sampler Hammer 140#
			Drop 30'
			Elevation & Datum ✓
			Completion Depth 14'
			Rock Depth ✓
		Geologist(s) Todd Marsh	

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/PID (ppm)	Blow Counts		
	LOCATION: <i>42° 27' 10.5"</i>		<i>76° 30' 42.1"</i>		SURFACE DESCRIPTION: <i>4.0' water depth</i>	
0				WR	<i>8" DK gray SILT with some clay</i>	<i>ML</i>
1				WR		
				WR		
2			<i>8"</i>	WR		
				WR	<i>10" DK gray SILT with some clay</i>	<i>ML</i>
3				WH		
				WH		
4			<i>10"</i>	WH		
				1	<i>22" DK gray SILT with clay (45%)</i>	<i>ML</i>
5				2		
				1		
6			<i>22"</i>	3		
				2	<i>3" DK gray SILT with clay (45%)</i>	<i>ML</i>
7				2	<i>6" DK gray to brown sandy SILT 25% fine sand</i>	<i>ML</i>
				5	<i>10" Gray to brown fine-grained SAND</i>	<i>SW</i>
8			<i>19"</i>	5	<i>with some silt < 10%</i>	



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5788 Widewaters Parkway, Dewitt, New York 13214

Boring Number

4

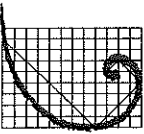
BORING LOG

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/PID (ppm)	Blow Counts		
8		↓		3	14" Reddish brown to dk brown fine SAND with some silt (<15%)	SW
				6		
9				2		
		↓		3		
10		14"		3	5" DK brown fine SAND with some silt <10%	SW
		↓		3	15" DK brown to dk gray SILT with some fine sand <15%	ML
11				4		
		↓		5		
12		20"		3	14" Dk brown to dk gray SILT with fine sand <10% - sand content increases with depth.	ML
		↓		3		
13				4		
		↓		4		
14		14"				
					Sample 0920 Ith-4(6-12)	
15						
16						

Page 2 of 2

Signature: _____

Date: 18 Nov 08



ERM

5788 Widewaters Parkway, Dewitt, New York 13214

Boring Number

5

ERM

BORING LOG

Project Name & Location Ithaca Dredging		Project Number 0080140	Date & Time Started: 19NOV08 1205
Drilling Company Parratt Wolff		Foreman Joel Rauscher	Date & Time Completed: 19NOV08 1300
Drilling Equipment Barge w/ tripod		Method Split Spoon	Sampler(s) Todd Marsh
Bit Size(s) 2"		Core Barrel(s) 2"	Sampler Hammer 140#
			Drop 30"
			Completion Depth 14'
			Rock Depth —
			Geologist(s) Todd Marsh

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/PID (ppm)	Blow Counts		
LOCATION: 42° 27' 6.9"		76° 30' 32.8"		SURFACE DESCRIPTION: Water Depth 4.5'		
0		↓ 18" ↓ 15" ↓ 24" ↓ 8"		WH	12" Black organic SILT	PT
1				WH		
				WH	6" DK gray SILT with some sand <10%	ML
2				WH	15" DK gray to dk brown SILT with some fine sand <10%	ML
				2		
3				4		
				3		
4				3	12" DK brown SILT with some fine sand <15%	ML
				3		
5				9	12" Brown fine SAND with 40% silt, wood fragments throughout	SM
			8			
6			3	8" Gray fine grained SAND some medium grained sand <5% and	SW	
			3	brown laminations of organic material		
7			6			
			6			
8			6			

Page 1 of 2

Signature: _____

Date: 19NOV08



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5788 Widewaters Parkway, Dewitt, New York 13214

Boring Number

5

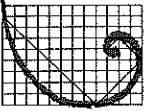
BORING LOG

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/PID (ppm)	Blow Counts		
8		↓ 24'		3	24" DK gray fine to medium grained SAND some silt <5%	SP
				2		
9				2		
				5		
10				2	24" Gray fine to medium grained SAND with some silt <5%	SP
				2		
11				2		
				3		
12				3	24" Gray fine to medium-grained SAND with some silt <5%	SP
				2		
13				2		
				3		
14						
15					Samples 1240 Ith-5(4-10) Ith-5(10-14)	
16						

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Date: 19 Nov 08



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5788 Widewaters Parkway, Dewitt, New York 13214

Boring Number

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ERM

BORING LOG

Project Name & Location Ithaca Dredging		Project Number 0080140	Date & Time Started: 18 Nov 08 1340
Drilling Company Parratt Wolff		Foreman Joel Rauscher	Date & Time Completed: 18 Nov 08 1420
Drilling Equipment Barge w/ tripod		Method Split Spoon	Sampler(s) Todd Marsh
Bit Size(s) 2"		Core Barrel(s) 2"	Sampler Hammer 140 #
		Geologist(s) Todd Marsh	Drop 30"
			Completion Depth 14'
			Rock Depth —

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (teet)	FID/ PID (ppm)	Blow Counts		
LOCATION: 42° 27' 06.1" 76° 30' 41.4"		SURFACE DESCRIPTION: 10-5' water depth				
0				WH	4" Black to gray organic SILT	PT
1				WH		
				3	4" Brown medium-grained SAND	SW
		8"		1		
2				WH	9" Gray to brown fine to medium grained SAND	SP
				WH		
3				WH		
		9"		WH		
4				3	10" Gray to brown medium grained SAND	SP
				3		
5				4	4" Brown SILT with some fine sand < 5%	ML
		14"		2		
6				2	2" Brown SILT with some fine sand	ML
				3	9" Gray and brown medium-grained SAND some fine grained sand and silt.	SP
7				5		
		15"		6	4" Brown SILT with some fine-grained sand < 10%	ML
8						



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Boring Number

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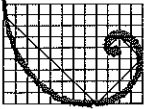
BORING LOG

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/PID (ppm)	Blow Counts		
8		↓ 24"		2	24" Brown SILT with some fine sand and shells <5%	ML
				2		
9				1		
				2		
10				1	24" Brown SILT with some fine sand and organic material <10%	ML
				2		
11				4		
				4		
12				2	21" Brown laminated SILT with some gray fine-grained sand	ML
				2	laminations 1cm or less	
13				3		
				4		
14						
15					Samples 1410 Ith-6 (6-10)	
					1420 Ith-6 (10-14)	
16						

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Date: 18 Nov 08



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Boring Number

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ERM

BORING LOG

Project Name & Location Ithaca Dredging		Project Number 0080140	Date & Time Started: 19 NOV 08 1315
Drilling Company Parratt Wolff		Foreman Joel Rauscher	Date & Time Completed: 19 NOV 08 1355
Drilling Equipment Barge w/ tripod		Method Split Spoon	Sampler(s) Todd Marsh
Bit Size(s) 2"		Core Barrel(s) 2"	Geologist(s) Todd Marsh
			Sampler Hammer 140#
			Drop 30'
			Elevation & Datum —
			Completion Depth 14'
			Rock Depth —

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/PID (ppm)	Blow Counts		
	LOCATION: 42° 26' 57.7" 76° 30' 41.5"				SURFACE DESCRIPTION: Water Depth 3'	
0				WH	8" Black organic SILT	PT
1				WH		
				WH	9" Dk gray to dk brown SILT with fine sand < 10%	ML
2		17"		WH		
				WH	14" Gray and brown fine to medium grained SAND with some silt < 10%	SP-SM
3				WH	Fine sand > medium sand volume	
				WH		
4		14"		WH		
				WH	11" Gray and brown fine to medium grained SAND with some silt < 10%	SP-SM
5				WH	Fine sand > medium sand volume	
				Z		
				1		
6		11"		WH	3" Gray to brown fine to medium grained SAND	SP
				WH	7" Brown SILT with organic material (leaves) at bottom of interval	ML
7				Z	10" gray to brown fine SAND with silt at 20%	SW-SM
8		20"		Z		



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BORING LOG

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/PID (ppm)	Blow Counts		
8				1	19" Gray and brown fine to medium grained SAND with some silt < 10% silt content increasing with depth	SP-Sm
9				1	5" Brown SILT with fine sand < 25%	ML
10		24"		1	8" Brown SILT with fine sand (25%)	ML
11				1	10" fine to medium grained SAND with some silt 15%	SP-Sm
12		24"		1	6" Brown SILT with fine-grained sand < 10%	ML
13				2	16" Brown to gray fine to medium-grained SAND some silt < 15%	SP-Sm
14		24"		3	8" Brown and gray SILT with some fine grained sand < 15%	ML
15					Sample 1350 Dth-7 (1-14)	
16						

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Date: 19 Nov 08



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8

ERM

BORING LOG

Project Name & Location Ithaca Dredging		Project Number 0080140	Date & Time Started: 19 Nov 08 1407
Drilling Company Parratt Wolff		Foreman Joel Rauscher	Date & Time Completed: 19 Nov 08 1505
Drilling Equipment Barge w/ tripod		Method Split Spoon	Sampler(s) Todd Marsh
Bit Size(s) 2"		Core Barrel(s) 2"	Sampler Hammer 140#
		Geologist(s) Todd Marsh	Drop 30"
			Completion Depth 14'
			Rock Depth —

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/ PID (ppm)	Blow Counts		
0	LOCATION: 42° 26' 42.1" 76° 30' 43.5"				SURFACE DESCRIPTION: water depth 9'	
				WR	6" Black organic SILT	PT
1				WR		
				WH		
		6"		WH		
2				WH	12" Brown SILT with some fine-grained sand < 10%	ML
				WH		
3				5		
				2		
4		12"		WH	15" Brown SILT with fine-grained sand < 10%	ML
				WH	1" Black tar-like substance (root tar?)	—
5				WH	4" Medium grained SAND with	SP
				1	some fine grained sand and small gravel 10%	
6		20"		3	4" DK gray SILT - no sand	ML
				1		
7				3		
				2		
8		4"				



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8

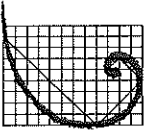
BORING LOG

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/PID (ppm)	Blow Counts		
8				3	10" Dk brown SILT some sand < 10%	ML
9				4		
				2		
10		18"		1		
				1	4" Dk brown SILT with some sand < 15%	ML
11				1	8" medium grained SAND with some small gravel < 5%	SP
				1	3" Dk brown SILT with some sand	ML
12		15"		2	< 10%	
				2	24" Dk brown SILT with some	ML
13				2	sand < 15%	
				3		
14		24"		3		
15					Samples 1430 Ith-8(2-10)	
					1445 Ith-8(10-14)	
16						

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BORING LOG

Project Name & Location Ithaca Dredging		Project Number 0080140	Date & Time Started: <i>20 Nov 08 1500</i>
Drilling Company Parratt Wolff		Foreman Joel Rauscher	Date & Time Completed: <i>20 Nov 08 1540</i>
Drilling Equipment Barge w/ tripod		Method Split Spoon	Sampler(s) Todd Marsh
Bit Size(s) 2"		Core Barrel(s) 2"	Sampler Hammer 140#
		Geologist(s) Todd Marsh	Drop 30"
			Elevation & Datum —
			Completion Depth 14'
			Rock Depth —

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/ PID (ppm)	Blow Counts		
LOCATION: <i>6PS - NW</i>					SURFACE DESCRIPTION: <i>Water Depth 10.9'</i>	
0		↓ 0"		WH		
1				WH		
2				WH		
3				WH		
4		↓ 9"		WH	<i>Gray fine-grained SAND with some silt <10%</i>	<i>SW-SM</i>
5				WH		
6		↓ 6"		WH		
7				WH		
8		↓ 20"		Z	<i>Brown SILT with some sand <5% and some clay <5%</i>	<i>ML</i>
				Z		
				3		

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BORING LOG

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/PID (ppm)	Blow Counts		
8		↓ 22"		3	22" Brown SILT with fine-grained Sand with lime shells < 5%	ML
				3		
9				2		
				2		
10				3	20" Brown SILT with clay interbeds < 5% some shells and leafy materials	ML
				2		
11				2		
				2		
12		↓ 20"		4	18" Brown SILT with clay interbeds < 15% - organic materials and shells.	ML
				4		
13				6		
				6		
14		↓ 18"				
15					Sample 1515 Ith-9(1-14)	
16						

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BORING LOG

Project Name & Location Ithaca Dredging		Project Number 0080140	Date & Time Started: <i>20 Nov 08 1355</i>
Drilling Company Parratt Wolff		Foreman Joel Rauscher	Date & Time Completed: <i>20 Nov 08 1420</i>
Drilling Equipment Barge w/ tripod		Method Split Spoon	Sampler(s) Todd Marsh
Bit Size(s) 2"		Core Barrel(s) 2"	Sampler Hammer 140#
			Drop 30"
			Elevation & Datum
			Completion Depth 14'
			Rock Depth —
			Geologist(s) Todd Marsh

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/PID (ppm)	Blow Counts		
	LOCATION: <i>GPS NW</i>				SURFACE DESCRIPTION: <i>water depth 10.0'</i>	
0				<i>WH</i>		
1				<i>WH</i>		
2		<i>0"</i>		<i>WH</i>		
3				<i>WH</i>	<i>DK gray to brown fine-grained SAND with some silt < 20%</i>	<i>SW-Sm</i>
4		<i>7"</i>		<i>WH</i>		
5				<i>2</i>	<i>10" DK gray to brown fine-grained SAND with some silt 15%</i>	<i>SW-Sm</i>
6				<i>3</i>		
7				<i>4</i>	<i>5" DK brown SILT with some fine sand < 10% some wood fragments</i>	<i>ML</i>
8		<i>24"</i>		<i>5</i>	<i>8" DK brown SILT with some fine sand < 5%</i>	<i>ML</i>
				<i>2</i>	<i>4" Brown Peat</i>	<i>PT</i>
				<i>3</i>	<i>10" Brown SILT with some fine-grained sand < 5% with some thin clay layers</i>	<i>ML</i>
				<i>2</i>		
8		<i>20"</i>		<i>4</i>		



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10

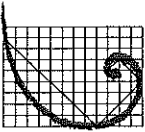
BORING LOG

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/PID (ppm)	Blow Counts		
8		↓		4	20" Brown to light brown SILT with some fine sand layers and white clay layers clay < 5% and	ML
				2	sand < 5%	
9				3		
10		20"		2		
		↓		3	21" Brown to light brown SILT	ML
				2	Some white clay layers clay < 10%	
11				4		
12		21"		4		
		↓		4	6" Brown to light brown SILT with	ML
				3	Some clay < 10%	
13				4		
14		6"		4		
15					Sample 1415 Ith-10(1-14)	
16						

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Boring Number

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BORING LOG

Project Name & Location Ithaca Dredging		Project Number 0080140	Date & Time Started: 20 Nov 08 1145
Drilling Company Parratt Wolff		Foreman Joel Rauscher	Date & Time Completed: 20 Nov 08 1230
Drilling Equipment Barge w/ tripod		Method Split Spoon	Sampler(s) Todd Marsh
Bit Size(s) 2"		Core Barrel(s) 2"	Sampler Hammer 140#
			Drop 30"
			Completion Depth 14'
			Rock Depth —
		Geologist(s) Todd Marsh	

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/PID (ppm)	Blow Counts		
LOCATION: GPS - NW					SURFACE DESCRIPTION: Water Depth 13.0'	
0				2	3" Gray fine to medium grained SAND	Duplicate sample collected ITH-WUPZ SP
1				1	5" Brown SILT with some fine sand < 5%	ML
2		8"		1		
				2	9" Brown SILT with some fine grained sand and shells < 5%	ML
				2		
3				3		
				3		
4		9"		4	10" Brown and Gray SILT with some fine grained sand < 5%	compact - hard ML
				4		
5				5		
				4		
6		10"		2	15" Brown and Gray SILT with some fine-grained sand and shells also some small gravel < 10%	ML
				1		
7				1	9" Brown to light brown SILT with some fine sand < 20% - laminated	ML
				1	structures - bedding	
8		24"		1		



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11

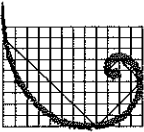
BORING LOG

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/PID (ppm)	Blow Counts		
8		↓		2	Brown SILT with yellow-white clay interbeds - abundant shells some fine sand < 5%	ML
				2		
9		↓		1		
				2		
10		24"				
		↓		1	yellow white CLAY with brown silt interbeds with some fine sand < 5%	CL
				2		
11		↓		1		
				2		
12		24"				
		↓		2	Brown SILT with yellow-white clay < 15% with some fine sand < 5%	ML
				3		
13		↓		2		
				4		
14		24				
15					Sample collected 1226 Ith-11(1-14) Ith-DVPZ	
16						

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BORING LOG

Project Name & Location Ithaca Dredging		Project Number 0080140	Date & Time Started: 20 Nov 08 1034
			Date & Time Completed: 20 Nov 08 1140
Drilling Company Parratt Wolff	Foreman Joel Rauscher	Sampler(s) Todd Marsh	Sampler Hammer 140#
Drilling Equipment Barge w/ tripod		Method Split Spoon	Drop 30"
		Elevation & Datum —	Completion Depth 14'
Bit Size(s) 2"		Core Barrel(s) 2"	Geologist(s) Todd Marsh

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/ PID (ppm)	Blow Counts		
	LOCATION: 42°26'22.0" 76°30'53.12"				SURFACE DESCRIPTION: Water Depth 8.0 ft	
0				7		
1				3		
				1		
2		0"		2		
				1	4" Brown fine to medium grain SAND with some silt < 5%	SP
3				1	3" Soaked wood	—
				2	8" Brown fine to medium grained SAND with some silt < 5%	SP
4		15"		3		
				2	17" Gray medium to coarse SAND some glass and plastic debris with fine sand < 15% and silt < 5%	SP
5				1		
				3		
6		17"		3		
				2	16" Gray fine to medium SAND with some coarse sand and gravel	SP
				2	some silt less < 5%	
7				3	8" Brown fine to medium grained	SP-Sm
				3	SAND with some silt < 15%	
8		24"		5		



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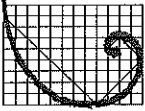
BORING LOG

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/PID (ppm)	Blow Counts		
8		↓		3	18" Grey and brown medium to coarse SAND with some fine sand < 10% no silt	SP-SM
				3		
9		↓		4	5" wood - branch segment	-
				5		
10		18"		5	20" medium to coarse SAND some small gravel at bottom of interval	SP
		↓		5	silt < 5%	
11				4	4" Brown SILT with some fine sand < 5%	ML
		24"		3		
12		↓		2	4" Brown SILT with some fine sand < 5%	ML
				2	20" medium to coarse SAND with	SP
13		↓		3	some fine sand < 10% and silt < 5%	
				4		
14		24"				
15					Sample collected 1045 Ith-12 (1-14)	
16						

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Boring Number

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BORING LOG

Project Name & Location Ithaca Dredging		Project Number 0080140	Date & Time Started: 21 Nov 08 0830
Drilling Company Parratt Wolff		Foreman Joel Rauscher	Date & Time Completed: 21 Nov 08 0845
Drilling Equipment Barge w/ tripod		Method Split Spoon	Sampler(s) Todd Marsh
Bit Size(s) 2"		Core Barrel(s) 2"	Sampler Hammer 140#
			Drop 30"
			Completion Depth 14'
			Rock Depth —
			Geologist(s) Todd Marsh

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/ PID (ppm)	Blow Counts		
	LOCATION: GPS - NW				SURFACE DESCRIPTION: Depth to water 7.5'	
0		↓ 3" ↓ 10" ↓ 9" ↓ 21"		1	3" Brown Coarse SAND with gravel	SP
1			1			
			1			
2			1		10" Coarse SAND and gravel - gravel < 40% also containing some medium grain sand and some silt < 5%	SP-sm
3			3			
			4			
4			3			
			2		Coarse SAND and gravel - gravel < 40% with some fine sand and silt < 10%	SP-sm
5			2			
			4			
6		3				
		2		21" Brown SILT with fine sand some gravel at top of interval sand content 10-15%	ML	
7		2				
		2				
8		2				



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13

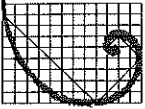
BORING LOG

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/PID (ppm)	Blow Counts		
8				2	Brown SILT with fine sand at 10-15%	ML
				2		
9				3		
				2		
10		24"		2	Brown SILT with fine sand at 10-15%	ML
				3		
11					3	
				5		
12		24"		2	Brown SILT with fine sand <5%	ML
				2		
13					4	
				4		
14		24"		4		
15						Samples collected 0830 Ith-13(1-10)
16						

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BORING LOG

Project Name & Location Ithaca Dredging		Project Number 0080140	Date & Time Started: 21 Nov 08 0945
Drilling Company Parratt Wolff		Foreman Joel Rauscher	Date & Time Completed: 21 Nov 08 1150
Drilling Equipment Barge w/ tripod		Method Split Spoon	Sampler(s) Todd Marsh
Bit Size(s) 2"		Core Barrel(s) 2"	Sampler Hammer 140 lb
			Drop 70'
			Completion Depth 14'
			Rock Depth —
			Geologist(s) Todd Marsh

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/PID (ppm)	Blow Counts		
LOCATION: GPS - NW					SURFACE DESCRIPTION: water depth 4.0'	
0				4	Gravel GRAVEL with coarse sand - gravel 60%	GP
1				5		
				1		
				12		
2		6"		13	Coarse SAND with gravel (30%) some silt < 5%	SP
				9		
3				8		
				6		
4		10"		5	GRAVEL with coarse sand gravel content 85%	GP
				5		
5				7		
				5		
6		3"		8	Brown fine-grained SAND with silt content at 30%	SM
				5		
7				3		
				6		
8		10"				



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Boring Number

14

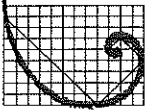
BORING LOG

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/PID (ppm)	Blow Counts		
8				1	6" Brown SILT with fine sand at 40%	ML
9				1	1" mat of roots	—
				3	5" Brown SILT with fine sand at 25%	ML
10		12'		3	15" Brown SILT with fine sand at 15%	ML
				3		
11				2		
				3		
12		15"		3	Brown SILT with fine sand between 15-20%	ML
				3		
13				2		
				2		
14		15"				
15					Sample collected 0850 It-14(1-14)	
16						

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BORING LOG

Project Name & Location Ithaca Dredging		Project Number 0080140	Date & Time Started: 20 NOV 08 0918
Drilling Company Parratt Wolff		Foreman Joel Rauscher	Date & Time Completed: 20 NOV 08 1020
Drilling Equipment Barge w/ tripod		Method Split Spoon	Sampler(s) Todd Marsh
Bit Size(s) 2"		Core Barrel(s) 2"	Sampler Hammer 140#
			Drop 30"
			Completion Depth 141
			Rock Depth —
			Geologist(s) Todd Marsh

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS	
	Sample Number	Recovery (feet)	FID/PID (ppm)	Blow Counts			
LOCATION: 42° 26' 18.2" 76° 30' 58.5"		SURFACE DESCRIPTION: Depth to water 7.0'					
0				WR			
1				WR			
2		0"		WR			
3				WH	10" Brown and gray fine to medium grained SAND silt < 10%	SP-SM	
4		10"		2			
5				2			
6				2	6" Brown and Gray fine SAND with silt content at 20%	SW-SM	
7				3	8" Brown SILT with organic materials and fine sand < 10%	ML	
8				4	10" Brown and Gray fine to medium grained SAND with silt content < 10%	SP-SM	
9		24'		4			
10				2	16" Brown and gray fine to medium grained SAND with some silt < 5%	SP	
11				1			
12				1			
13				2			
14		16"		2			



ERM

5788 Widewaters Parkway, Dewitt, New York 13214

Boring Number

16

BORING LOG

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/PID (ppm)	Blow Counts		
8				4	20" Gray and brown fine to medium grained SAND with silt < 5%	SP
				6	Some pieces of wood	
9				6		
				5		
10		20"		3	15" Gray and brown medium grained SAND with some fine	SP
				4	grained sand becoming coarser with depth	
11				3	9" Brown SILT with fine grained	ML
				3	Sand around 25% - less sand with depth	
12		24"		1	16" Brown SILT with fine grained sand less than 10%	ML
				1		
13				3	8" yellow brown SILT with some clay < 15% low plasticity	ML
				2		
14		24"				
					Samples collected at 0930	
15					ITH-16 (1-14)	
					ETH-16MS (1-14)	
					ITH-16MSD (1-14)	
16						

Page 2 of 2

Signature: _____

Date: 20 Nov 05

ATTACHMENT D

Tables

TABLE 1
SUMMARY OF SAMPLE ANALYSIS, NOVEMBER 2008
CITY OF ITHACA DREDGING STUDY
ERM PROJECT NO. 0080140

Boring Location	Standards		1		2			3		4		5		6			7
	TOGs 5.1.9: Class A	Part 375 Unrestricted Soil Standards	Ich-1		Ich-2			Ich-3		Ich-4		Ich-5		Ich-6			Ich-7
			1 - 6	6 - 12	1 - 6	6 - 10	10 - 14	1 - 6	6 - 12	1 - 6	6 - 12	4 - 10	10 - 14	1 - 6	6 - 10	10 - 14	1 - 14
BTEX (µg/Kg)																	
Toluene	BTEX < 960	700	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOC's (µg/Kg)																	
2-Methylnaphthalene	NS	NS	--	--	--	180 J	--	--	--	--	--	--	--	--	--	--	90 J
Acenaphthene	NS	20,000	--	--	--	750	--	--	--	--	--	--	--	--	--	--	120 J
Acenaphthylene	NS	100,000	--	--	--	92 J	--	--	--	--	--	--	--	--	--	--	--
Anthracene	NS	100,000	--	--	--	300 J	--	--	--	--	--	--	--	--	--	--	230 J
Benzo[a]anthracene	NS	1,000	170 J	140 J	150 J	610	--	240 J	--	83 J	--	--	--	88 J	--	--	390 J
Benzo[a]pyrene	NS	1,000	170 J	140 J	170 J	510	--	280 J	--	91 J	--	--	--	98 J	--	--	350 J
Benzo[b]fluoranthene	NS	1,000	230 J	240 J	300 J	650	--	550 J	--	140 J	--	--	--	160 J	--	--	590
Benzo[g,h,i]perylene	NS	100,000	86 J	--	110 J	150 J	--	170 J	--	58 J	--	--	--	64 J	--	--	130 J
Benzo[k]fluoranthene	NS	800	110 J	90 J	140 J	270 J	--	190 J	--	60 J	--	--	--	71 J	--	--	210 J
Chrysene	NS	1,000	190 J	170 J	210 J	630	--	350 J	--	99 J	--	--	--	120 J	--	--	460 J
Fluoranthene	NS	100,000	370 J	350 J	410 J	1,100	--	700	--	210 J	--	--	--	220 J	65 J	--	1,200
Fluorene	NS	30,000	--	--	--	380	--	--	--	--	--	--	--	--	--	--	160 J
Indeno[1,2,3-cd]pyrene	NS	500	63 J	--	71 J	65 J	--	100 J	--	--	--	--	--	--	--	--	70 J
Naphthalene	NS	12,000	--	--	--	240 J	--	--	--	--	--	--	--	--	--	--	130 J
Phenanthrene	NS	100,000	170 J	230 J	180 J	1200	--	280 J	--	91 J	--	--	--	92 J	71 J	--	1,500
Pyrene	NS	100,000	290 J	330 J	330 J	1400	--	630 J	--	160 J	--	--	--	180 J	54 J	--	1,100
Total PAHs	4,000	NS	1,849	1,690	2,071	8,527	--	3,490	--	992	--	--	--	1,093	190	--	6,730
Metals (mg/Kg)																	
Arsenic	< 8.2	13	3.5	6.5	5.6	2.8	3.3	5.4	2.1	4.3	2.2	4	1.3 J	4.5	2.3	2.5	4.8
Cadmium	< 1.2	2.5	--	0.29 J	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	NS	30	12	19	19	13	12	18	7.6	12	10	13	6.8	14	8.2	8.7	13
Copper	< 33	50	18	31	27	16	15	29	7.3	18	12	16	4.7	21	11	11	19
Lead	< 47	63	13	32	21	11	7.4	25		12	8.4	10	3.5	20	7.1	5.4	27
Mercury	< 0.17	0.18	0.055 J	0.3	0.076 J	0.18	0.047	0.076 J	0.033 J	0.043 J	0.043 J	0.15	0.087 J	0.047 J	0.03 J	0.031 J	0.13 J
Nickel	NS	30	17	26	26	19	18	24	10	17	14	19	9.1	20	12	13	18
Zinc	NS	109	68	98	97	61	58	100	31	60	46	57	30	70	42	37	70
PCB's (mg/Kg)																	
Aroclor 1254	Total PCB < 0.1	0.10	--	0.0657	--	0.0294	0.0152	--	--	--	0.0423	0.00546 J	--	--	--	--	0.0427
Total Organic Carbon (mg/Kg)																	
TOC	NS	NS	23,700	17,600	17,500	22,900	20,400	25,200	10,500	15,100	10,400	26,700	3,970	17,200	34,900	30,500	14,400

Notes:

-- = Analyte not detected.

J = Concentration Estimated: Result below the Practical Quantitation Limit (PQL).

NS = No Standard

µg/Kg = Is equal to Parts Per Billion (ppb).

mg/Kg = Is equal to Parts Per Million (ppm).

¹ = Sample composite interval in feet below sediment/water interface.

Bold = Sample exceeds Applicable Standard.

TABLE 1
SUMMARY OF SAMPLE ANALYSIS, NOVEMBER 2008
CITY OF ITHACA DREDGING STUDY
ERM PROJECT NO. 0080140

Boring Location	Standards		8		9	10	11	12	13		14	16
	TOGs 5.1.9: Class A	Part 375 Unrestricted Soil Standards	Ich-8		Ich-9	Ich-10	Ich-11	Ich-12	Ich-13		Ich-14	Ich-16
			2 - 10	10 - 14	1 - 14	1 - 14	1 - 14	1 - 14	1 - 10	10 - 14	1 - 14	1 - 14
BTEX (µg/Kg)												
Toluene	BTEX < 960	700	--	--	--	--	--	--	--	--	0.94 J	--
SVOC's (µg/Kg)												
2-Methylnaphthalene	NS	NS	--	69 J	--	--	--	--	--	--	--	--
Acenaphthene	NS	20,000	--	--	--	--	--	--	--	--	--	--
Acenaphthylene	NS	100,000	--	--	--	--	--	--	--	--	--	--
Anthracene	NS	100,000	--	--	--	--	--	--	--	--	--	--
Benzo[a]anthracene	NS	1,000	190 J	--	--	--	--	--	--	--	--	--
Benzo[a]pyrene	NS	1,000	190 J	--	--	--	--	--	--	--	--	--
Benzo[b]fluoranthene	NS	1,000	370 J	--	--	--	--	--	48 J	--	--	--
Benzo[g,h,i]perylene	NS	100,000	80 J	--	--	--	--	--	--	--	--	--
Benzo[k]fluoranthene	NS	800	190 J	--	--	--	--	--	--	--	--	--
Chrysene	NS	1,000	240 J	--	--	--	--	--	--	--	--	--
Fluoranthene	NS	100,000	440 J	--	--	--	--	--	63 J	--	--	--
Fluorene	NS	30,000	--	--	--	--	--	--	--	--	--	--
Indeno[1,2,3-cd]pyrene	NS	500	--	--	--	--	--	--	--	--	--	--
Naphthalene	NS	12,000	--	--	--	--	--	--	--	--	--	--
Phenanthrene	NS	100,000	230 J	68 J	--	--	--	--	--	--	--	--
Pyrene	NS	100,000	400 J	--	--	--	--	--	59 J	--	--	--
Total PAHs	4,000	NS	2,330	137	--	--	--	--	170	--	--	--
Metals (mg/Kg)												
Arsenic	< 8.2	13	4.2	2.1	3.2	3	2.5	1.9	3.6	3.9	3.6	2.5
Cadmium	< 1.2	2.5	--	--	--	--	--	--	--	--	--	--
Chromium	NS	30	14	8.5	11	9.9	10	11	12	13	13	10
Copper	< 33	50	25	9.2	16	14	15	8.5	12	13	12	8
Lead	< 47	63	32	5	9.3	8.2	7.5	8.4	7.7	6.2	6.8	5.5
Mercury	< 0.17	0.18	0.2	--	0.072 J	0.037 J	0.027 J	0.024 J	0.082 J	0.037 J	0.029 J	0.058 J
Nickel	NS	30	19	12	16	14	15	16	17	17	20	15
Zinc	NS	109	80	39	48	42	42	47	52	55	47	43
PCB's (mg/Kg)												
Aroclor 1254	Total PCB < 0.1	0.10	0.0361	0.093 J	--	--	--	--	--	--	--	--
Total Organic Carbon (mg/Kg)												
TOC	NS	NS	18,900	23,900	26,600	33,600	27,700	21,100	11,300	15,200	14,000	7,760

Notes:

-- = Analyte not detected.

J = Concentration Estimated: Result below the Practical Quantitation Limit (PQL).

NS = No Standard

µg/Kg = Is equal to Parts Per Billion (ppb).

mg/Kg = Is equal to Parts Per Million (ppm).

¹ = Sample composite interval in feet below sediment/water interface.

Bold = Sample exceeds Applicable Standard.

TABLE 2
SEDIMENT PHYSICAL CHARACTERISTICS
CITY OF ITHACA DREDGING STUDY
ERM PROJECT NO. 0080140

Sample ID	Depth (feet)	Percent Water Content	Percent Gravel	Percent Sand	Percent Fines (Silt & Clay)	Specific Gravity	Percent Organic Content
Ith-1	6.0 - 12.0	51.8	0.0	9.4	49.3	2.65	1.76
Ith-2	6.0 - 10.0	55.1	1.9	8.2	89.9	2.62	2.29
	10.0 - 14.0	43.6	1.4	9.6	89.0	2.58	2.04
Ith-3	6.0 - 12.0	29.6	0.5	50.2	49.3	2.65	1.05
Ith-4	6.0 - 12.0	37.4	0.2	38.1	61.7	2.60	1.04
Ith-5	4.0 - 10.0	51.1	1.5	36.1	62.4	2.68	2.67
	10.0 - 14.0	31.1	0.9	64.9	34.2	2.67	0.40
Ith-6	6.0 - 10.0	51.6	2.0	25.1	72.9	2.62	3.49
	10.0 - 14.0	52.6	0.2	5.6	94.2	2.64	3.05
Ith-7	7.0 - 14.0	37.4	0.1	52.4	47.5	2.55	1.44
Ith-8	2.0 - 10.0	49.9	2.4	28.8	68.8	2.62	1.89
	10.0 - 14.0	40.5	7.5	26.6	65.9	2.67	2.39
Ith-9	1.0 - 14.0	58.3	3.9	17.9	78.2	2.58	2.66
Ith-10	1.0 - 14.0	57.1	1.6	19.3	79.1	2.64	3.36
Ith-11	1.0 - 14.0	54.2	0.5	28.4	71.1	2.66	2.77
Ith-12	1.0 - 14.0	34.5	7.0	72.7	20.3	2.64	2.11
Ith-13	1.0 - 14.0	48.1	2.0	8.9	89.1	2.64	1.13
	1.0 - 10.0	37.0	15.2	27.7	57.1	2.62	1.52
Ith-14	1.0 - 14.0	32.7	28.2	18.0	53.8	2.70	1.40
Ith-16	1.0 - 14.0	28.7	2.4	70.1	27.5	2.69	0.78

ATTACHMENT E

Laboratory Analytical Reports

Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057

(315) 437-0200

Wednesday, January 07, 2009

Ed Hinchy
ERM Consulting & Engineering
5788 Widewaters Pkwy
Dewitt, NY 13214

TEL: (315) 445-2554

Project: ITHACA DREDGING
RE: Analytical Results

Order No.: 0811131, 0811142
0811166

Dear Ed Hinchy:

Life Science Laboratories, Inc. received samples on 11/18/08, 11/20/08 and on 11/21/08 for the analyses presented in the following report.

Very truly yours,
Life Science Laboratories, Inc.



Anthony Crescenzi
Project Manager

Sample Data Summary Package

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-1

SAMPLE IDENTIFICATION AND
ANALYTICAL SUMMARY

NYS DEC SAMPLE ID	LABORATORY SAMPLE ID	Type	Analytical Requirements					
			VOA GC/MS Method #	BNA GC/MS Method #	VOA GC Method #	MISC GC Method #	METALS Method #	OTHER Method #
lth-3 (6-12)	0811131-001	SAMP	SW8260B	SW8270C		SW8082 SW8081A	SW7471A SW6010B	SM 2540 G
lth-4 (6-12)	0811131-002	SAMP	SW8260B	SW8270C		SW8082 SW8081A	SW7471A SW6010B	SM 2540 G
lth-2 (6-10)	0811131-003	SAMP	SW8260B	SW8270C		SW8082 SW8081A	SW7471A SW6010B	SM 2540 G
lth-2 (10-14)	0811131-004	SAMP	SW8260B	SW8270C		SW8082 SW8081A	SW7471A SW6010B	SM 2540 G
lth-6 (6-10)	0811131-005	SAMP	SW8260B	SW8270C		SW8082 SW8081A	SW7471A SW6010B	SM 2540 G
lth-6 (10-14)	0811131-006	SAMP	SW8260B	SW8270C		SW8082 SW8081A	SW7471A SW6010B	SM 2540 G

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-1

**SAMPLE IDENTIFICATION AND
ANALYTICAL SUMMARY**

NYS DEC SAMPLE ID	LABORATORY SAMPLE ID	Type	Analytical Requirements					
			VOA GC/MS Method #	BNA GC/MS Method #	VOA GC Method #	MISC GC Method #	METALS Method #	OTHER Method #
lth-8 (2-10)	0811142-001	SAMP	SW8260B	SW8270C		SW8082 SW8081A	SW7471A SW6010B	SM 2540 G
lth-8 (10-14)	0811142-002	SAMP	SW8260B	SW8270C		SW8082 SW8081A	SW7471A SW6010B	SM 2540 G
lth-7 (1-14)	0811142-003	SAMP	SW8260B	SW8270C		SW8082 SW8081A	SW7471A SW6010B	SM 2540 G
lth-5 (4-10)	0811142-004	SAMP	SW8260B	SW8270C		SW8082 SW8081A	SW7471A SW6010B	SM 2540 G
lth-5 (10-14)	0811142-005	SAMP	SW8260B	SW8270C		SW8082 SW8081A	SW7471A SW6010B	SM 2540 G
lth-1 (6-12)	0811142-006	SAMP	SW8260B	SW8270C		SW8082 SW8081A	SW7471A SW6010B	SM 2540 G
lth-Dup1	0811142-007	SAMP	SW8260B	SW8270C		SW8082 SW8081A	SW7471A SW6010B	SM 2540 G

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-1

SAMPLE IDENTIFICATION AND ANALYTICAL SUMMARY

NYS DEC SAMPLE ID	LABORATORY SAMPLE ID	Type	Analytical Requirements					
			VOA GC/MS Method #	BNA GC/MS Method #	VOA GC Method #	MISC GC Method #	METALS Method #	OTHER Method #
lth-9 (1-14)	0811166-001	SAMP	SW8260B	SW8270C		SW8082 SW8081A	SW7471A SW6010B	SM 2540 G
lth-10 (1-14)	0811166-002	SAMP	SW8260B	SW8270C		SW8082 SW8081A	SW7471A SW6010B	SM 2540 G
lth-11 (1-14)	0811166-003	SAMP	SW8260B	SW8270C		SW8082 SW8081A	SW7471A SW6010B	SM 2540 G
lth-12 (1-14)	0811166-004	SAMP	SW8260B	SW8270C		SW8082 SW8081A	SW7471A SW6010B	SM 2540 G
lth-16 (1-14)	0811166-005	DUP						SM 2540 G
lth-16 (1-14)	0811166-005	MS	SW8260B	SW8270C		SW8081A SW8082	SW6010B SW7471A	
lth-16 (1-14)	0811166-005	MSD	SW8260B	SW8270C		SW8081A SW8082	SW6010B SW7471A	
lth-16 (1-14)	0811166-005	SAMP	SW8260B	SW8270C		SW8082 SW8081A	SW7471A SW6010B	SM 2540 G
lth-14 (1-14)	0811166-006	SAMP	SW8260B	SW8270C		SW8082 SW8081A	SW7471A SW6010B	SM 2540 G
lth-13 (1-10)	0811166-007	SAMP	SW8260B	SW8270C		SW8082 SW8081A	SW7471A SW6010B	SM 2540 G
lth-13 (10-14)	0811166-008	SAMP	SW8260B	SW8270C		SW8082 SW8081A	SW7471A SW6010B	SM 2540 G
lth-1 (1-6)	0811166-009	SAMP	SW8260B	SW8270C		SW8082 SW8081A	SW7471A SW6010B	SM 2540 G
lth-DUP2	0811166-010	SAMP	SW8260B	SW8270C		SW8082 SW8081A	SW7471A SW6010B	SM 2540 G
lth-2 (1-6)	0811166-011	SAMP	SW8260B	SW8270C		SW8082 SW8081A	SW7471A SW6010B	SM 2540 G
lth-3 (1-6)	0811166-012	SAMP	SW8260B	SW8270C		SW8082 SW8081A	SW7471A SW6010B	SM 2540 G
lth-4 (1-6)	0811166-013	SAMP	SW8260B	SW8270C		SW8082 SW8081A	SW7471A SW6010B	SM 2540 G
lth-6 (1-6)	0811166-014	SAMP	SW8260B	SW8270C		SW8082 SW8081A	SW7471A SW6010B	SM 2540 G

SW8260B

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-IIb

SAMPLE PREPARATION AND ANALYSIS SUMMARY
VOLATILE (VOA) ANALYSES

LABORATORY SAMPLE ID	MATRIX	DATE COLLECTED	DATE REC'D AT LAB	DATE EXTRACTED	DATE ANALYZED
0811131-001A	Soil	11/17/08	11/18/08		11/21/08
0811131-002A	Soil	11/18/08	11/18/08		11/21/08
0811131-003A	Soil	11/18/08	11/18/08		11/21/08
0811131-003C	Soil	11/18/08	11/18/08		11/24/08
0811131-004A	Soil	11/18/08	11/18/08		11/24/08
0811131-005A	Soil	11/18/08	11/18/08		11/24/08
0811131-006A	Soil	11/18/08	11/18/08		11/21/08
0811142-001A	Soil	11/19/08	11/20/08		11/21/08
0811142-001ARA	Soil	11/19/08	11/20/08		11/24/08
0811142-002A	Soil	11/19/08	11/20/08		11/24/08
0811142-003A	Soil	11/19/08	11/20/08		11/21/08
0811142-004A	Soil	11/19/08	11/20/08		11/21/08
0811142-005A	Soil	11/19/08	11/20/08		11/21/08
0811142-006A	Soil	11/19/08	11/20/08		11/21/08
0811142-007A	Soil	11/19/08	11/20/08		11/21/08
0811166-001A	Soil	11/20/08	11/21/08		11/24/08
0811166-002A	Soil	11/20/08	11/21/08		11/24/08
0811166-003A	Soil	11/20/08	11/21/08		11/25/08
0811166-004A	Soil	11/20/08	11/21/08		11/24/08
0811166-005A	Soil	11/20/08	11/21/08		11/25/08
0811166-005AMS	Soil	11/20/08	11/21/08		11/25/08
0811166-005AMSD	Soil	11/20/08	11/21/08		11/25/08
0811166-006A	Soil	11/21/08	11/21/08		11/24/08
0811166-007A	Soil	11/21/08	11/21/08		11/24/08
0811166-008A	Soil	11/21/08	11/21/08		11/24/08
0811166-009A	Soil	11/20/08	11/21/08		11/25/08
0811166-010A	Soil	11/20/08	11/21/08		11/25/08
0811166-011ARA	Soil	11/20/08	11/21/08		11/25/08
0811166-011A	Soil	11/20/08	11/21/08		11/25/08
0811166-012A	Soil	11/20/08	11/21/08		11/26/08
0811166-013A	Soil	11/20/08	11/21/08		11/25/08
0811166-014A	Soil	11/20/08	11/21/08		11/25/08

SW8260B

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-III

SAMPLE PREPARATION AND ANALYSIS SUMMARY
VOLATILE ANALYSES

LABORATORY SAMPLE ID	MATRIX	ANALYTICAL PROTOCOL	EXTRACTION METHOD	AUXILIARY CLEANUP	DIL/CONC FACTOR
0811131-001A	Soil	SW8260B	NONE	NONE	0.96X
0811131-002A	Soil	SW8260B	NONE	NONE	0.75X
0811131-003A	Soil	SW8260B	NONE	NONE	0.66X
0811131-003C	Soil	SW8260B	NONE	NONE	2.3X
0811131-004A	Soil	SW8260B	NONE	NONE	0.91X
0811131-005A	Soil	SW8260B	NONE	NONE	1.47X
0811131-006A	Soil	SW8260B	NONE	NONE	0.98X
0811142-001A	Soil	SW8260B	NONE	NONE	1.13X
0811142-001ARA	Soil	SW8260B	NONE	NONE	0.8X
0811142-002A	Soil	SW8260B	NONE	NONE	0.56X
0811142-003A	Soil	SW8260B	NONE	NONE	1.13X
0811142-004A	Soil	SW8260B	NONE	NONE	0.91X
0811142-005A	Soil	SW8260B	NONE	NONE	0.8X
0811142-006A	Soil	SW8260B	NONE	NONE	0.72X
0811142-007A	Soil	SW8260B	NONE	NONE	1.01X
0811166-001A	Soil	SW8260B	NONE	NONE	0.96X
0811166-002A	Soil	SW8260B	NONE	NONE	0.71X
0811166-003A	Soil	SW8260B	NONE	NONE	0.9X
0811166-004A	Soil	SW8260B	NONE	NONE	0.92X
0811166-005A	Soil	SW8260B	NONE	NONE	0.82X
0811166-005AMS	Soil	SW8260B	NONE	NONE	0.94X
0811166-005AMSD	Soil	SW8260B	NONE	NONE	0.8X
0811166-006A	Soil	SW8260B	NONE	NONE	0.79X
0811166-007A	Soil	SW8260B	NONE	NONE	0.56X
0811166-008A	Soil	SW8260B	NONE	NONE	0.72X
0811166-009A	Soil	SW8260B	NONE	NONE	0.77X
0811166-010A	Soil	SW8260B	NONE	NONE	0.76X
0811166-011A	Soil	SW8260B	NONE	NONE	0.74X
0811166-011ARA	Soil	SW8260B	NONE	NONE	0.86X
0811166-012A	Soil	SW8260B	NONE	NONE	0.92X
0811166-013A	Soil	SW8260B	NONE	NONE	0.77X
0811166-014A	Soil	SW8260B	NONE	NONE	0.76X

SW8270C

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-IIa

SAMPLE PREPARATION AND ANALYSIS SUMMARY
SEMIVOLATILE (BNA) ANALYSES

LABORATORY SAMPLE ID	MATRIX	DATE COLLECTED	DATE REC'D AT LAB	DATE EXTRACTED	DATE ANALYZED
0811131-001D	Soil	11/17/08	11/18/08	11/21/08	12/01/08
0811131-002D	Soil	11/18/08	11/18/08	11/21/08	12/01/08
0811131-003D	Soil	11/18/08	11/18/08	11/21/08	12/01/08
0811131-003DDL	Soil	11/18/08	11/18/08	11/21/08	12/01/08
0811131-004D	Soil	11/18/08	11/18/08	11/21/08	12/01/08
0811131-005D	Soil	11/18/08	11/18/08	11/21/08	12/01/08
0811131-006D	Soil	11/18/08	11/18/08	11/21/08	12/01/08
0811142-001D	Soil	11/19/08	11/20/08	11/21/08	12/01/08
0811142-002D	Soil	11/19/08	11/20/08	11/21/08	12/01/08
0811142-003D	Soil	11/19/08	11/20/08	11/21/08	12/01/08
0811142-004D	Soil	11/19/08	11/20/08	11/21/08	12/01/08
0811142-005D	Soil	11/19/08	11/20/08	11/21/08	12/01/08
0811142-006D	Soil	11/19/08	11/20/08	11/21/08	12/01/08
0811142-007D	Soil	11/19/08	11/20/08	11/21/08	12/01/08
0811166-001D	Soil	11/20/08	11/21/08	11/24/08	12/03/08
0811166-002D	Soil	11/20/08	11/21/08	11/24/08	12/03/08
0811166-003D	Soil	11/20/08	11/21/08	11/24/08	12/03/08
0811166-004D	Soil	11/20/08	11/21/08	11/24/08	12/03/08
0811166-005D	Soil	11/20/08	11/21/08	11/24/08	12/03/08
0811166-005DMS	Soil	11/20/08	11/21/08	11/24/08	12/03/08
0811166-005DMSD	Soil	11/20/08	11/21/08	11/24/08	12/03/08
0811166-006D	Soil	11/21/08	11/21/08	11/24/08	12/03/08
0811166-007D	Soil	11/21/08	11/21/08	11/24/08	12/03/08
0811166-008D	Soil	11/21/08	11/21/08	11/24/08	12/03/08
0811166-009D	Soil	11/20/08	11/21/08	11/24/08	12/03/08
0811166-010D	Soil	11/20/08	11/21/08	11/24/08	12/03/08
0811166-011D	Soil	11/20/08	11/21/08	11/24/08	12/03/08
0811166-012D	Soil	11/20/08	11/21/08	11/24/08	12/04/08
0811166-013D	Soil	11/20/08	11/21/08	11/24/08	12/03/08
0811166-014D	Soil	11/20/08	11/21/08	11/24/08	12/03/08

SW8270C

**NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
FORM S-III**

**SAMPLE PREPARATION AND ANALYSIS SUMMARY
SEMIVOLATILE (BNA) ANALYSES**

LABORATORY SAMPLE ID	MATRIX	ANALYTICAL PROTOCOL	EXTRACTION METHOD	AUXILIARY CLEANUP	DIL/CONC FACTOR
0811131-001D	Soil	SW8270C	SW3550B	NONE	1X
0811131-002D	Soil	SW8270C	SW3550B	NONE	1X
0811131-003D	Soil	SW8270C	SW3550B	NONE	1X
0811131-003DDL	Soil	SW8270C	SW3550B	NONE	10X
0811131-004D	Soil	SW8270C	SW3550B	NONE	1X
0811131-005D	Soil	SW8270C	SW3550B	NONE	1X
0811131-006D	Soil	SW8270C	SW3550B	NONE	1X
0811142-001D	Soil	SW8270C	SW3550B	NONE	1X
0811142-002D	Soil	SW8270C	SW3550B	NONE	1X
0811142-003D	Soil	SW8270C	SW3550B	NONE	1X
0811142-004D	Soil	SW8270C	SW3550B	NONE	1X
0811142-005D	Soil	SW8270C	SW3550B	NONE	1X
0811142-006D	Soil	SW8270C	SW3550B	NONE	1X
0811142-007D	Soil	SW8270C	SW3550B	NONE	1X
0811166-001D	Soil	SW8270C	SW3550B	NONE	1X
0811166-002D	Soil	SW8270C	SW3550B	NONE	1X
0811166-003D	Soil	SW8270C	SW3550B	NONE	1X
0811166-004D	Soil	SW8270C	SW3550B	NONE	1X
0811166-005D	Soil	SW8270C	SW3550B	NONE	1X
0811166-005DMS	Soil	SW8270C	SW3550B	NONE	1X
0811166-005DMSD	Soil	SW8270C	SW3550B	NONE	1X
0811166-006D	Soil	SW8270C	SW3550B	NONE	1X
0811166-007D	Soil	SW8270C	SW3550B	NONE	1X
0811166-008D	Soil	SW8270C	SW3550B	NONE	1X
0811166-009D	Soil	SW8270C	SW3550B	NONE	1X
0811166-010D	Soil	SW8270C	SW3550B	NONE	1X
0811166-011D	Soil	SW8270C	SW3550B	NONE	1X
0811166-012D	Soil	SW8270C	SW3550B	NONE	1X
0811166-013D	Soil	SW8270C	SW3550B	NONE	1X
0811166-014D	Soil	SW8270C	SW3550B	NONE	1X

SW8081A

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-IIc

SAMPLE PREPARATION AND ANALYSIS SUMMARY
GC SEMI-VOLATILE ANALYSES

LABORATORY SAMPLE ID	MATRIX	DATE COLLECTED	DATE REC'D AT LAB	DATE EXTRACTED	DATE ANALYZED
0811131-001D	Soil	11/17/08	11/18/08	11/21/08	12/19/08
0811131-002D	Soil	11/18/08	11/18/08	11/21/08	12/19/08
0811131-003D	Soil	11/18/08	11/18/08	11/21/08	12/19/08
0811131-004D	Soil	11/18/08	11/18/08	11/21/08	12/19/08
0811131-005D	Soil	11/18/08	11/18/08	11/21/08	12/19/08
0811131-006D	Soil	11/18/08	11/18/08	11/21/08	12/19/08
0811142-001D	Soil	11/19/08	11/20/08	11/21/08	12/19/08
0811142-002D	Soil	11/19/08	11/20/08	11/21/08	12/19/08
0811142-003D	Soil	11/19/08	11/20/08	11/21/08	12/19/08
0811142-004D	Soil	11/19/08	11/20/08	11/21/08	12/19/08
0811142-005D	Soil	11/19/08	11/20/08	11/21/08	12/19/08
0811142-006D	Soil	11/19/08	11/20/08	11/21/08	12/19/08
0811142-007D	Soil	11/19/08	11/20/08	11/21/08	12/19/08
0811166-001D	Soil	11/20/08	11/21/08	11/24/08	12/19/08
0811166-002D	Soil	11/20/08	11/21/08	11/24/08	12/19/08
0811166-003D	Soil	11/20/08	11/21/08	11/24/08	12/20/08
0811166-004D	Soil	11/20/08	11/21/08	11/24/08	12/20/08
0811166-005D	Soil	11/20/08	11/21/08	11/24/08	12/20/08
0811166-006D	Soil	11/21/08	11/21/08	11/24/08	12/20/08
0811166-007D	Soil	11/21/08	11/21/08	11/24/08	12/20/08
0811166-008D	Soil	11/21/08	11/21/08	11/24/08	12/20/08
0811166-009D	Soil	11/20/08	11/21/08	11/24/08	12/20/08
0811166-010D	Soil	11/20/08	11/21/08	11/24/08	12/20/08
0811166-011D	Soil	11/20/08	11/21/08	11/24/08	12/20/08
0811166-012D	Soil	11/20/08	11/21/08	11/24/08	12/20/08
0811166-013D	Soil	11/20/08	11/21/08	11/24/08	12/20/08
0811166-014D	Soil	11/20/08	11/21/08	11/24/08	12/20/08

SW8081A

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-III

SAMPLE PREPARATION AND ANALYSIS SUMMARY

GC SEMI-VOLATILE ANALYSES

LABORATORY SAMPLE ID	MATRIX	ANALYTICAL PROTOCOL	EXTRACTION METHOD	AUXILIARY CLEANUP	DIL/CONC FACTOR
0811131-001D	Soil	SW8081A	SW3550B	GPC, Florisil	1X
0811131-002D	Soil	SW8081A	SW3550B	GPC, Florisil	1X
0811131-003D	Soil	SW8081A	SW3550B	GPC, Florisil	1X
0811131-004D	Soil	SW8081A	SW3550B	GPC, Florisil	1X
0811131-005D	Soil	SW8081A	SW3550B	GPC, Florisil	1X
0811131-006D	Soil	SW8081A	SW3550B	GPC, Florisil	1X
0811142-001D	Soil	SW8081A	SW3550B	GPC, Florisil	1X
0811142-002D	Soil	SW8081A	SW3550B	GPC, Florisil	1X
0811142-003D	Soil	SW8081A	SW3550B	GPC, Florisil	1X
0811142-004D	Soil	SW8081A	SW3550B	GPC, Florisil	1X
0811142-005D	Soil	SW8081A	SW3550B	GPC, Florisil	1X
0811142-006D	Soil	SW8081A	SW3550B	GPC, Florisil	1X
0811142-007D	Soil	SW8081A	SW3550B	GPC, Florisil	1X
0811166-001D	Soil	SW8081A	SW3550B	GPC, Florisil	1X
0811166-002D	Soil	SW8081A	SW3550B	GPC, Florisil	1X
0811166-003D	Soil	SW8081A	SW3550B	GPC, Florisil	1X
0811166-004D	Soil	SW8081A	SW3550B	GPC, Florisil	1X
0811166-005D	Soil	SW8081A	SW3550B	GPC, Florisil	1X
0811166-006D	Soil	SW8081A	SW3550B	GPC, Florisil	1X
0811166-007D	Soil	SW8081A	SW3550B	GPC, Florisil	1X
0811166-008D	Soil	SW8081A	SW3550B	GPC, Florisil	1X
0811166-009D	Soil	SW8081A	SW3550B	GPC, Florisil	1X
0811166-010D	Soil	SW8081A	SW3550B	GPC, Florisil	1X
0811166-011D	Soil	SW8081A	SW3550B	GPC, Florisil	1X
0811166-012D	Soil	SW8081A	SW3550B	GPC, Florisil	1X
0811166-013D	Soil	SW8081A	SW3550B	GPC, Florisil	1X
0811166-014D	Soil	SW8081A	SW3550B	GPC, Florisil	1X

SW8082

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
FORM S-IIc

SAMPLE PREPARATION AND ANALYSIS SUMMARY
GC SEMI-VOLATILE ANALYSES

LABORATORY SAMPLE ID	MATRIX	DATE COLLECTED	DATE REC'D AT LAB	DATE EXTRACTED	DATE ANALYZED
0811131-001D	Soil	11/17/08	11/18/08	11/21/08	12/01/08
0811131-002D	Soil	11/18/08	11/18/08	11/21/08	12/01/08
0811131-003D	Soil	11/18/08	11/18/08	11/21/08	12/01/08
0811131-004D	Soil	11/18/08	11/18/08	11/21/08	12/01/08
0811131-005D	Soil	11/18/08	11/18/08	11/21/08	12/01/08
0811131-006D	Soil	11/18/08	11/18/08	11/21/08	12/01/08
0811142-001D	Soil	11/19/08	11/20/08	11/21/08	12/01/08
0811142-002D	Soil	11/19/08	11/20/08	11/21/08	12/01/08
0811142-003D	Soil	11/19/08	11/20/08	11/21/08	12/01/08
0811142-004D	Soil	11/19/08	11/20/08	11/21/08	12/01/08
0811142-005D	Soil	11/19/08	11/20/08	11/21/08	12/02/08
0811142-006D	Soil	11/19/08	11/20/08	11/21/08	12/02/08
0811142-007D	Soil	11/19/08	11/20/08	11/21/08	12/02/08
0811166-001D	Soil	11/20/08	11/21/08	11/24/08	12/12/08
0811166-002D	Soil	11/20/08	11/21/08	11/24/08	12/12/08
0811166-003D	Soil	11/20/08	11/21/08	11/24/08	12/12/08
0811166-004D	Soil	11/20/08	11/21/08	11/24/08	12/12/08
0811166-005D	Soil	11/20/08	11/21/08	11/24/08	12/12/08
0811166-006D	Soil	11/21/08	11/21/08	11/24/08	12/12/08
0811166-007D	Soil	11/21/08	11/21/08	11/24/08	12/12/08
0811166-008D	Soil	11/21/08	11/21/08	11/24/08	12/12/08
0811166-009D	Soil	11/20/08	11/21/08	11/24/08	12/12/08
0811166-010D	Soil	11/20/08	11/21/08	11/24/08	12/12/08
0811166-011D	Soil	11/20/08	11/21/08	11/24/08	12/12/08
0811166-012D	Soil	11/20/08	11/21/08	11/24/08	12/12/08
0811166-013D	Soil	11/20/08	11/21/08	11/24/08	12/12/08
0811166-014D	Soil	11/20/08	11/21/08	11/24/08	12/12/08

SW8082

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-III

SAMPLE PREPARATION AND ANALYSIS SUMMARY

GC SEMI-VOLATILE ANALYSES

LABORATORY SAMPLE ID	MATRIX	ANALYTICAL PROTOCOL	EXTRACTION METHOD	AUXILIARY CLEANUP	DIL/CONC FACTOR
0811131-001D	Soil	SW8082	SW3550B	GPC, Acid wash, Cu Clean	1X
0811131-002D	Soil	SW8082	SW3550B	GPC, Acid wash, Cu Clean	1X
0811131-003D	Soil	SW8082	SW3550B	GPC, Acid wash, Cu Clean	1X
0811131-004D	Soil	SW8082	SW3550B	GPC, Acid wash, Cu Clean	1X
0811131-005D	Soil	SW8082	SW3550B	GPC, Acid wash, Cu Clean	1X
0811131-006D	Soil	SW8082	SW3550B	GPC, Acid wash, Cu Clean	1X
0811142-001D	Soil	SW8082	SW3550B	GPC, Acid wash, Cu Clean	1X
0811142-002D	Soil	SW8082	SW3550B	GPC, Acid wash, Cu Clean	1X
0811142-003D	Soil	SW8082	SW3550B	GPC, Acid wash, Cu Clean	1X
0811142-004D	Soil	SW8082	SW3550B	GPC, Acid wash, Cu Clean	1X
0811142-005D	Soil	SW8082	SW3550B	GPC, Acid wash, Cu Clean	1X
0811142-006D	Soil	SW8082	SW3550B	GPC, Acid wash, Cu Clean	1X
0811142-007D	Soil	SW8082	SW3550B	GPC, Acid wash, Cu Clean	1X
0811166-001D	Soil	SW8082	SW3550B	GPC, Acid Wash, Cu Clean	1X
0811166-002D	Soil	SW8082	SW3550B	GPC, Acid Wash, Cu Clean	1X
0811166-003D	Soil	SW8082	SW3550B	GPC, Acid Wash, Cu Clean	1X
0811166-004D	Soil	SW8082	SW3550B	GPC, Acid Wash, Cu Clean	1X
0811166-005D	Soil	SW8082	SW3550B	GPC, Acid Wash, Cu Clean	1X
0811166-006D	Soil	SW8082	SW3550B	GPC, Acid Wash, Cu Clean	1X
0811166-007D	Soil	SW8082	SW3550B	GPC, Acid Wash, Cu Clean	1X
0811166-008D	Soil	SW8082	SW3550B	GPC, Acid Wash, Cu Clean	1X
0811166-009D	Soil	SW8082	SW3550B	GPC, Acid Wash, Cu Clean	1X
0811166-010D	Soil	SW8082	SW3550B	GPC, Acid Wash, Cu Clean	1X
0811166-011D	Soil	SW8082	SW3550B	GPC, Acid Wash, Cu Clean	1X
0811166-012D	Soil	SW8082	SW3550B	GPC, Acid Wash, Cu Clean	1X
0811166-013D	Soil	SW8082	SW3550B	GPC, Acid Wash, Cu Clean	1X
0811166-014D	Soil	SW8082	SW3550B	GPC, Acid Wash, Cu Clean	1X

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-IV

**SAMPLE PREPARATION AND ANALYSIS SUMMARY
INORGANIC ANALYSES**

LABORATORY SAMPLE ID	MATRIX	METALS REQUESTED	DATE REC'D AT LAB	DATE DIGESTED	DATE ANALYZED
0811131-001D	Soil	As Cd Cr Cu Ni Pb Zn	11/18/2008	12/02/2008	12/03/2008
0811131-002D	Soil	As Cd Cr Cu Ni Pb Zn	11/18/2008	12/02/2008	12/03/2008
0811131-003D	Soil	As Cd Cr Cu Ni Pb Zn	11/18/2008	12/02/2008	12/03/2008
0811131-004D	Soil	As Cd Cr Cu Ni Pb Zn	11/18/2008	12/02/2008	12/03/2008
0811131-005D	Soil	As Cd Cr Cu Ni Pb Zn	11/18/2008	12/02/2008	12/03/2008
0811131-006D	Soil	As Cd Cr Cu Ni Pb Zn	11/18/2008	12/02/2008	12/03/2008
0811142-001D	Soil	As Cd Cr Cu Ni Pb Zn	11/20/2008	12/02/2008	12/03/2008
0811142-002D	Soil	As Cd Cr Cu Ni Pb Zn	11/20/2008	12/02/2008	12/03/2008
0811142-003D	Soil	As Cd Cr Cu Ni Pb Zn	11/20/2008	12/02/2008	12/03/2008
0811142-004D	Soil	As Cd Cr Cu Ni Pb Zn	11/20/2008	12/02/2008	12/03/2008
0811142-005D	Soil	As Cd Cr Cu Ni Pb Zn	11/20/2008	12/02/2008	12/03/2008
0811142-006D	Soil	As Cd Cr Cu Ni Pb Zn	11/20/2008	12/02/2008	12/03/2008
0811142-007D	Soil	As Cd Cr Cu Ni Pb Zn	11/20/2008	12/02/2008	12/03/2008
0811166-001D	Soil	As Cd Cr Cu Ni Pb Zn	11/21/2008	12/02/2008	12/03/2008
0811166-002D	Soil	As Cd Cr Cu Ni Pb Zn	11/21/2008	12/02/2008	12/03/2008
0811166-003D	Soil	As Cd Cr Cu Ni Pb Zn	11/21/2008	12/02/2008	12/03/2008
0811166-004D	Soil	As Cd Cr Cu Ni Pb Zn	11/21/2008	12/02/2008	12/03/2008
0811166-005D	Soil	As Cd Cr Cu Ni Pb Zn	11/21/2008	12/02/2008	12/03/2008
0811166-005DMS	Soil	As Cd Cr Cu Ni Pb Zn	11/21/2008	12/02/2008	12/03/2008
0811166-005DMSD	Soil	As Cd Cr Cu Ni Pb Zn	11/21/2008	12/02/2008	12/03/2008
0811166-006D	Soil	As Cd Cr Cu Ni Pb Zn	11/21/2008	12/02/2008	12/03/2008
0811166-007D	Soil	As Cd Cr Cu Ni Pb Zn	11/21/2008	12/02/2008	12/03/2008
0811166-008D	Soil	As Cd Cr Cu Ni Pb Zn	11/21/2008	12/02/2008	12/03/2008
0811166-009D	Soil	As Cd Cr Cu Ni Pb Zn	11/21/2008	12/02/2008	12/03/2008
0811166-010D	Soil	As Cd Cr Cu Ni Pb Zn	11/21/2008	12/02/2008	12/03/2008
0811166-011D	Soil	As Cd Cr Cu Ni Pb Zn	11/21/2008	12/02/2008	12/03/2008
0811166-012D	Soil	As Cd Cr Cu Ni Pb Zn	11/21/2008	12/02/2008	12/03/2008
0811166-013D	Soil	As Cd Cr Cu Ni Pb Zn	11/21/2008	12/02/2008	12/03/2008
0811166-014D	Soil	As Cd Cr Cu Ni Pb Zn	11/21/2008	12/02/2008	12/03/2008

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-IV

**SAMPLE PREPARATION AND ANALYSIS SUMMARY
INORGANIC ANALYSES**

LABORATORY SAMPLE ID	MATRIX	METALS REQUESTED	DATE REC'D AT LAB	DATE DIGESTED	DATE ANALYZED
0811131-001D	Soil	Hg	11/18/2008	12/01/2008	12/03/2008
0811131-002D	Soil	Hg	11/18/2008	12/01/2008	12/03/2008
0811131-003D	Soil	Hg	11/18/2008	12/01/2008	12/03/2008
0811131-004D	Soil	Hg	11/18/2008	12/01/2008	12/03/2008
0811131-005D	Soil	Hg	11/18/2008	12/01/2008	12/03/2008
0811131-006D	Soil	Hg	11/18/2008	12/01/2008	12/03/2008
0811142-001D	Soil	Hg	11/20/2008	12/01/2008	12/03/2008
0811142-002D	Soil	Hg	11/20/2008	12/01/2008	12/03/2008
0811142-003D	Soil	Hg	11/20/2008	12/01/2008	12/03/2008
0811142-004D	Soil	Hg	11/20/2008	12/01/2008	12/03/2008
0811142-004DMS	Soil	Hg	11/20/2008	12/01/2008	12/03/2008
0811142-004DMSD	Soil	Hg	11/20/2008	12/01/2008	12/03/2008
0811142-005D	Soil	Hg	11/20/2008	12/01/2008	12/03/2008
0811142-006D	Soil	Hg	11/20/2008	12/01/2008	12/03/2008
0811142-007D	Soil	Hg	11/20/2008	12/01/2008	12/03/2008
0811166-001D	Soil	Hg	11/21/2008	12/01/2008	12/03/2008
0811166-002D	Soil	Hg	11/21/2008	12/01/2008	12/03/2008
0811166-003D	Soil	Hg	11/21/2008	12/01/2008	12/03/2008
0811166-004D	Soil	Hg	11/21/2008	12/01/2008	12/03/2008
0811166-005D	Soil	Hg	11/21/2008	12/01/2008	12/03/2008
0811166-005DMS	Soil	Hg	11/21/2008	12/01/2008	12/03/2008
0811166-005DMSD	Soil	Hg	11/21/2008	12/01/2008	12/03/2008
0811166-006D	Soil	Hg	11/21/2008	12/01/2008	12/03/2008
0811166-006D	Soil	Hg	11/21/2008	12/01/2008	12/03/2008
0811166-007D	Soil	Hg	11/21/2008	12/01/2008	12/03/2008
0811166-008D	Soil	Hg	11/21/2008	12/01/2008	12/03/2008
0811166-009D	Soil	Hg	11/21/2008	12/01/2008	12/03/2008
0811166-010D	Soil	Hg	11/21/2008	12/01/2008	12/03/2008
0811166-011D	Soil	Hg	11/21/2008	12/01/2008	12/03/2008
0811166-012D	Soil	Hg	11/21/2008	12/01/2008	12/03/2008
0811166-013D	Soil	Hg	11/21/2008	12/01/2008	12/03/2008
0811166-014D	Soil	Hg	11/21/2008	12/01/2008	12/03/2008

Project Management Case Narrative

INTRODUCTION/ANALYTICAL RESULTS

This report summarizes the laboratory results for ERM Consulting & Engineering, Ithaca Dredging Project. New York State Department of Environmental Conservation forms are included in the Sample Data Summary Package.

CONDITION UPON RECEIPT/CHAIN OF CUSTODY

The cooler(s) were received intact. When the cooler(s) were received by the laboratory, the sample custodian(s) opened and inspected the shipment(s) for damage and custody inconsistencies. Chain of custody documenting receipt are presented in the chain of custody section. Each sample was assigned a unique laboratory number and a custody file created. The samples were placed in a secured walk-in cooler and signed in and out by the chemists performing the tests. The sign out record, or lab chronicle, is presented in the chain of custody section.

No discrepancies were noted upon receipt. The temperature of the iced cooler was 2.6°C.

METHODOLOGY

The following methods were used to perform the analyses:

PARAMETER	METHOD	REFERENCE
Volatile Organics	SW8260B	1
Semivolatile Organics	SW8270C	1
Pesticide	SW8081	1
PCB	SW8082	1
ICP Metals	SW6010B	1
Mercury	SW7471A	1

- 1) New York State Department of Environmental Conservation Analytical Services Protocol, June 2000.

QUALITY CONTROL

QA/QC results are summarized in the Laboratory Report Package and are also included in the raw data.

RAW DATA

The raw data is organized in the New York State Department of Environmental Conservation Analytical Services Protocol Category "B" order of data requirements.

Total # of pages in this report _____

GC/MS Volatile Organics Case Narrative

Client: ERM
Project/Order: Ithaca Dredging
Work Order #: 0811131, 0811142, 0811166
Methodology: 8260B/5035A

Analyzed/Reviewed by (Initials/Date): AM 12-18-08

Supervisor/Reviewed by (Initials/Date): AM 12-18-08

QA/QC Review (Initials/Date): acfn LK 12-22-08

File Name: G:\Narratives\MSVoa\0811131Bmsvnr.doc

GC/MS Volatile Organics

The GC/MS Volatile instruments are equipped with a Restek Rtx-VMS, 40 m x 0.18 mm ID capillary column (MS01 & MS03), Restek Rtx-502.2, 105 m x 0.53 mm ID capillary column (MS02), and Restek Rtx-VMS, 60 m x 0.25mm ID capillary column (MS04), and a Vocarb 3000 adsorbent trap.

Holding Times and Sample Preservation

All samples were prepared and analyzed within the method and/or QAPP specified holding time requirements.

Laboratory Control Sample

The following compound(s) did not meet laboratory control sample recovery criteria:

LCS No.	Compound	Corrective Action
LCS-15620	Benzene	1
LCS-15645	Benzene	1
	Toluene	1

- 1 The recovery marginally exceeded the lower control limit and was not detected above the PQL/RL in the associated samples. No corrective action was taken.

MS/MSD/MSB

All spike recovery and RPD data met method and/or project specific QC criteria.

Surrogate Standards

The following sample(s) did not meet surrogate recovery criteria:

Sample Description	Sample #	Surrogate	Corrective Action
Ith-2 (6-10)	0811131-003A	4-Bromofluorobenzene	1
Ith-8 (2-10)	0811142-001A	4-Bromofluorobenzene	2

- 1 The recovery met acceptance criteria when reanalyzed at a higher dilution on an aliquot from the bulk container [0811131-003C]. Matrix interference is suspected. Both sets of data are reported. No further corrective action was taken.
- 2 The sample met criteria for this surrogate when previously analyzed at the same dilution. Both

GC/MS Volatile Organics Case Narrative - Page 2

Client: ERM
Project/Order: Ithaca Dredging
Work Order #: 0811131, 0811142, 0811166
Methodology: 8260B/5035A

analyses are reported for confirmation of internal standard criteria.

Internal Standards

The internal standard area for the following sample(s) did not meet abundance criteria:

Sample Description	Sample #	Internal Standard	Corrective Action
Ith-2 (6-10)	0811131-003A	1,4-Dichlorobenzene-d4	1
Ith-8 (2-10)	0811142-001A	1,4-Dichlorobenzene-d4	2
Ith-2 (1-6)	0811166-011A	1,4-Dichlorobenzene-d4	2

- 1 The recovery met acceptance criteria when reanalyzed at a higher dilution on an aliquot from the bulk container [0811131-003C]. Matrix interference is suspected. Both sets of data are reported. No further corrective action was taken.
- 2 The recovery was confirmed by analysis of the sample at the same dilution. Both sets of data are reported. No further corrective action was taken.

Calibrations

All initial calibrations and calibration verifications met method and/or project specific QC criteria.

Preparation Blanks

All preparation blanks met method and/or project specific QC criteria.

GC/MS Semi-Volatile Organics Case Narrative

Client ID: ERM
Project/Order: Ithaca Dredging
Work Order #: 0811131,0811142,0811166
Methodology: 8270C

Analyzed/Reviewed by (Initials/Date): MD 12/5/08
Supervisor/Reviewed by (Initials/Date): DD 12-14-08
QA/QC Review (Initials/Date): Sh 12/17/08

File Name: G:\Narratives\MSSemi\0811131svnar.doc

GC/MS Semi-Volatile Organics

The GC/MS Semi-volatile instruments used a J & W DB-5MS, 30 m x 0.25 mm ID capillary column.

Holding Times and Sample Preservation

All samples were prepared and analyzed within the method and/or QAPP specified holding time requirements.

Laboratory Control Sample

All spike recoveries met method and/or project specific QC criteria.

MS/MSD/MSB

All spike recovery and RPD data met method and/or project specific QC criteria.

Surrogate Standards

All surrogate standard recoveries met method and/or project specific QC criteria.

Internal Standards

The internal standard area for the following sample(s) did not meet abundance criteria:

Sample Description	Sample #	Internal Standard	Corrective Action
Ith-2(6-10)	0811131-003D	Perylene-d12	1

- 1 The recovery met acceptance criteria when reanalyzed at a higher dilution. Matrix interference is suspected. Both sets of data are reported. No further corrective action was taken.

Calibrations

All initial calibrations and calibration verifications met method and/or project specific QC criteria.

Preparation Blanks

All preparation blanks met method and/or project specific QC criteria.

Miscellaneous

The breakdown of DDT in the tune analysis for 12/3/08[TD120308A6] could not be calculated due to the elution of an extraneous interference peak. The tune analysis was scanned for ions representing potential breakdown and included in the raw data. Results were within criteria. No corrective action was taken.

GC Semivolatile Organics Case Narrative - Page 1

Client: ERM
 Project/Order: Ithaca Dredging
 Work Order: 0811131, 0811142, 0811166
 Methodology: 8081

Analyzed/Reviewed by (Initials/Date): SSC 1/2/09

Supervisor/Reviewed by (Initials/Date): (ID) 1-2-09

QA/QC Review (Initials/Date): JK 1/2/09

File Name: G:\Narratives\GCsemi\0811131B pest.doc

Pesticides

Holding Times

All samples were prepared and analyzed within the method and/or QAPP specified holding time requirements.

Laboratory Control Samples

The following compound(s) did not meet laboratory control sample recovery criteria:

LCS No.	Compound	Column	Corrective Action
LCSD-8505	gamma-Chlordane	RTX-CLP2	1

- The compound failed high, was not detected in any samples, and passed on the RTX-CLP column. No corrective action was taken.

MS/MSD

The following compound(s) did not meet matrix spike/matrix spike duplicate percent recovery and/or RPD criteria:

Sample Description	Sample #	Compound	% REC	RPD	Corrective Action
[Ith-16(1-14)MS]	0811166-005DMS	gamma-Chlordane	X		1
[Ith-16(1-14)MSD]	0811166-005DMSD	gamma-Chlordane	X		1

- The compound failed high, was not detected in any samples, and passed on the RTX-CLP column. No corrective action was taken.

Surrogates

All surrogate recoveries met method and/or project specific criteria.

GC Semivolatile Organics Case Narrative - Page 2

Client: ERM
Project/Order: Ithaca Dredging
Work Order: 0811131, 0811142, 0811166
Methodology: 8081

Calibrations

All calibrations and calibration verifications met method and/or project specific QC criteria.

Preparation Blanks

All preparation blanks met method and/or project specific QC criteria.

GC Semivolatile Organics Case Narrative - Page 1

Client: ERM
Project/Order: Ithaca Dredging
Work Order: 0811131, 0811142, 0811166
Methodology: 8082

Analyzed/Reviewed by (Initials/Date): STC 12/16/08
Supervisor/Reviewed by (Initials/Date): [Signature] 12-17-08
QA/QC Review (Initials/Date): [Signature] 12/18/08

File Name: G:\Narratives\GCSEMI\0811131Bpcb.doc

PCBs

Holding Times

All samples were prepared and analyzed within the method and/or QAPP specified holding time requirements.

Laboratory Control Samples

All spike recoveries met method and/or project specific QC criteria.

MS/MSD

All spike recovery and RPD data met method and/or project specific QC criteria.

Surrogates

All surrogate recoveries met method and/or project specific criteria.

The following samples did not meet criteria for surrogate recoveries for Tetrachloro-m-xylene (TCMX) and/or Decachlorobiphenyl (DCBP):

Sample Description	Sample #	Column	Corrective Action
[Ith-1(6-12)]	0811142-006D	DB-1701	1
[Ith-Dup1]	0811142-007D	DB-1701	1

- 1. One of the two surrogates met criteria, therefore no corrective action was taken.

Calibrations

All calibrations and calibration verifications met method and/or project specific QC criteria.

Preparation Blanks

All preparation blanks met method and/or project specific QC criteria.

Trace Metals Case Narrative

Client ID: ERM
Project/Order: Ithaca Dredging
Work Order #: 0811131,0811142,0811166
Methodology: ICP metals – SW 6010B

Analyzed/Reviewed by (Date/Initials): 12-11-08 CT

Supervisor/Reviewed by (Date/Initials): 12-11-08 [Signature]

QA/QC Review (Date/Initials): 12/11/08 [Signature]

Trace Metals

There were no excursions to note. All QC results were within established control limits.

Trace Metals Case Narrative

Client ID: ERM
Project/Order: Ithaca Dredging
Work Order: 0811131,0811142,0811166
Methodology: Mercury – SW 7471A

Analyzed/Reviewed by (Date/Initials): 12-12-08 CT

Supervisor/Reviewed by (Date/Initials): 12-12-08 wt

QA/QC Review (Date/Initials):

12/12/08 *sh*

Trace Metals

Holding Times

All samples were prepared and analyzed within the method and/or QAPP specified holding time requirements.

Laboratory Control Sample

All spike recoveries met method and/or project specific QC criteria.

MS/MSD AND MS/MSD RPD

The following analyte did not meet matrix spike duplicate MS/MSD RPD criteria:

Sample Description	Sample #	Analyte	% REC	RPD	Corrective Action
Ith-16 (1-14)	0811166-005D	Hg		X	1

1. A post-digestion spike was performed. No further corrective action was taken.

CVAA Dilution Test

All percent differences met method and/or project specific QC criteria.

CVAA Recovery Test

All spike recoveries met method and/or project specific QC criteria.

Calibrations

All calibrations and calibration verifications met method and/or project specific QC criteria.

Preparation Blanks

All preparation blanks met method and/or project specific QC criteria.

CLIENT: ERM Consulting & Engineering
Project: Ithaca Dredging
Lab Order: 0811131

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
0811131-001A	Ith-3 (6-12)		11/17/2008	11/18/2008
0811131-001B	Ith-3 (6-12)		11/17/2008	11/18/2008
0811131-001C	Ith-3 (6-12)		11/17/2008	11/18/2008
0811131-001D	Ith-3 (6-12)		11/17/2008	11/18/2008
0811131-002A	Ith-4 (6-12)		11/18/2008	11/18/2008
0811131-002B	Ith-4 (6-12)		11/18/2008	11/18/2008
0811131-002C	Ith-4 (6-12)		11/18/2008	11/18/2008
0811131-002D	Ith-4 (6-12)		11/18/2008	11/18/2008
0811131-003A	Ith-2 (6-10)		11/18/2008	11/18/2008
0811131-003B	Ith-2 (6-10)		11/18/2008	11/18/2008
0811131-003C	Ith-2 (6-10)		11/18/2008	11/18/2008
0811131-003D	Ith-2 (6-10)		11/18/2008	11/18/2008
0811131-004A	Ith-2 (10-14)		11/18/2008	11/18/2008
0811131-004B	Ith-2 (10-14)		11/18/2008	11/18/2008
0811131-004C	Ith-2 (10-14)		11/18/2008	11/18/2008
0811131-004D	Ith-2 (10-14)		11/18/2008	11/18/2008
0811131-005A	Ith-6 (6-10)		11/18/2008	11/18/2008
0811131-005B	Ith-6 (6-10)		11/18/2008	11/18/2008
0811131-005C	Ith-6 (6-10)		11/18/2008	11/18/2008
0811131-005D	Ith-6 (6-10)		11/18/2008	11/18/2008
0811131-006A	Ith-6 (10-14)		11/18/2008	11/18/2008
0811131-006B	Ith-6 (10-14)		11/18/2008	11/18/2008
0811131-006C	Ith-6 (10-14)		11/18/2008	11/18/2008
0811131-006D	Ith-6 (10-14)		11/18/2008	11/18/2008

CLIENT: ERM Consulting & Engineering
Project: Ithaca Dredging
Lab Order: 0811142

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
0811142-001A	Ith-8 (2-10)		11/19/2008	11/20/2008
0811142-001B	Ith-8 (2-10)		11/19/2008	11/20/2008
0811142-001C	Ith-8 (2-10)		11/19/2008	11/20/2008
0811142-001D	Ith-8 (2-10)		11/19/2008	11/20/2008
0811142-002A	Ith-8 (10-14)		11/19/2008	11/20/2008
0811142-002B	Ith-8 (10-14)		11/19/2008	11/20/2008
0811142-002C	Ith-8 (10-14)		11/19/2008	11/20/2008
0811142-002D	Ith-8 (10-14)		11/19/2008	11/20/2008
0811142-003A	Ith-7 (1-14)		11/19/2008	11/20/2008
0811142-003B	Ith-7 (1-14)		11/19/2008	11/20/2008
0811142-003C	Ith-7 (1-14)		11/19/2008	11/20/2008
0811142-003D	Ith-7 (1-14)		11/19/2008	11/20/2008
0811142-004A	Ith-5 (4-10)		11/19/2008	11/20/2008
0811142-004B	Ith-5 (4-10)		11/19/2008	11/20/2008
0811142-004C	Ith-5 (4-10)		11/19/2008	11/20/2008
0811142-004D	Ith-5 (4-10)		11/19/2008	11/20/2008
0811142-005A	Ith-5 (10-14)		11/19/2008	11/20/2008
0811142-005B	Ith-5 (10-14)		11/19/2008	11/20/2008
0811142-005C	Ith-5 (10-14)		11/19/2008	11/20/2008
0811142-005D	Ith-5 (10-14)		11/19/2008	11/20/2008
0811142-006A	Ith-1 (6-12)		11/19/2008	11/20/2008
0811142-006B	Ith-1 (6-12)		11/19/2008	11/20/2008
0811142-006C	Ith-1 (6-12)		11/19/2008	11/20/2008
0811142-006D	Ith-1 (6-12)		11/19/2008	11/20/2008
0811142-007A	Ith-Dup1		11/19/2008	11/20/2008
0811142-007B	Ith-Dup1		11/19/2008	11/20/2008
0811142-007C	Ith-Dup1		11/19/2008	11/20/2008
0811142-007D	Ith-Dup1		11/19/2008	11/20/2008

CLIENT: ERM Consulting & Engineering
Project: Ithaca Dredging
Lab Order: 0811166

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
0811166-001A	Ith-9 (1-14)		11/20/2008	11/21/2008
0811166-001B	Ith-9 (1-14)		11/20/2008	11/21/2008
0811166-001C	Ith-9 (1-14)		11/20/2008	11/21/2008
0811166-001D	Ith-9 (1-14)		11/20/2008	11/21/2008
0811166-002A	Ith-10 (1-14)		11/20/2008	11/21/2008
0811166-002B	Ith-10 (1-14)		11/20/2008	11/21/2008
0811166-002C	Ith-10 (1-14)		11/20/2008	11/21/2008
0811166-002D	Ith-10 (1-14)		11/20/2008	11/21/2008
0811166-003A	Ith-11 (1-14)		11/20/2008	11/21/2008
0811166-003B	Ith-11 (1-14)		11/20/2008	11/21/2008
0811166-003C	Ith-11 (1-14)		11/20/2008	11/21/2008
0811166-003D	Ith-11 (1-14)		11/20/2008	11/21/2008
0811166-004A	Ith-12 (1-14)		11/20/2008	11/21/2008
0811166-004B	Ith-12 (1-14)		11/20/2008	11/21/2008
0811166-004C	Ith-12 (1-14)		11/20/2008	11/21/2008
0811166-004D	Ith-12 (1-14)		11/20/2008	11/21/2008
0811166-005A	Ith-16 (1-14)		11/20/2008	11/21/2008
0811166-005B	Ith-16 (1-14)		11/20/2008	11/21/2008
0811166-005C	Ith-16 (1-14)		11/20/2008	11/21/2008
0811166-005D	Ith-16 (1-14)		11/20/2008	11/21/2008
0811166-006A	Ith-14 (1-14)		11/21/2008	11/21/2008
0811166-006B	Ith-14 (1-14)		11/21/2008	11/21/2008
0811166-006C	Ith-14 (1-14)		11/21/2008	11/21/2008
0811166-006D	Ith-14 (1-14)		11/21/2008	11/21/2008
0811166-007A	Ith-13 (1-10)		11/21/2008	11/21/2008
0811166-007B	Ith-13 (1-10)		11/21/2008	11/21/2008
0811166-007C	Ith-13 (1-10)		11/21/2008	11/21/2008
0811166-007D	Ith-13 (1-10)		11/21/2008	11/21/2008
0811166-008A	Ith-13 (10-14)		11/21/2008	11/21/2008
0811166-008B	Ith-13 (10-14)		11/21/2008	11/21/2008
0811166-008C	Ith-13 (10-14)		11/21/2008	11/21/2008
0811166-008D	Ith-13 (10-14)		11/21/2008	11/21/2008
0811166-009A	Ith-1 (1-6)		11/20/2008	11/21/2008
0811166-009B	Ith-1 (1-6)		11/20/2008	11/21/2008
0811166-009C	Ith-1 (1-6)		11/20/2008	11/21/2008
0811166-009D	Ith-1 (1-6)		11/20/2008	11/21/2008
0811166-010A	Ith-DUP2		11/20/2008	11/21/2008
0811166-010B	Ith-DUP2		11/20/2008	11/21/2008

CLIENT: ERM Consulting & Engineering
Project: Ithaca Dredging
Lab Order: 0811166

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
0811166-010C	Ith-DUP2		11/20/2008	11/21/2008
0811166-010D	Ith-DUP2		11/20/2008	11/21/2008
0811166-011A	Ith-2 (1-6)		11/20/2008	11/21/2008
0811166-011B	Ith-2 (1-6)		11/20/2008	11/21/2008
0811166-011C	Ith-2 (1-6)		11/20/2008	11/21/2008
0811166-011D	Ith-2 (1-6)		11/20/2008	11/21/2008
0811166-012A	Ith-3 (1-6)		11/20/2008	11/21/2008
0811166-012B	Ith-3 (1-6)		11/20/2008	11/21/2008
0811166-012C	Ith-3 (1-6)		11/20/2008	11/21/2008
0811166-012D	Ith-3 (1-6)		11/20/2008	11/21/2008
0811166-013A	Ith-4 (1-6)		11/20/2008	11/21/2008
0811166-013B	Ith-4 (1-6)		11/20/2008	11/21/2008
0811166-013C	Ith-4 (1-6)		11/20/2008	11/21/2008
0811166-013D	Ith-4 (1-6)		11/20/2008	11/21/2008
0811166-014A	Ith-6 (1-6)		11/20/2008	11/21/2008
0811166-014B	Ith-6 (1-6)		11/20/2008	11/21/2008
0811166-014C	Ith-6 (1-6)		11/20/2008	11/21/2008
0811166-014D	Ith-6 (1-6)		11/20/2008	11/21/2008

Lab Order: 0811131
 Client: ERM Consulting & Engineering
 Project: Ithaca Dredging

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
0811131-001A	Ith-3 (6-12)	11/17/2008 2:50:00 PM	Soil	Volatile Organic Compounds by GC/MS			11/21/2008
0811131-001D				Mercury		12/1/2008	12/3/2008
				Organochlorine Pesticides by GC/ECD		11/21/2008	12/19/2008
				Organochlorine Pesticides by GC/ECD		11/21/2008	12/19/2008
				Percent Moisture			11/20/2008
				Polychlorinated Biphenyls by GC/ECD		11/21/2008	12/1/2008
				Semivolatile Organic Compounds by GC/MS		11/21/2008	12/1/2008
				Total Metals by ICP		12/2/2008	12/3/2008
0811131-002A	Ith-4 (6-12)	11/18/2008 9:20:00 AM		Volatile Organic Compounds by GC/MS			11/21/2008
0811131-002D				Mercury		12/1/2008	12/3/2008
				Organochlorine Pesticides by GC/ECD		11/21/2008	12/19/2008
				Organochlorine Pesticides by GC/ECD		11/21/2008	12/19/2008
				Percent Moisture			11/20/2008
				Polychlorinated Biphenyls by GC/ECD		11/21/2008	12/1/2008
				Polychlorinated Biphenyls by GC/ECD		11/21/2008	12/1/2008
				Semivolatile Organic Compounds by GC/MS		11/21/2008	12/1/2008
	Total Metals by ICP		12/2/2008	12/3/2008			
0811131-003A	Ith-2 (6-10)	11/18/2008 10:10:00 AM		Volatile Organic Compounds by GC/MS			11/21/2008
0811131-003C				Volatile Organic Compounds by GC/MS			11/24/2008
0811131-003D				Mercury		12/1/2008	12/3/2008
				Organochlorine Pesticides by GC/ECD		11/21/2008	12/19/2008
				Organochlorine Pesticides by GC/ECD		11/21/2008	12/19/2008
				Percent Moisture			11/20/2008
				Polychlorinated Biphenyls by GC/ECD		11/21/2008	12/1/2008
				Polychlorinated Biphenyls by GC/ECD		11/21/2008	12/1/2008
	Semivolatile Organic Compounds by GC/MS		11/21/2008	12/1/2008			
	Semivolatile Organic Compounds by GC/MS		11/21/2008	12/1/2008			
	Total Metals by ICP		12/2/2008	12/3/2008			

Lab Order: 0811131
 Client: ERM Consulting & Engineering
 Project: Ithaca Dredging

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
0811131-004A	Ith-2 (10-14)	11/18/2008 10:20:00 AM	Soil	Volatile Organic Compounds by GC/MS			11/24/2008
0811131-004D				Mercury		12/1/2008	12/3/2008
				Organochlorine Pesticides by GC/ECD		11/21/2008	12/19/2008
				Organochlorine Pesticides by GC/ECD		11/21/2008	12/19/2008
				Percent Moisture			11/20/2008
				Polychlorinated Biphenyls by GC/ECD		11/21/2008	12/1/2008
				Polychlorinated Biphenyls by GC/ECD		11/21/2008	12/1/2008
				Semivolatile Organic Compounds by GC/MS		11/21/2008	12/1/2008
				Total Metals by ICP		12/2/2008	12/3/2008
0811131-005A	Ith-6 (6-10)	11/18/2008 2:10:00 PM		Volatile Organic Compounds by GC/MS			11/24/2008
0811131-005D				Mercury		12/1/2008	12/3/2008
				Organochlorine Pesticides by GC/ECD		11/21/2008	12/19/2008
				Organochlorine Pesticides by GC/ECD		11/21/2008	12/19/2008
				Percent Moisture			11/20/2008
				Polychlorinated Biphenyls by GC/ECD		11/21/2008	12/1/2008
				Semivolatile Organic Compounds by GC/MS		11/21/2008	12/1/2008
				Total Metals by ICP		12/2/2008	12/3/2008
0811131-006A	Ith-6 (10-14)	11/18/2008 2:20:00 PM		Volatile Organic Compounds by GC/MS			11/21/2008
0811131-006D				Mercury		12/1/2008	12/3/2008
				Organochlorine Pesticides by GC/ECD		11/21/2008	12/19/2008
				Organochlorine Pesticides by GC/ECD		11/21/2008	12/19/2008
				Percent Moisture			11/20/2008
				Polychlorinated Biphenyls by GC/ECD		11/21/2008	12/1/2008
				Semivolatile Organic Compounds by GC/MS		11/21/2008	12/1/2008
				Total Metals by ICP		12/2/2008	12/3/2008

Lab Order: 0811142
 Client: ERM Consulting & Engineering
 Project: Ithaca Dredging

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
0811142-001A	Ith-8 (2-10)	11/19/2008 2:30:00 PM	Soil	Volatile Organic Compounds by GC/MS			11/24/2008
				Volatile Organic Compounds by GC/MS			11/21/2008
0811142-001D				Mercury		12/1/2008	12/3/2008
				Organochlorine Pesticides by GC/ECD		11/21/2008	12/19/2008
				Organochlorine Pesticides by GC/ECD		11/21/2008	12/19/2008
				Percent Moisture			11/20/2008
				Polychlorinated Biphenyls by GC/ECD		11/21/2008	12/1/2008
				Polychlorinated Biphenyls by GC/ECD		11/21/2008	12/1/2008
				Semivolatile Organic Compounds by GC/MS		11/21/2008	12/1/2008
				Total Metals by ICP		12/2/2008	12/3/2008
0811142-002A	Ith-8 (10-14)	11/19/2008 2:45:00 PM		Volatile Organic Compounds by GC/MS			11/24/2008
0811142-002D				Mercury		12/1/2008	12/3/2008
				Organochlorine Pesticides by GC/ECD		11/21/2008	12/19/2008
				Organochlorine Pesticides by GC/ECD		11/21/2008	12/19/2008
				Percent Moisture			11/20/2008
				Polychlorinated Biphenyls by GC/ECD		11/21/2008	12/1/2008
				Semivolatile Organic Compounds by GC/MS		11/21/2008	12/1/2008
				Total Metals by ICP		12/2/2008	12/3/2008
0811142-003A	Ith-7 (1-14)	11/19/2008 1:50:00 PM		Volatile Organic Compounds by GC/MS			11/21/2008
0811142-003D				Mercury		12/1/2008	12/3/2008
				Organochlorine Pesticides by GC/ECD		11/21/2008	12/19/2008
				Organochlorine Pesticides by GC/ECD		11/21/2008	12/19/2008
				Percent Moisture			11/20/2008
				Polychlorinated Biphenyls by GC/ECD		11/21/2008	12/1/2008
				Polychlorinated Biphenyls by GC/ECD		11/21/2008	12/1/2008
				Semivolatile Organic Compounds by GC/MS		11/21/2008	12/1/2008
				Total Metals by ICP		12/2/2008	12/3/2008
0811142-004A	Ith-5 (4-10)	11/19/2008 12:40:00 PM		Volatile Organic Compounds by GC/MS			11/21/2008

Lab Order: 0811142
 Client: ERM Consulting & Engineering
 Project: Ithaca Dredging

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
0811142-004D	Ith-5 (4-10)	11/19/2008 12:40:00 PM	Soil	Mercury		12/1/2008	12/3/2008
				Organochlorine Pesticides by GC/ECD		11/21/2008	12/19/2008
				Organochlorine Pesticides by GC/ECD		11/21/2008	12/19/2008
				Percent Moisture			11/20/2008
				Polychlorinated Biphenyls by GC/ECD		11/21/2008	12/1/2008
				Polychlorinated Biphenyls by GC/ECD		11/21/2008	12/1/2008
				Semivolatile Organic Compounds by GC/MS		11/21/2008	12/1/2008
				Total Metals by ICP		12/2/2008	12/3/2008
0811142-005A	Ith-5 (10-14)	11/19/2008 12:50:00 PM		Volatile Organic Compounds by GC/MS			11/21/2008
0811142-005D				Mercury		12/1/2008	12/3/2008
				Organochlorine Pesticides by GC/ECD		11/21/2008	12/19/2008
				Organochlorine Pesticides by GC/ECD		11/21/2008	12/19/2008
				Percent Moisture			11/20/2008
				Polychlorinated Biphenyls by GC/ECD		11/21/2008	12/2/2008
				Semivolatile Organic Compounds by GC/MS		11/21/2008	12/1/2008
				Total Metals by ICP		12/2/2008	12/3/2008
0811142-006A	Ith-1 (6-12)	11/19/2008 10:30:00 AM		Volatile Organic Compounds by GC/MS			11/21/2008
0811142-006D				Mercury		12/1/2008	12/3/2008
				Organochlorine Pesticides by GC/ECD		11/21/2008	12/19/2008
				Organochlorine Pesticides by GC/ECD		11/21/2008	12/19/2008
				Percent Moisture			11/20/2008
				Polychlorinated Biphenyls by GC/ECD		11/21/2008	12/2/2008
				Polychlorinated Biphenyls by GC/ECD		11/21/2008	12/2/2008
				Semivolatile Organic Compounds by GC/MS		11/21/2008	12/1/2008
				Total Metals by ICP		12/2/2008	12/3/2008
0811142-007A	Ith-Dup1	11/19/2008		Volatile Organic Compounds by GC/MS			11/21/2008
0811142-007D				Mercury		12/1/2008	12/3/2008
				Organochlorine Pesticides by GC/ECD		11/21/2008	12/19/2008

Lab Order: 0811142
 Client: ERM Consulting & Engineering
 Project: Ithaca Dredging

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
0811142-007D	ith-Dup1	11/19/2008	Soil	Organochlorine Pesticides by GC/ECD		11/21/2008	12/19/2008
				Percent Moisture			11/20/2008
				Polychlorinated Biphenyls by GC/ECD		11/21/2008	12/2/2008
				Polychlorinated Biphenyls by GC/ECD		11/21/2008	12/2/2008
				Semivolatile Organic Compounds by GC/MS		11/21/2008	12/1/2008
				Total Metals by ICP		12/2/2008	12/3/2008

Lab Order: 0811166
 Client: ERM Consulting & Engineering
 Project: Ithaca Dredging

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
0811166-001A	Ith-9 (1-14)	11/20/2008 3:15:00 PM	Soil	Volatile Organic Compounds by GC/MS			11/24/2008
0811166-001D				Mercury		12/1/2008	12/3/2008
				Organochlorine Pesticides by GC/ECD		11/24/2008	12/19/2008
				Organochlorine Pesticides by GC/ECD		11/24/2008	12/19/2008
				Percent Moisture			11/24/2008
				Polychlorinated Biphenyls by GC/ECD		11/24/2008	12/12/2008
				Semivolatile Organic Compounds by GC/MS		11/24/2008	12/3/2008
				Total Metals by ICP		12/2/2008	12/3/2008
0811166-002A	Ith-10 (1-14)	11/20/2008 2:15:00 PM		Volatile Organic Compounds by GC/MS			11/24/2008
0811166-002D				Mercury		12/1/2008	12/3/2008
				Organochlorine Pesticides by GC/ECD		11/24/2008	12/19/2008
				Organochlorine Pesticides by GC/ECD		11/24/2008	12/19/2008
				Percent Moisture			11/24/2008
				Polychlorinated Biphenyls by GC/ECD		11/24/2008	12/12/2008
				Semivolatile Organic Compounds by GC/MS		11/24/2008	12/3/2008
				Total Metals by ICP		12/2/2008	12/3/2008
0811166-003A	Ith-11 (1-14)	11/20/2008 12:20:00 PM		Volatile Organic Compounds by GC/MS			11/25/2008
0811166-003D				Mercury		12/1/2008	12/3/2008
				Organochlorine Pesticides by GC/ECD		11/24/2008	12/20/2008
				Organochlorine Pesticides by GC/ECD		11/24/2008	12/20/2008
				Percent Moisture			11/24/2008
				Polychlorinated Biphenyls by GC/ECD		11/24/2008	12/12/2008
				Semivolatile Organic Compounds by GC/MS		11/24/2008	12/3/2008
				Total Metals by ICP		12/2/2008	12/3/2008
0811166-004A	Ith-12 (1-14)	11/20/2008 10:45:00 AM		Volatile Organic Compounds by GC/MS			11/24/2008
0811166-004D				Mercury		12/1/2008	12/3/2008
				Organochlorine Pesticides by GC/ECD		11/24/2008	12/20/2008
				Organochlorine Pesticides by GC/ECD		11/24/2008	12/20/2008

Lab Order: 0811166
 Client: ERM Consulting & Engineering
 Project: Ithaca Dredging

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
0811166-004D	Ith-12 (1-14)	11/20/2008 10:45:00 AM	Soil	Percent Moisture			11/24/2008
				Polychlorinated Biphenyls by GC/ECD		11/24/2008	12/12/2008
				Semivolatile Organic Compounds by GC/MS		11/24/2008	12/3/2008
				Total Metals by ICP		12/2/2008	12/3/2008
0811166-005A	Ith-16 (1-14)	11/20/2008 9:30:00 AM		Volatile Organic Compounds by GC/MS			11/25/2008
0811166-005D				Mercury		12/1/2008	12/3/2008
				Organochlorine Pesticides by GC/ECD		11/24/2008	12/20/2008
				Organochlorine Pesticides by GC/ECD		11/24/2008	12/20/2008
				Percent Moisture			11/24/2008
				Polychlorinated Biphenyls by GC/ECD		11/24/2008	12/12/2008
				Semivolatile Organic Compounds by GC/MS		11/24/2008	12/3/2008
				Total Metals by ICP		12/2/2008	12/3/2008
0811166-006A	Ith-14 (1-14)	11/21/2008 9:50:00 AM		Volatile Organic Compounds by GC/MS			11/24/2008
0811166-006D				Mercury		12/1/2008	12/3/2008
				Mercury		12/1/2008	12/3/2008
				Organochlorine Pesticides by GC/ECD		11/24/2008	12/20/2008
				Organochlorine Pesticides by GC/ECD		11/24/2008	12/20/2008
				Percent Moisture			11/24/2008
				Polychlorinated Biphenyls by GC/ECD		11/24/2008	12/12/2008
				Semivolatile Organic Compounds by GC/MS		11/24/2008	12/3/2008
				Total Metals by ICP		12/2/2008	12/3/2008
0811166-007A	Ith-13 (1-10)	11/21/2008 8:30:00 AM		Volatile Organic Compounds by GC/MS			11/24/2008
0811166-007D				Mercury		12/1/2008	12/3/2008
				Organochlorine Pesticides by GC/ECD		11/24/2008	12/20/2008
				Organochlorine Pesticides by GC/ECD		11/24/2008	12/20/2008
				Percent Moisture			11/24/2008
				Polychlorinated Biphenyls by GC/ECD		11/24/2008	12/12/2008
				Semivolatile Organic Compounds by GC/MS		11/24/2008	12/3/2008

Lab Order: 0811166
 Client: ERM Consulting & Engineering
 Project: Ithaca Dredging

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
0811166-007D	Ith-13 (1-10)	11/21/2008 8:30:00 AM	Soil	Total Metals by ICP		12/2/2008	12/3/2008
0811166-008A	Ith-13 (10-14)	11/21/2008 8:40:00 AM		Volatile Organic Compounds by GC/MS			11/24/2008
0811166-008D				Mercury		12/1/2008	12/3/2008
				Organochlorine Pesticides by GC/ECD		11/24/2008	12/20/2008
				Organochlorine Pesticides by GC/ECD		11/24/2008	12/20/2008
				Percent Moisture			11/24/2008
				Polychlorinated Biphenyls by GC/ECD		11/24/2008	12/12/2008
				Semivolatile Organic Compounds by GC/MS		11/24/2008	12/3/2008
				Total Metals by ICP		12/2/2008	12/3/2008
0811166-009A	Ith-1 (1-6)	11/20/2008 4:00:00 PM		Volatile Organic Compounds by GC/MS			11/25/2008
0811166-009D				Mercury		12/1/2008	12/3/2008
				Organochlorine Pesticides by GC/ECD		11/24/2008	12/20/2008
				Organochlorine Pesticides by GC/ECD		11/24/2008	12/20/2008
				Percent Moisture			11/24/2008
				Polychlorinated Biphenyls by GC/ECD		11/24/2008	12/12/2008
				Semivolatile Organic Compounds by GC/MS		11/24/2008	12/3/2008
				Total Metals by ICP		12/2/2008	12/3/2008
0811166-010A	Ith-DUP2	11/20/2008		Volatile Organic Compounds by GC/MS			11/25/2008
0811166-010D				Mercury		12/1/2008	12/3/2008
				Organochlorine Pesticides by GC/ECD		11/24/2008	12/20/2008
				Organochlorine Pesticides by GC/ECD		11/24/2008	12/20/2008
				Percent Moisture			11/24/2008
				Polychlorinated Biphenyls by GC/ECD		11/24/2008	12/12/2008
				Semivolatile Organic Compounds by GC/MS		11/24/2008	12/3/2008
				Total Metals by ICP		12/2/2008	12/3/2008
0811166-011A	Ith-2 (1-6)	11/20/2008 4:10:00 PM		Volatile Organic Compounds by GC/MS			11/25/2008
0811166-011D				Volatile Organic Compounds by GC/MS			11/25/2008
				Mercury		12/1/2008	12/3/2008

Lab Order: 0811166
 Client: ERM Consulting & Engineering
 Project: Ithaca Dredging

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
0811166-011D	Ith-2 (1-6)	11/20/2008 4:10:00 PM	Soil	Organochlorine Pesticides by GC/ECD		11/24/2008	12/20/2008
				Organochlorine Pesticides by GC/ECD		11/24/2008	12/20/2008
				Percent Moisture			11/24/2008
				Polychlorinated Biphenyls by GC/ECD		11/24/2008	12/12/2008
				Semivolatile Organic Compounds by GC/MS		11/24/2008	12/3/2008
				Total Metals by ICP		12/2/2008	12/3/2008
0811166-012A	Ith-3 (1-6)	11/20/2008 4:15:00 PM		Volatile Organic Compounds by GC/MS			11/26/2008
0811166-012D				Mercury		12/1/2008	12/3/2008
				Organochlorine Pesticides by GC/ECD		11/24/2008	12/20/2008
				Organochlorine Pesticides by GC/ECD		11/24/2008	12/20/2008
				Percent Moisture			11/24/2008
				Polychlorinated Biphenyls by GC/ECD		11/24/2008	12/12/2008
				Semivolatile Organic Compounds by GC/MS		11/24/2008	12/4/2008
				Total Metals by ICP		12/2/2008	12/3/2008
0811166-013A	Ith-4 (1-6)	11/20/2008 4:20:00 PM		Volatile Organic Compounds by GC/MS			11/25/2008
0811166-013D				Mercury		12/1/2008	12/3/2008
				Organochlorine Pesticides by GC/ECD		11/24/2008	12/20/2008
				Organochlorine Pesticides by GC/ECD		11/24/2008	12/20/2008
				Percent Moisture			11/24/2008
				Polychlorinated Biphenyls by GC/ECD		11/24/2008	12/12/2008
				Semivolatile Organic Compounds by GC/MS		11/24/2008	12/3/2008
				Total Metals by ICP		12/2/2008	12/3/2008
0811166-014A	Ith-6 (1-6)	11/20/2008 4:25:00 PM		Volatile Organic Compounds by GC/MS			11/25/2008
0811166-014D				Mercury		12/1/2008	12/3/2008
				Organochlorine Pesticides by GC/ECD		11/24/2008	12/20/2008
				Organochlorine Pesticides by GC/ECD		11/24/2008	12/20/2008
				Percent Moisture			11/24/2008
				Polychlorinated Biphenyls by GC/ECD		11/24/2008	12/12/2008

Lab Order: 0811166
Client: ERM Consulting & Engineering
Project: Ithaca Dredging

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
0811166-014D	ith-6 (1-6)	11/20/2008 4:25:00 PM	Soil	Semivolatile Organic Compounds by GC/MS		11/24/2008	12/3/2008
				Total Metals by ICP		12/2/2008	12/3/2008

Analytical Results



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: BRM Consulting & Engineering	Lab ID: 0811131-001A
Project: Ithaca Dredging	Client Sample ID: <i>Ith-3 (6-12)</i>
W Order: 0811131	Collection Date: 11/17/08 14:50
Matrix: SOIL	Date Received: 11/18/08 16:28
Inst. ID: MS03 10	PrepDate:
ColumnID: Rtx-VMS	BatchNo: R15605
Revision: 11/25/08 11:40	FileID: 1-SAMP-J7632.D
Col Type:	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8260B		
Benzene	ND	3.2	0.64	µg/Kg-dry	0.96	11/21/08 21:12	
Ethylbenzene	ND	3.2	0.64	µg/Kg-dry	0.96	11/21/08 21:12	
Toluene	ND	3.2	0.64	µg/Kg-dry	0.96	11/21/08 21:12	
Xylenes (total)	ND	6.4	1.9	µg/Kg-dry	0.96	11/21/08 21:12	
Surr: 1,2-Dichloroethane-d4	95.7	71-128	0.64	%REC	0.96	11/21/08 21:12	
Surr: Toluene-d8	100	75-125	0.64	%REC	0.96	11/21/08 21:12	
Surr: 4-Bromofluorobenzene	92.5	59-125	0.64	%REC	0.96	11/21/08 21:12	

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering

Project: Ithaca Dredging

W Order: 0811131

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 11/25/08 11:40

Col Type:

Sample Size: 6.66 g

%Moisture: 28.6

TestCode: 8260S

Lab ID: 0811131-002A

Client Sample ID: *Ith-4 (6-12)*

Collection Date: 11/18/08 9:20

Date Received: 11/18/08 16:28

PrepDate:

BatchNo: R15605

FileID: 1-SAMP-J7633.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8260B		
Benzene	ND		2.6	0.53	µg/Kg-dry	0.75	11/21/08 21:46
Ethylbenzene	ND		2.6	0.53	µg/Kg-dry	0.75	11/21/08 21:46
Toluene	ND		2.6	0.53	µg/Kg-dry	0.75	11/21/08 21:46
Xylenes (total)	ND		5.3	1.6	µg/Kg-dry	0.75	11/21/08 21:46
Surr: 1,2-Dichloroethane-d4	81.0		71-128	0.53	%REC	0.75	11/21/08 21:46
Surr: Toluene-d8	114		75-125	0.53	%REC	0.75	11/21/08 21:46
Surr: 4-Bromofluorobenzene	110		59-125	0.53	%REC	0.75	11/21/08 21:46

Qualifiers:		
*	Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering

Project: Ithaca Dredging

W Order: 0811131

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 11/25/08 11:40

Col Type:

Sample Size: 7.61 g

%Moisture: 31.9

TestCode: 8260S

Lab ID: 0811131-003A

Client Sample ID: *Ith-2 (6-10)*

Collection Date: 11/18/08 10:10

Date Received: 11/18/08 16:28

PrepDate:

BatchNo: R15605

FileID: 1-SAMP-J7620.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8260B		
Benzene	ND		2.4	0.48	µg/Kg-dry	0.66	11/21/08 14:38
Ethylbenzene	ND		2.4	0.48	µg/Kg-dry	0.66	11/21/08 14:38
Toluene	ND		2.4	0.48	µg/Kg-dry	0.66	11/21/08 14:38
Xylenes (total)	ND		4.8	1.5	µg/Kg-dry	0.66	11/21/08 14:38
Surr: 1,2-Dichloroethane-d4	85.8		71-128	0.48	%REC	0.66	11/21/08 14:38
Surr: Toluene-d8	121		75-125	0.48	%REC	0.66	11/21/08 14:38
Surr: 4-Bromofluorobenzene	146 S		59-125	0.48	%REC	0.66	11/21/08 14:38

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits

Print Date: 11/25/08 13:51

406792

Project Supervisor: Anthony Crescenzi



Life Science Laboratories, Inc.

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East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811131-003C
Project: Ithaca Dredging	Client Sample ID: <i>Ith-2 (6-10)</i>
W Order: 0811131	Collection Date: 11/18/08 10:10
Matrix: SOIL	Date Received: 11/18/08 16:28
Inst. ID: MS03 10	PrepDate:
ColumnID: Rtx-VMS	BatchNo: R15608
Revision: 12/05/08 14:21	FileID: 1-SAMP-J7648.D
Col Type:	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8260B		
Benzene	ND		8.4	1.7	µg/Kg-dry	2.3	11/24/08 17:04
Ethylbenzene	ND		8.4	1.7	µg/Kg-dry	2.3	11/24/08 17:04
Toluene	ND		8.4	1.7	µg/Kg-dry	2.3	11/24/08 17:04
Xylenes (total)	ND		17	5.1	µg/Kg-dry	2.3	11/24/08 17:04
Surr: 1,2-Dichloroethane-d4	82.4		71-128	1.7	%REC	2.3	11/24/08 17:04
Surr: Toluene-d8	111		75-125	1.7	%REC	2.3	11/24/08 17:04
Surr: 4-Bromofluorobenzene	104		59-125	1.7	%REC	2.3	11/24/08 17:04

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering

Project: Ithaca Dredging

W Order: 0811131

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 11/25/08 13:42

Col Type:

Sample Size: 5.51 g

%Moisture: 34.5

TestCode: 8260S

Lab ID: 0811131-004A

Client Sample ID: *Ith-2 (10-14)*

Collection Date: 11/18/08 10:20

Date Received: 11/18/08 16:28

PrepDate:

BatchNo: R15608

FileID: 1-SAMP-J7644.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8260B		
Benzene	ND	3.5		0.69	µg/Kg-dry	0.91	11/24/08 14:48
Ethylbenzene	ND	3.5		0.69	µg/Kg-dry	0.91	11/24/08 14:48
Toluene	ND	3.5		0.69	µg/Kg-dry	0.91	11/24/08 14:48
Xylenes (total)	ND	6.9		2.1	µg/Kg-dry	0.91	11/24/08 14:48
Surr: 1,2-Dichloroethane-d4	81.0	71-128		0.69	%REC	0.91	11/24/08 14:48
Surr: Toluene-d8	114	75-125		0.69	%REC	0.91	11/24/08 14:48
Surr: 4-Bromofluorobenzene	112	59-125		0.69	%REC	0.91	11/24/08 14:48

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Value exceeds the instrument calibration range
 J Analyte detected below the PQL
 P Prim./Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Practical Quantitation Limit (PQL)
 S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811131-005A
Project: Ithaca Dredging	Client Sample ID: <i>Ith-6 (6-10)</i>
W Order: 0811131	Collection Date: 11/18/08 14:10
Matrix: SOIL	Date Received: 11/18/08 16:28
Inst. ID: MS03 10	Sample Size: 3.41 g
ColumnID: Rtx-VMS	%Moisture: 30.4
Revision: 11/25/08 13:42	TestCode: 8260S
Col Type:	PrepDate:
	BatchNo: R15608
	FileID: 1-SAMP-J7645.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8260B		
Benzene	ND	5.3	1.1	µg/Kg-dry	1.47	11/24/08 15:22	
Ethylbenzene	ND	5.3	1.1	µg/Kg-dry	1.47	11/24/08 15:22	
Toluene	ND	5.3	1.1	µg/Kg-dry	1.47	11/24/08 15:22	
Xylenes (total)	ND	11	3.2	µg/Kg-dry	1.47	11/24/08 15:22	
Surr: 1,2-Dichloroethane-d4	82.7	71-128	1.1	%REC	1.47	11/24/08 15:22	
Surr: Toluene-d8	116	75-125	1.1	%REC	1.47	11/24/08 15:22	
Surr: 4-Bromofluorobenzene	111	59-125	1.1	%REC	1.47	11/24/08 15:22	

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811131-006A
Project: Ithaca Dredging	Client Sample ID: <i>Ith-6 (10-14)</i>
W Order: 0811131	Collection Date: 11/18/08 14:20
Matrix: SOIL	Date Received: 11/18/08 16:28
Inst. ID: MS03 10	Sample Size: 5.08 g
ColumnID: Rtx-VMS	%Moisture: 34.7
Revision: 11/25/08 11:40	TestCode: 8260S
Col Type:	PrepDate:
	BatchNo: R15605
	FileID: 1-SAMP-J7624.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8260B		
Benzene	ND	3.8		0.75	µg/Kg-dry	0.98	11/21/08 16:40
Ethylbenzene	ND	3.8		0.75	µg/Kg-dry	0.98	11/21/08 16:40
Toluene	ND	3.8		0.75	µg/Kg-dry	0.98	11/21/08 16:40
Xylenes (total)	ND	7.5		2.3	µg/Kg-dry	0.98	11/21/08 16:40
Surr: 1,2-Dichloroethane-d4	82.4		71-128	0.75	%REC	0.98	11/21/08 16:40
Surr: Toluene-d8	116		75-125	0.75	%REC	0.98	11/21/08 16:40
Surr: 4-Bromofluorobenzene	109		59-125	0.75	%REC	0.98	11/21/08 16:40

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811142-001A
Project: Ithaca Dredging	Client Sample ID: <i>Ith-8 (2-10)</i>
W Order: 0811142	Collection Date: 11/19/08 14:30
Matrix: SOIL	Date Received: 11/20/08 9:25
Inst. ID: MS03 10	Sample Size: 4.43 g
ColumnID: Rtx-VMS	%Moisture: 38.2
Revision: 11/25/08 11:40	TestCode: 8260S
Col Type:	BatchNo: R15605
	FileID: 1-SAMP-J7625.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8260B		
Benzene	ND	4.6	0.91	µg/Kg-dry	1.13	11/21/08 17:14	
Ethylbenzene	ND	4.6	0.91	µg/Kg-dry	1.13	11/21/08 17:14	
Toluene	ND	4.6	0.91	µg/Kg-dry	1.13	11/21/08 17:14	
Xylenes (total)	ND	9.1	2.7	µg/Kg-dry	1.13	11/21/08 17:14	
Surr: 1,2-Dichloroethane-d4	83.1	71-128	0.91	%REC	1.13	11/21/08 17:14	
Surr: Toluene-d8	120	75-125	0.91	%REC	1.13	11/21/08 17:14	
Surr: 4-Bromofluorobenzene	123	59-125	0.91	%REC	1.13	11/21/08 17:14	

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering

Project: Ithaca Dredging

W Order: 0811142

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 11/25/08 13:42

Col Type:

Sample Size: 6.22 g

%Moisture: 38.2

TestCode: 8260S

Lab ID: 0811142-001ARA

Client Sample ID: *Ith-8 (2-10)*

Collection Date: 11/19/08 14:30

Date Received: 11/20/08 9:25

PrepDate:

BatchNo: R15608

FileID: 1-RA-J7647.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8260B		
Benzene	ND		3.2	0.65	µg/Kg-dry	0.8	11/24/08 16:30
Ethylbenzene	ND		3.2	0.65	µg/Kg-dry	0.8	11/24/08 16:30
Toluene	ND		3.2	0.65	µg/Kg-dry	0.8	11/24/08 16:30
Xylenes (total)	ND		6.5	1.9	µg/Kg-dry	0.8	11/24/08 16:30
Surr: 1,2-Dichloroethane-d4	83.6		71-128	0.65	%REC	0.8	11/24/08 16:30
Surr: Toluene-d8	123		75-125	0.65	%REC	0.8	11/24/08 16:30
Surr: 4-Bromofluorobenzene	126 S		59-125	0.65	%REC	0.8	11/24/08 16:30

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Value exceeds the instrument calibration range
 J Analyte detected below the PQL
 P Prim./Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Practical Quantitation Limit (PQL)
 S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering
Project: Ithaca Dredging
W Order: 0811142
Matrix: SOIL
Inst. ID: MS03 10
ColumnID: Rtx-VMS
Revision: 11/25/08 13:42
Col Type:

Sample Size: 9 g
%Moisture: 31.3
TestCode: 8260S

Lab ID: 0811142-002A
Client Sample ID: *Ith-8 (10-14)*
Collection Date: 11/19/08 14:45
Date Received: 11/20/08 9:25
PrepDate:
BatchNo: R15608
FileID: 1-SAMP-J7646.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8260B		
Benzene	ND		2.0	0.41	µg/Kg-dry	0.56	11/24/08 15:56
Ethylbenzene	ND		2.0	0.41	µg/Kg-dry	0.56	11/24/08 15:56
Toluene	ND		2.0	0.41	µg/Kg-dry	0.56	11/24/08 15:56
Xylenes (total)	ND		4.1	1.2	µg/Kg-dry	0.56	11/24/08 15:56
Surr: 1,2-Dichloroethane-d4	85.8		71-128	0.41	%REC	0.56	11/24/08 15:56
Surr: Toluene-d8	110		75-125	0.41	%REC	0.56	11/24/08 15:56
Surr: 4-Bromofluorobenzene	100		59-125	0.41	%REC	0.56	11/24/08 15:56

Qualifiers: * Value exceeds Maximum Contaminant Level B Analyte detected in the associated Method Blank
 E Value exceeds the instrument calibration range H Holding times for preparation or analysis exceeded
 J Analyte detected below the PQL ND Not Detected at the Practical Quantitation Limit (PQL)
 P Prim./Conf. column %D or RPD exceeds limit S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811142-003A
Project: Ithaca Dredging	Client Sample ID: <i>Ith-7 (1-14)</i>
W Order: 0811142	Collection Date: 11/19/08 13:50
Matrix: SOIL	Date Received: 11/20/08 9:25
Inst. ID: MS03 10	Sample Size: 4.42 g
ColumnID: Rtx-VMS	%Moisture: 30.2
Revision: 11/25/08 11:40	TestCode: 8260S
Col Type:	PrepDate:
	BatchNo: R15605
	FileID: 1-SAMP-J7627.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8260B		
Benzene	ND		4.0	0.81	µg/Kg-dry	1.13	11/21/08 18:22
Ethylbenzene	ND		4.0	0.81	µg/Kg-dry	1.13	11/21/08 18:22
Toluene	ND		4.0	0.81	µg/Kg-dry	1.13	11/21/08 18:22
Xylenes (total)	ND		8.1	2.4	µg/Kg-dry	1.13	11/21/08 18:22
Surr: 1,2-Dichloroethane-d4	81.4		71-128	0.81	%REC	1.13	11/21/08 18:22
Surr: Toluene-d8	113		75-125	0.81	%REC	1.13	11/21/08 18:22
Surr: 4-Bromofluorobenzene	111		59-125	0.81	%REC	1.13	11/21/08 18:22

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering

Project: Ithaca Dredging

W Order: 0811142

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 11/25/08 11:40

Col Type:

Sample Size: 5.47 g

%Moisture: 34.3

TestCode: 8260S

Lab ID: 0811142-004A

Client Sample ID: *Ith-5 (4-10)*

Collection Date: 11/19/08 12:40

Date Received: 11/20/08 9:25

PrepDate:

BatchNo: R15605

FileID: 1-SAMP-J7628.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8260B		
Benzene	ND		3.5	0.69	µg/Kg-dry	0.91	11/21/08 18:56
Ethylbenzene	ND		3.5	0.69	µg/Kg-dry	0.91	11/21/08 18:56
Toluene	ND		3.5	0.69	µg/Kg-dry	0.91	11/21/08 18:56
Xylenes (total)	ND		6.9	2.1	µg/Kg-dry	0.91	11/21/08 18:56
Surr: 1,2-Dichloroethane-d4	80.8		71-128	0.69	%REC	0.91	11/21/08 18:56
Surr: Toluene-d8	118		75-125	0.69	%REC	0.91	11/21/08 18:56
Surr: 4-Bromofluorobenzene	118		59-125	0.69	%REC	0.91	11/21/08 18:56

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering

Project: Ithaca Dredging

W Order: 0811142

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 11/25/08 11:40

Col Type:

Sample Size: 6.25 g

%Moisture: 29.0

TestCode: 8260S

Lab ID: 0811142-005A

Client Sample ID: *Ith-5 (10-14)*

Collection Date: 11/19/08 12:50

Date Received: 11/20/08 9:25

PrepDate:

BatchNo: R15605

FileID: 1-SAMP-J7629.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8260B		
Benzene	ND	2.8		0.56	µg/Kg-dry	0.8	11/21/08 19:30
Ethylbenzene	ND	2.8		0.56	µg/Kg-dry	0.8	11/21/08 19:30
Toluene	ND	2.8		0.56	µg/Kg-dry	0.8	11/21/08 19:30
Xylenes (total)	ND	5.6		1.7	µg/Kg-dry	0.8	11/21/08 19:30
Surr: 1,2-Dichloroethane-d4	81.7		71-128	0.56	%REC	0.8	11/21/08 19:30
Surr: Toluene-d8	111		75-125	0.56	%REC	0.8	11/21/08 19:30
Surr: 4-Bromofluorobenzene	97.4		59-125	0.56	%REC	0.8	11/21/08 19:30

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811142-006A
Project: Ithaca Dredging	Client Sample ID: <i>Ith-1 (6-12)</i>
W Order: 0811142	Collection Date: 11/19/08 10:30
Matrix: SOIL	Date Received: 11/20/08 9:25
Inst. ID: MS03 10	Sample Size: 6.89 g
ColumnID: Rtx-VMS	%Moisture: 34.9
Revision: 11/25/08 11:40	TestCode: 8260S
Col Type:	PrepDate:
	BatchNo: R15605
	FileID: 1-SAMP-J7630.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8260B		
Benzene	ND		2.8	0.55	µg/Kg-dry	0.72	11/21/08 20:04
Ethylbenzene	ND		2.8	0.55	µg/Kg-dry	0.72	11/21/08 20:04
Toluene	ND		2.8	0.55	µg/Kg-dry	0.72	11/21/08 20:04
Xylenes (total)	ND		5.5	1.7	µg/Kg-dry	0.72	11/21/08 20:04
Surr: 1,2-Dichloroethane-d4	81.3		71-128	0.55	%REC	0.72	11/21/08 20:04
Surr: Toluene-d8	115		75-125	0.55	%REC	0.72	11/21/08 20:04
Surr: 4-Bromofluorobenzene	103		59-125	0.55	%REC	0.72	11/21/08 20:04

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811142-007A
Project: Ithaca Dredging	Client Sample ID: <i>Ith-Dup1</i>
W Order: 0811142	Collection Date: 11/19/08 0:00
Matrix: SOIL	Date Received: 11/20/08 9:25
Inst. ID: MS03 10	Sample Size: 4.95 g
ColumnID: Rtx-VMS	%Moisture: 33.4
Revision: 11/25/08 11:40	TestCode: 8260S
Col Type:	PrepDate:
	BatchNo: R15605
	FileID: 1-SAMP-J7631.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Benzene	ND	3.8		0.76	µg/Kg-dry	1.01	11/21/08 20:38
Ethylbenzene	ND	3.8		0.76	µg/Kg-dry	1.01	11/21/08 20:38
Toluene	ND	3.8		0.76	µg/Kg-dry	1.01	11/21/08 20:38
Xylenes (total)	ND	7.6		2.3	µg/Kg-dry	1.01	11/21/08 20:38
Surr: 1,2-Dichloroethane-d4	81.8		71-128	0.76	%REC	1.01	11/21/08 20:38
Surr: Toluene-d8	115		75-125	0.76	%REC	1.01	11/21/08 20:38
Surr: 4-Bromofluorobenzene	113		59-125	0.76	%REC	1.01	11/21/08 20:38

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering

Project: Ithaca Dredging

W Order: 0811166

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 11/25/08 13:42

Col Type:

Sample Size: 5.2 g

%Moisture: 35.0

TestCode: 8260S

Lab ID: 0811166-001A

Client Sample ID: Ith-9 (1-14)

Collection Date: 11/20/08 15:15

Date Received: 11/21/08 16:16

PrepDate:

BatchNo: R15608

FileID: 1-SAMP-J7653.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8260B		
Benzene	ND	3.7		0.74	µg/Kg-dry	0.96	11/24/08 19:54
Ethylbenzene	ND	3.7		0.74	µg/Kg-dry	0.96	11/24/08 19:54
Toluene	ND	3.7		0.74	µg/Kg-dry	0.96	11/24/08 19:54
Xylenes (total)	ND	7.4		2.2	µg/Kg-dry	0.96	11/24/08 19:54
Surr: 1,2-Dichloroethane-d4	80.4	71-128		0.74	%REC	0.96	11/24/08 19:54
Surr: Toluene-d8	116	75-125		0.74	%REC	0.96	11/24/08 19:54
Surr: 4-Bromofluorobenzene	112	59-125		0.74	%REC	0.96	11/24/08 19:54

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits

Print Date: 12/02/08 15:54

406828

Project Supervisor: Anthony Crescenzi



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering

Project: Ithaca Dredging

W Order: 0811166

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 11/25/08 13:42

Col Type:

Sample Size: 7.04 g

%Moisture: 34.1

TestCode: 8260S

Lab ID: 0811166-002A

Client Sample ID: *Ith-10 (1-14)*

Collection Date: 11/20/08 14:15

Date Received: 11/21/08 16:16

PrepDate:

BatchNo: R15608

FileID: 1-SAMP-J7654.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8260B		
Benzene	ND	2.7	0.54	µg/Kg-dry	0.71	11/24/08 20:28	
Ethylbenzene	ND	2.7	0.54	µg/Kg-dry	0.71	11/24/08 20:28	
Toluene	ND	2.7	0.54	µg/Kg-dry	0.71	11/24/08 20:28	
Xylenes (total)	ND	5.4	1.6	µg/Kg-dry	0.71	11/24/08 20:28	
Surr: 1,2-Dichloroethane-d4	81.5	71-128	0.54	%REC	0.71	11/24/08 20:28	
Surr: Toluene-d8	113	75-125	0.54	%REC	0.71	11/24/08 20:28	
Surr: 4-Bromofluorobenzene	103	59-125	0.54	%REC	0.71	11/24/08 20:28	

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering

Project: Ithaca Dredging

W Order: 0811166

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 12/01/08 11:52

Col Type:

Sample Size: 5.58 g

%Moisture: 32.2

TestCode: 8260S

Lab ID: 0811166-003A

Client Sample ID: *Ith-11 (1-14)*

Collection Date: 11/20/08 12:20

Date Received: 11/21/08 16:16

PrepDate:

BatchNo: R15620

FileID: 1-SAMP-J7669.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8260B		
Benzene	ND	3.3	0.66	µg/Kg-dry	0.9	11/25/08 13:08	
Ethylbenzene	ND	3.3	0.66	µg/Kg-dry	0.9	11/25/08 13:08	
Toluene	ND	3.3	0.66	µg/Kg-dry	0.9	11/25/08 13:08	
Xylenes (total)	ND	6.6	2.0	µg/Kg-dry	0.9	11/25/08 13:08	
Surr: 1,2-Dichloroethane-d4	81.4	71-128	0.66	%REC	0.9	11/25/08 13:08	
Surr: Toluene-d8	117	75-125	0.66	%REC	0.9	11/25/08 13:08	
Surr: 4-Bromofluorobenzene	112	59-125	0.66	%REC	0.9	11/25/08 13:08	

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering

Project: Ithaca Dredging

W Order: 0811166

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 11/25/08 13:42

Col Type:

Sample Size: 5.43 g

%Moisture: 36.2

TestCode: 8260S

Lab ID: 0811166-004A

Client Sample ID: *Ith-12 (1-14)*

Collection Date: 11/20/08 10:45

Date Received: 11/21/08 16:16

PrepDate:

BatchNo: R15608

FileID: 1-SAMP-J7656.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8260B		
Benzene	ND		3.6	0.72	µg/Kg-dry	0.92	11/24/08 21:36
Ethylbenzene	ND		3.6	0.72	µg/Kg-dry	0.92	11/24/08 21:36
Toluene	ND		3.6	0.72	µg/Kg-dry	0.92	11/24/08 21:36
Xylenes (total)	ND		7.2	2.2	µg/Kg-dry	0.92	11/24/08 21:36
Surr: 1,2-Dichloroethane-d4	82.0		71-128	0.72	%REC	0.92	11/24/08 21:36
Surr: Toluene-d8	113		75-125	0.72	%REC	0.92	11/24/08 21:36
Surr: 4-Bromofluorobenzene	105		59-125	0.72	%REC	0.92	11/24/08 21:36

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering

Project: Ithaca Dredging

W Order: 0811166

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 12/01/08 11:52

Col Type:

Lab ID: 0811166-005A

Client Sample ID: *Ith-16 (1-14)*

Collection Date: 11/20/08 9:30

Date Received: 11/21/08 16:16

PrepDate:

BatchNo: R15620

FileID: 1-SAMP-J7671.D

Sample Size: 6.06 g

%Moisture: 25.2

TestCode: 8260S

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8260B		
Benzene	ND		2.7	0.55	µg/Kg-dry	0.82	11/25/08 14:16
Ethylbenzene	ND		2.7	0.55	µg/Kg-dry	0.82	11/25/08 14:16
Toluene	ND		2.7	0.55	µg/Kg-dry	0.82	11/25/08 14:16
Xylenes (total)	ND		5.5	1.6	µg/Kg-dry	0.82	11/25/08 14:16
Surr: 1,2-Dichloroethane-d4	80.1		71-128	0.55	%REC	0.82	11/25/08 14:16
Surr: Toluene-d8	111		75-125	0.55	%REC	0.82	11/25/08 14:16
Surr: 4-Bromofluorobenzene	102		59-125	0.55	%REC	0.82	11/25/08 14:16

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering

Project: Ithaca Dredging

W Order: 0811166

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 11/25/08 13:42

Col Type:

Sample Size: 6.3 g

%Moisture: 25.2

TestCode: 8260S

Lab ID: 0811166-006A

Client Sample ID: Ith-14 (1-14)

Collection Date: 11/21/08 9:50

Date Received: 11/21/08 16:16

PrepDate:

BatchNo: R15608

FileID: 1-SAMP-J7657.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8260B		
Benzene	ND		2.6	0.53	µg/Kg-dry	0.79	11/24/08 22:10
Ethylbenzene	ND		2.6	0.53	µg/Kg-dry	0.79	11/24/08 22:10
Toluene	0.94	J	2.6	0.53	µg/Kg-dry	0.79	11/24/08 22:10
Xylenes (total)	ND		5.3	1.6	µg/Kg-dry	0.79	11/24/08 22:10
Surr: 1,2-Dichloroethane-d4	81.5		71-128	0.53	%REC	0.79	11/24/08 22:10
Surr: Toluene-d8	120		75-125	0.53	%REC	0.79	11/24/08 22:10
Surr: 4-Bromofluorobenzene	111		59-125	0.53	%REC	0.79	11/24/08 22:10

Qualifiers:		
*	Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering

Project: Ithaca Dredging

W Order: 0811166

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 11/25/08 13:42

Col Type:

Sample Size: 9 g

%Moisture: 30.9

TestCode: 8260S

Lab ID: 0811166-007A

Client Sample ID: *Ith-13 (1-10)*

Collection Date: 11/21/08 8:30

Date Received: 11/21/08 16:16

PrepDate:

BatchNo: R15608

FileID: 1-SAMP-J7658.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Benzene	ND	2.0	0.41	µg/Kg-dry	0.56	11/24/08 22:44	
Ethylbenzene	ND	2.0	0.41	µg/Kg-dry	0.56	11/24/08 22:44	
Toluene	ND	2.0	0.41	µg/Kg-dry	0.56	11/24/08 22:44	
Xylenes (total)	ND	4.1	1.2	µg/Kg-dry	0.56	11/24/08 22:44	
Surr: 1,2-Dichloroethane-d4	84.7	71-128	0.41	%REC	0.56	11/24/08 22:44	
Surr: Toluene-d8	107	75-125	0.41	%REC	0.56	11/24/08 22:44	
Surr: 4-Bromofluorobenzene	96.5	59-125	0.41	%REC	0.56	11/24/08 22:44	

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering

Project: Ithaca Dredging

W Order: 0811166

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 11/25/08 13:42

Col Type:

Sample Size: 6.94 g

%Moisture: 31.1

TestCode: 8260S

Lab ID: 0811166-008A

Client Sample ID: *Ith-13 (10-14)*

Collection Date: 11/21/08 8:40

Date Received: 11/21/08 16:16

PrepDate:

BatchNo: R15608

FileID: 1-SAMP-J7659.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Benzene	ND	2.6	0.52	µg/Kg-dry	0.72	11/24/08 23:18	
Ethylbenzene	ND	2.6	0.52	µg/Kg-dry	0.72	11/24/08 23:18	
Toluene	ND	2.6	0.52	µg/Kg-dry	0.72	11/24/08 23:18	
Xylenes (total)	ND	5.2	1.6	µg/Kg-dry	0.72	11/24/08 23:18	
Surr: 1,2-Dichloroethane-d4	80.8	71-128	0.52	%REC	0.72	11/24/08 23:18	
Surr: Toluene-d8	114	75-125	0.52	%REC	0.72	11/24/08 23:18	
Surr: 4-Bromofluorobenzene	106	59-125	0.52	%REC	0.72	11/24/08 23:18	

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



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East Syracuse, NY 13057

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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering

Project: Ithaca Dredging

W Order: 0811166

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 12/01/08 11:52

Col Type:

Sample Size: 6.49 g

%Moisture: 40.0

TestCode: 8260S

Lab ID: 0811166-009A

Client Sample ID: *Ith-1 (1-6)*

Collection Date: 11/20/08 16:00

Date Received: 11/21/08 16:16

PrepDate:

BatchNo: R15620

FileID: 1-SAMP-J7670.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8260B		
Benzene	ND		3.2	0.64	µg/Kg-dry	0.77	11/25/08 13:42
Ethylbenzene	ND		3.2	0.64	µg/Kg-dry	0.77	11/25/08 13:42
Toluene	ND		3.2	0.64	µg/Kg-dry	0.77	11/25/08 13:42
Xylenes (total)	ND		6.4	1.9	µg/Kg-dry	0.77	11/25/08 13:42
Surr: 1,2-Dichloroethane-d4	79.6		71-128	0.64	%REC	0.77	11/25/08 13:42
Surr: Toluene-d8	116		75-125	0.64	%REC	0.77	11/25/08 13:42
Surr: 4-Bromofluorobenzene	113		59-125	0.64	%REC	0.77	11/25/08 13:42

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering

Project: Ithaca Dredging

W Order: 0811166

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 12/01/08 11:52

Col Type:

Sample Size: 6.54 g

%Moisture: 41.2

TestCode: 8260S

Lab ID: 0811166-010A

Client Sample ID: *Ith-DUP2*

Collection Date: 11/20/08 0:00

Date Received: 11/21/08 16:16

PrepDate:

BatchNo: R15620

FileID: 1-SAMP-J7672.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Benzene	ND		3.2	0.65	µg/Kg-dry	0.76	11/25/08 14:51
Ethylbenzene	ND		3.2	0.65	µg/Kg-dry	0.76	11/25/08 14:51
Toluene	ND		3.2	0.65	µg/Kg-dry	0.76	11/25/08 14:51
Xylenes (total)	ND		6.5	1.9	µg/Kg-dry	0.76	11/25/08 14:51
Surr: 1,2-Dichloroethane-d4	81.9		71-128	0.65	%REC	0.76	11/25/08 14:51
Surr: Toluene-d8	116		75-125	0.65	%REC	0.76	11/25/08 14:51
Surr: 4-Bromofluorobenzene	107		59-125	0.65	%REC	0.76	11/25/08 14:51

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811166-011A
Project: Ithaca Dredging	Client Sample ID: <i>Ith-2 (1-6)</i>
W Order: 0811166	Collection Date: 11/20/08 16:10
Matrix: SOIL	Date Received: 11/21/08 16:16
Inst. ID: MS03 10	PrepDate:
ColumnID: Rtx-VMS	BatchNo: R15620
Revision: 12/01/08 11:52	FileID: 1-SAMP-J7673.D
Col Type:	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8260B		
Benzene	ND	3.5	0.71	µg/Kg-dry	0.74	11/25/08 15:25	
Ethylbenzene	ND	3.5	0.71	µg/Kg-dry	0.74	11/25/08 15:25	
Toluene	ND	3.5	0.71	µg/Kg-dry	0.74	11/25/08 15:25	
Xylenes (total)	ND	7.1	2.1	µg/Kg-dry	0.74	11/25/08 15:25	
Surr: 1,2-Dichloroethane-d4	77.9	71-128	0.71	%REC	0.74	11/25/08 15:25	
Surr: Toluene-d8	120	75-125	0.71	%REC	0.74	11/25/08 15:25	
Surr: 4-Bromofluorobenzene	119	59-125	0.71	%REC	0.74	11/25/08 15:25	

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits

Print Date: 12/02/08 15:54

407099

Project Supervisor: Anthony Crescenzi



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering

Project: Ithaca Dredging

W Order: 0811166

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 12/01/08 11:52

Col Type:

Sample Size: 5.8 g

%Moisture: 47.6

TestCode: 8260S

Lab ID: 0811166-011ARA

Client Sample ID: *Ith-2 (1-6)*

Collection Date: 11/20/08 16:10

Date Received: 11/21/08 16:16

PrepDate:

BatchNo: R15620

FileID: 1-RA-J7677.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Benzene	ND	4.1	0.82	µg/Kg-dry	0.86	11/25/08 17:41	
Ethylbenzene	ND	4.1	0.82	µg/Kg-dry	0.86	11/25/08 17:41	
Toluene	ND	4.1	0.82	µg/Kg-dry	0.86	11/25/08 17:41	
Xylenes (total)	ND	8.2	2.5	µg/Kg-dry	0.86	11/25/08 17:41	
Surr: 1,2-Dichloroethane-d4	82.7	71-128	0.82	%REC	0.86	11/25/08 17:41	
Surr: Toluene-d8	118	75-125	0.82	%REC	0.86	11/25/08 17:41	
Surr: 4-Bromofluorobenzene	118	59-125	0.82	%REC	0.86	11/25/08 17:41	

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



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 East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811166-012A
Project: Ithaca Dredging	Client Sample ID: <i>Ith-3 (1-6)</i>
W Order: 0811166	Collection Date: 11/20/08 16:15
Matrix: SOIL	Date Received: 11/21/08 16:16
Inst. ID: MS03 10	PrepDate:
ColumnID: Rtx-VMS	BatchNo: R15645
Revision: 12/02/08 16:13	FileID: 1-SAMP-J7692.D
Col Type:	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8260B		
Benzene	ND	4.4	0.89	μg/Kg-dry	0.92	11/26/08 14:01	
Ethylbenzene	ND	4.4	0.89	μg/Kg-dry	0.92	11/26/08 14:01	
Toluene	ND	4.4	0.89	μg/Kg-dry	0.92	11/26/08 14:01	
Xylenes (total)	ND	8.9	2.7	μg/Kg-dry	0.92	11/26/08 14:01	
Surr: 1,2-Dichloroethane-d4	81.6	71-128	0.89	%REC	0.92	11/26/08 14:01	
Surr: Toluene-d8	117	75-125	0.89	%REC	0.92	11/26/08 14:01	
Surr: 4-Bromofluorobenzene	117	59-125	0.89	%REC	0.92	11/26/08 14:01	

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering

Project: Ithaca Dredging

W Order: 0811166

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 12/01/08 11:52

Col Type:

Sample Size: 6.49 g

%Moisture: 37.0

TestCode: 8260S

Lab ID: 0811166-013A

Client Sample ID: *Ith-4 (1-6)*

Collection Date: 11/20/08 16:20

Date Received: 11/21/08 16:16

PrepDate:

BatchNo: R15620

FileID: I-SAMP-J7675.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8260B		
Benzene	ND	3.1	0.61	µg/Kg-dry	0.77	11/25/08 16:33	
Ethylbenzene	ND	3.1	0.61	µg/Kg-dry	0.77	11/25/08 16:33	
Toluene	ND	3.1	0.61	µg/Kg-dry	0.77	11/25/08 16:33	
Xylenes (total)	ND	6.1	1.8	µg/Kg-dry	0.77	11/25/08 16:33	
Surr: 1,2-Dichloroethane-d4	81.2	71-128	0.61	%REC	0.77	11/25/08 16:33	
Surr: Toluene-d8	120	75-125	0.61	%REC	0.77	11/25/08 16:33	
Surr: 4-Bromofluorobenzene	111	59-125	0.61	%REC	0.77	11/25/08 16:33	

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering

Project: Ithaca Dredging

W Order: 0811166

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 12/01/08 11:52

Col Type:

Sample Size: 6.62 g

%Moisture: 39.7

TestCode: 8260S

Lab ID: 0811166-014A

Client Sample ID: *Ith-6 (I-6)*

Collection Date: 11/20/08 16:25

Date Received: 11/21/08 16:16

PrepDate:

BatchNo: R15620

FileID: 1-SAMP-J7676.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8260B		
Benzene	ND		3.2	0.63	µg/Kg-dry	0.76	11/25/08 17:07
Ethylbenzene	ND		3.2	0.63	µg/Kg-dry	0.76	11/25/08 17:07
Toluene	ND		3.2	0.63	µg/Kg-dry	0.76	11/25/08 17:07
Xylenes (total)	ND		6.3	1.9	µg/Kg-dry	0.76	11/25/08 17:07
Surr: 1,2-Dichloroethane-d4	81.1		71-128	0.63	%REC	0.76	11/25/08 17:07
Surr: Toluene-d8	117		75-125	0.63	%REC	0.76	11/25/08 17:07
Surr: 4-Bromofluorobenzene	108		59-125	0.63	%REC	0.76	11/25/08 17:07

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering

Project: Ithaca Dredging

W Order: 0811131

Matrix: SOIL

Inst. ID: MS06 40

ColumnID: DB-5MS

Revision: 12/02/08 11:37

Col Type:

Sample Size: 30 g

%Moisture: 24.7

TestCode: 8270S

Lab ID: 0811131-001D

Client Sample ID: *Ith-3 (6-12)*

Collection Date: 11/17/08 14:50

Date Received: 11/18/08 16:28

PrepDate: 11/21/08 15:07

BatchNo: 8508/R15641

FileID: 1-SAMP-K5198.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8270C		(SW3550B)
2-Chloronaphthalene	ND	440	4.9	µg/Kg-dry	1	12/01/08 10:47	
2-Methylnaphthalene	ND	440	2.1	µg/Kg-dry	1	12/01/08 10:47	
Acenaphthene	ND	440	4.4	µg/Kg-dry	1	12/01/08 10:47	
Acenaphthylene	ND	440	5.3	µg/Kg-dry	1	12/01/08 10:47	
Anthracene	ND	440	3.1	µg/Kg-dry	1	12/01/08 10:47	
Benzo[a]anthracene	ND	440	4.6	µg/Kg-dry	1	12/01/08 10:47	
Benzo[a]pyrene	ND	440	13	µg/Kg-dry	1	12/01/08 10:47	
Benzo[b]fluoranthene	ND	440	15	µg/Kg-dry	1	12/01/08 10:47	
Benzo[g,h,i]perylene	ND	440	18	µg/Kg-dry	1	12/01/08 10:47	
Benzo[k]fluoranthene	ND	440	15	µg/Kg-dry	1	12/01/08 10:47	
Chrysene	ND	440	3.7	µg/Kg-dry	1	12/01/08 10:47	
Dibenz[a,h]anthracene	ND	440	18	µg/Kg-dry	1	12/01/08 10:47	
Fluoranthene	ND	440	13	µg/Kg-dry	1	12/01/08 10:47	
Fluorene	ND	440	4.5	µg/Kg-dry	1	12/01/08 10:47	
Indeno[1,2,3-cd]pyrene	ND	440	18	µg/Kg-dry	1	12/01/08 10:47	
Naphthalene	ND	440	3.4	µg/Kg-dry	1	12/01/08 10:47	
Phenanthrene	ND	440	1.9	µg/Kg-dry	1	12/01/08 10:47	
Pyrene	ND	440	3.0	µg/Kg-dry	1	12/01/08 10:47	
Surr: 2,4,6-Tribromophenol	58	20-143	0	%REC	1	12/01/08 10:47	
Surr: 2-Fluorobiphenyl	77	46-130	0	%REC	1	12/01/08 10:47	
Surr: 2-Fluorophenol	78	22-130	0	%REC	1	12/01/08 10:47	
Surr: Nitrobenzene-d5	78	39-130	0	%REC	1	12/01/08 10:47	
Surr: Phenol-d5	81	33-130	0	%REC	1	12/01/08 10:47	
Surr: Terphenyl-d14	85	36-146	0	%REC	1	12/01/08 10:47	

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

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East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering
Project: Ithaca Dredging
W Order: 0811131
Matrix: SOIL
Inst. ID: MS06 40
ColumnID: DB-5MS
Revision: 12/02/08 11:37
Col Type:

Sample Size: 30 g
%Moisture: 28.6
TestCode: 8270S

Lab ID: 0811131-002D
Client Sample ID: *Ith-4 (6-12)*
Collection Date: 11/18/08 9:20
Date Received: 11/18/08 16:28
PrepDate: 11/21/08 15:07
BatchNo: 8508/R15641
FileID: 1-SAMP-K5199.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8270C		(SW3550B)
2-Chloronaphthalene	ND		460	5.1	µg/Kg-dry	1	12/01/08 11:26
2-Methylnaphthalene	ND		460	2.2	µg/Kg-dry	1	12/01/08 11:26
Acenaphthene	ND		460	4.6	µg/Kg-dry	1	12/01/08 11:26
Acenaphthylene	ND		460	5.6	µg/Kg-dry	1	12/01/08 11:26
Anthracene	ND		460	3.3	µg/Kg-dry	1	12/01/08 11:26
Benzo[a]anthracene	ND		460	4.8	µg/Kg-dry	1	12/01/08 11:26
Benzo[a]pyrene	ND		460	14	µg/Kg-dry	1	12/01/08 11:26
Benzo[b]fluoranthene	ND		460	16	µg/Kg-dry	1	12/01/08 11:26
Benzo[g,h,i]perylene	ND		460	19	µg/Kg-dry	1	12/01/08 11:26
Benzo[k]fluoranthene	ND		460	16	µg/Kg-dry	1	12/01/08 11:26
Chrysene	ND		460	3.9	µg/Kg-dry	1	12/01/08 11:26
Dibenz[a,h]anthracene	ND		460	19	µg/Kg-dry	1	12/01/08 11:26
Fluoranthene	ND		460	14	µg/Kg-dry	1	12/01/08 11:26
Fluorene	ND		460	4.8	µg/Kg-dry	1	12/01/08 11:26
Indeno[1,2,3-cd]pyrene	ND		460	19	µg/Kg-dry	1	12/01/08 11:26
Naphthalene	ND		460	3.5	µg/Kg-dry	1	12/01/08 11:26
Phenanthrene	ND		460	2.0	µg/Kg-dry	1	12/01/08 11:26
Pyrene	ND		460	3.2	µg/Kg-dry	1	12/01/08 11:26
Surr: 2,4,6-Tribromophenol	52		20-143	0	%REC	1	12/01/08 11:26
Surr: 2-Fluorobiphenyl	67		46-130	0	%REC	1	12/01/08 11:26
Surr: 2-Fluorophenol	67		22-130	0	%REC	1	12/01/08 11:26
Surr: Nitrobenzene-d5	68		39-130	0	%REC	1	12/01/08 11:26
Surr: Phenol-d5	72		33-130	0	%REC	1	12/01/08 11:26
Surr: Terphenyl-d14	74		36-146	0	%REC	1	12/01/08 11:26

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering
Project: Ithaca Dredging

Lab ID: 0811131-003D

Client Sample ID: *Ith-2 (6-10)*

W Order: 0811131

Collection Date: 11/18/08 10:10

Matrix: SOIL

Date Received: 11/18/08 16:28

Inst. ID: MS06 40

Sample Size: 30 g

PrepDate: 11/21/08 15:07

ColumnID: DB-5MS

%Moisture: 31.9

BatchNo: 8508/R15641

Revision: 12/02/08 11:37

TestCode: 8270S

FileID: 1-SAMP-K5200.D

Col Type:

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8270C		(SW3550B)
2-Chloronaphthalene	ND		480	5.4	µg/Kg-dry	1	12/01/08 12:05
2-Methylnaphthalene	180 J		480	2.3	µg/Kg-dry	1	12/01/08 12:05
Acenaphthene	750		480	4.9	µg/Kg-dry	1	12/01/08 12:05
Acenaphthylene	92 J		480	5.9	µg/Kg-dry	1	12/01/08 12:05
Anthracene	300 J		480	3.4	µg/Kg-dry	1	12/01/08 12:05
Benzo[a]anthracene	610		480	5.1	µg/Kg-dry	1	12/01/08 12:05
Benzo[a]pyrene	510		480	15	µg/Kg-dry	1	12/01/08 12:05
Benzo[b]fluoranthene	650		480	17	µg/Kg-dry	1	12/01/08 12:05
Benzo[g,h,i]perylene	150 J		480	20	µg/Kg-dry	1	12/01/08 12:05
Benzo[k]fluoranthene	270 J		480	16	µg/Kg-dry	1	12/01/08 12:05
Chrysene	630		480	4.1	µg/Kg-dry	1	12/01/08 12:05
Dibenz[a,h]anthracene	ND		480	20	µg/Kg-dry	1	12/01/08 12:05
Fluoranthene	1100		480	15	µg/Kg-dry	1	12/01/08 12:05
Fluorene	380 J		480	5.0	µg/Kg-dry	1	12/01/08 12:05
Indeno[1,2,3-cd]pyrene	65 J		480	20	µg/Kg-dry	1	12/01/08 12:05
Naphthalene	240 J		480	3.7	µg/Kg-dry	1	12/01/08 12:05
Phenanthrene	1200		480	2.1	µg/Kg-dry	1	12/01/08 12:05
Pyrene	1400		480	3.3	µg/Kg-dry	1	12/01/08 12:05
Surr: 2,4,6-Tribromophenol	55		20-143	0	%REC	1	12/01/08 12:05
Surr: 2-Fluorobiphenyl	71		46-130	0	%REC	1	12/01/08 12:05
Surr: 2-Fluorophenol	72		22-130	0	%REC	1	12/01/08 12:05
Surr: Nitrobenzene-d5	71		39-130	0	%REC	1	12/01/08 12:05
Surr: Phenol-d5	75		33-130	0	%REC	1	12/01/08 12:05
Surr: Terphenyl-d14	93		36-146	0	%REC	1	12/01/08 12:05

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering
Project: Ithaca Dredging
W Order: 0811131
Matrix: SOIL
Inst. ID: MS06 40 **Sample Size:** 30 g
ColumnID: DB-5MS **%Moisture:** 31.9
Revision: 12/02/08 11:37 **TestCode:** 8270S
Col Type:

Lab ID: 0811131-003DDL
Client Sample ID: *Ith-2 (6-10)*
Collection Date: 11/18/08 10:10
Date Received: 11/18/08 16:28
PrepDate: 11/21/08 15:07
BatchNo: 8508/R15641
FileID: 1-DL-K5211.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8270C		(SW3550B)
2-Chloronaphthalene	ND		4800	54	µg/Kg-dry	10	12/01/08 19:12
2-Methylnaphthalene	ND		4800	23	µg/Kg-dry	10	12/01/08 19:12
Acenaphthene	780	J	4800	49	µg/Kg-dry	10	12/01/08 19:12
Acenaphthylene	ND		4800	59	µg/Kg-dry	10	12/01/08 19:12
Anthracene	ND		4800	34	µg/Kg-dry	10	12/01/08 19:12
Benzo[a]anthracene	690	J	4800	51	µg/Kg-dry	10	12/01/08 19:12
Benzo[a]pyrene	550	J	4800	150	µg/Kg-dry	10	12/01/08 19:12
Benzo[b]fluoranthene	630	J	4800	170	µg/Kg-dry	10	12/01/08 19:12
Benzo[g,h,i]perylene	ND		4800	200	µg/Kg-dry	10	12/01/08 19:12
Benzo[k]fluoranthene	ND		4800	160	µg/Kg-dry	10	12/01/08 19:12
Chrysene	690	J	4800	41	µg/Kg-dry	10	12/01/08 19:12
Dibenz[a,h]anthracene	ND		4800	200	µg/Kg-dry	10	12/01/08 19:12
Fluoranthene	980	J	4800	150	µg/Kg-dry	10	12/01/08 19:12
Fluorene	ND		4800	50	µg/Kg-dry	10	12/01/08 19:12
Indeno[1,2,3-cd]pyrene	ND		4800	200	µg/Kg-dry	10	12/01/08 19:12
Naphthalene	ND		4800	37	µg/Kg-dry	10	12/01/08 19:12
Phenanthrene	1300	J	4800	21	µg/Kg-dry	10	12/01/08 19:12
Pyrene	1100	J	4800	33	µg/Kg-dry	10	12/01/08 19:12
Surr: 2,4,6-Tribromophenol	46		20-143	0	%REC	10	12/01/08 19:12
Surr: 2-Fluorobiphenyl	65		46-130	0	%REC	10	12/01/08 19:12
Surr: 2-Fluorophenol	69		22-130	0	%REC	10	12/01/08 19:12
Surr: Nitrobenzene-d5	72		39-130	0	%REC	10	12/01/08 19:12
Surr: Phenol-d5	74		33-130	0	%REC	10	12/01/08 19:12
Surr: Terphenyl-d14	74		36-146	0	%REC	10	12/01/08 19:12

Qualifiers:	*	B
	Value exceeds Maximum Contaminant Level	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering
Project: Ithaca Dredging
W Order: 0811131
Matrix: SOIL
Inst. ID: MS06 40
ColumnID: DB-5MS
Revision: 12/02/08 11:37
Col Type:

Sample Size: 30 g
%Moisture: 34.5
TestCode: 8270S

Lab ID: 0811131-004D
Client Sample ID: *Ith-2 (10-14)*
Collection Date: 11/18/08 10:20
Date Received: 11/18/08 16:28
PrepDate: 11/21/08 15:07
BatchNo: 8508/R15641
FileID: 1-SAMP-K5201.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8270C		(SW3550B)
2-Chloronaphthalene	ND		500	5.6	µg/Kg-dry	1	12/01/08 12:44
2-Methylnaphthalene	ND		500	2.4	µg/Kg-dry	1	12/01/08 12:44
Acenaphthene	ND		500	5.1	µg/Kg-dry	1	12/01/08 12:44
Acenaphthylene	ND		500	6.1	µg/Kg-dry	1	12/01/08 12:44
Anthracene	ND		500	3.6	µg/Kg-dry	1	12/01/08 12:44
Benzo[a]anthracene	ND		500	5.3	µg/Kg-dry	1	12/01/08 12:44
Benzo[a]pyrene	ND		500	15	µg/Kg-dry	1	12/01/08 12:44
Benzo[b]fluoranthene	ND		500	18	µg/Kg-dry	1	12/01/08 12:44
Benzo[g,h,i]perylene	ND		500	20	µg/Kg-dry	1	12/01/08 12:44
Benzo[k]fluoranthene	ND		500	17	µg/Kg-dry	1	12/01/08 12:44
Chrysene	ND		500	4.3	µg/Kg-dry	1	12/01/08 12:44
Dibenz[a,h]anthracene	ND		500	20	µg/Kg-dry	1	12/01/08 12:44
Fluoranthene	ND		500	15	µg/Kg-dry	1	12/01/08 12:44
Fluorene	ND		500	5.2	µg/Kg-dry	1	12/01/08 12:44
Indeno[1,2,3-cd]pyrene	ND		500	20	µg/Kg-dry	1	12/01/08 12:44
Naphthalene	ND		500	3.9	µg/Kg-dry	1	12/01/08 12:44
Phenanthrene	ND		500	2.2	µg/Kg-dry	1	12/01/08 12:44
Pyrene	ND		500	3.4	µg/Kg-dry	1	12/01/08 12:44
Surr: 2,4,6-Tribromophenol	58		20-143	0	%REC	1	12/01/08 12:44
Surr: 2-Fluorobiphenyl	75		46-130	0	%REC	1	12/01/08 12:44
Surr: 2-Fluorophenol	77		22-130	0	%REC	1	12/01/08 12:44
Surr: Nitrobenzene-d5	75		39-130	0	%REC	1	12/01/08 12:44
Surr: Phenol-d5	80		33-130	0	%REC	1	12/01/08 12:44
Surr: Terphenyl-d14	86		36-146	0	%REC	1	12/01/08 12:44

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering

Project: Ithaca Dredging

W Order: 0811131

Matrix: SOIL

Inst. ID: MS06 40

ColumnID: DB-5MS

Revision: 12/02/08 11:37

Col Type:

Sample Size: 30 g

%Moisture: 30.4

TestCode: 8270S

Lab ID: 0811131-005D

Client Sample ID: Ith-6 (6-10)

Collection Date: 11/18/08 14:10

Date Received: 11/18/08 16:28

PrepDate: 11/21/08 15:07

BatchNo: 8508/R15641

FileID: 1-SAMP-K5202.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8270C		(SW3550B)
2-Chloronaphthalene	ND		470	5.3	µg/Kg-dry	1	12/01/08 13:23
2-Methylnaphthalene	ND		470	2.3	µg/Kg-dry	1	12/01/08 13:23
Acenaphthene	ND		470	4.8	µg/Kg-dry	1	12/01/08 13:23
Acenaphthylene	ND		470	5.7	µg/Kg-dry	1	12/01/08 13:23
Anthracene	ND		470	3.3	µg/Kg-dry	1	12/01/08 13:23
Benzo[a]anthracene	ND		470	5.0	µg/Kg-dry	1	12/01/08 13:23
Benzo[a]pyrene	ND		470	14	µg/Kg-dry	1	12/01/08 13:23
Benzo[b]fluoranthene	ND		470	17	µg/Kg-dry	1	12/01/08 13:23
Benzo[g,h,i]perylene	ND		470	19	µg/Kg-dry	1	12/01/08 13:23
Benzo[k]fluoranthene	ND		470	16	µg/Kg-dry	1	12/01/08 13:23
Chrysene	ND		470	4.0	µg/Kg-dry	1	12/01/08 13:23
Dibenz[a,h]anthracene	ND		470	19	µg/Kg-dry	1	12/01/08 13:23
Fluoranthene	65 J		470	14	µg/Kg-dry	1	12/01/08 13:23
Fluorene	ND		470	4.9	µg/Kg-dry	1	12/01/08 13:23
Indeno[1,2,3-cd]pyrene	ND		470	19	µg/Kg-dry	1	12/01/08 13:23
Naphthalene	ND		470	3.6	µg/Kg-dry	1	12/01/08 13:23
Phenanthrene	71 J		470	2.1	µg/Kg-dry	1	12/01/08 13:23
Pyrene	54 J		470	3.2	µg/Kg-dry	1	12/01/08 13:23
Surr: 2,4,6-Tribromophenol	52		20-143	0	%REC	1	12/01/08 13:23
Surr: 2-Fluorobiphenyl	69		46-130	0	%REC	1	12/01/08 13:23
Surr: 2-Fluorophenol	71		22-130	0	%REC	1	12/01/08 13:23
Surr: Nitrobenzene-d5	69		39-130	0	%REC	1	12/01/08 13:23
Surr: Phenol-d5	75		33-130	0	%REC	1	12/01/08 13:23
Surr: Terphenyl-d14	80		36-146	0	%REC	1	12/01/08 13:23

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering
Project: Ithaca Dredging
W Order: 0811131
Matrix: SOIL
Inst. ID: MS06 40
ColumnID: DB-5MS
Revision: 12/02/08 11:37
Col Type:

Lab ID: 0811131-006D
Client Sample ID: *Ith-6 (10-14)*
Collection Date: 11/18/08 14:20
Date Received: 11/18/08 16:28
PrepDate: 11/21/08 15:07
BatchNo: 8508/R15641
FileID: 1-SAMP-K5203.D

Sample Size: 30 g
%Moisture: 34.7
TestCode: 8270S

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8270C		(SW3550B)
2-Chloronaphthalene	ND	510	5.6	µg/Kg-dry	1	12/01/08 14:02	
2-Methylnaphthalene	ND	510	2.5	µg/Kg-dry	1	12/01/08 14:02	
Acenaphthene	ND	510	5.1	µg/Kg-dry	1	12/01/08 14:02	
Acenaphthylene	ND	510	6.1	µg/Kg-dry	1	12/01/08 14:02	
Anthracene	ND	510	3.6	µg/Kg-dry	1	12/01/08 14:02	
Benzo[a]anthracene	ND	510	5.3	µg/Kg-dry	1	12/01/08 14:02	
Benzo[a]pyrene	ND	510	15	µg/Kg-dry	1	12/01/08 14:02	
Benzo[b]fluoranthene	ND	510	18	µg/Kg-dry	1	12/01/08 14:02	
Benzo[g,h,i]perylene	ND	510	20	µg/Kg-dry	1	12/01/08 14:02	
Benzo[k]fluoranthene	ND	510	17	µg/Kg-dry	1	12/01/08 14:02	
Chrysene	ND	510	4.3	µg/Kg-dry	1	12/01/08 14:02	
Dibenz[a,h]anthracene	ND	510	20	µg/Kg-dry	1	12/01/08 14:02	
Fluoranthene	ND	510	15	µg/Kg-dry	1	12/01/08 14:02	
Fluorene	ND	510	5.2	µg/Kg-dry	1	12/01/08 14:02	
Indeno[1,2,3-cd]pyrene	ND	510	20	µg/Kg-dry	1	12/01/08 14:02	
Naphthalene	ND	510	3.9	µg/Kg-dry	1	12/01/08 14:02	
Phenanthrene	ND	510	2.2	µg/Kg-dry	1	12/01/08 14:02	
Pyrene	ND	510	3.4	µg/Kg-dry	1	12/01/08 14:02	
Surr: 2,4,6-Tribromophenol	55	20-143	0	%REC	1	12/01/08 14:02	
Surr: 2-Fluorobiphenyl	72	46-130	0	%REC	1	12/01/08 14:02	
Surr: 2-Fluorophenol	74	22-130	0	%REC	1	12/01/08 14:02	
Surr: Nitrobenzene-d5	73	39-130	0	%REC	1	12/01/08 14:02	
Surr: Phenol-d5	79	33-130	0	%REC	1	12/01/08 14:02	
Surr: Terphenyl-d14	85	36-146	0	%REC	1	12/01/08 14:02	

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering

Project: Ithaca Dredging

W Order: 0811142

Matrix: SOIL

Inst. ID: MS06 40

ColumnID: DB-5MS

Revision: 12/02/08 11:37

Col Type:

Sample Size: 30 g

%Moisture: 38.2

TestCode: 8270S

Lab ID: 0811142-001D

Client Sample ID: Ith-8 (2-10)

Collection Date: 11/19/08 14:30

Date Received: 11/20/08 9:25

PrepDate: 11/21/08 15:07

BatchNo: 8508/R15641

FileID: 1-SAMP-K5204.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8270C		(SW3550B)
2-Chloronaphthalene	ND		530	5.9	µg/Kg-dry	1	12/01/08 14:41
2-Methylnaphthalene	ND		530	2.6	µg/Kg-dry	1	12/01/08 14:41
Acenaphthene	ND		530	5.4	µg/Kg-dry	1	12/01/08 14:41
Acenaphthylene	ND		530	6.5	µg/Kg-dry	1	12/01/08 14:41
Anthracene	ND		530	3.8	µg/Kg-dry	1	12/01/08 14:41
Benzo[a]anthracene	190 J		530	5.6	µg/Kg-dry	1	12/01/08 14:41
Benzo[a]pyrene	190 J		530	16	µg/Kg-dry	1	12/01/08 14:41
Benzo[b]fluoranthene	370 J		530	19	µg/Kg-dry	1	12/01/08 14:41
Benzo[g,h,i]perylene	80 J		530	22	µg/Kg-dry	1	12/01/08 14:41
Benzo[k]fluoranthene	190 J		530	18	µg/Kg-dry	1	12/01/08 14:41
Chrysene	240 J		530	4.5	µg/Kg-dry	1	12/01/08 14:41
Dibenz[a,h]anthracene	ND		530	22	µg/Kg-dry	1	12/01/08 14:41
Fluoranthene	440 J		530	16	µg/Kg-dry	1	12/01/08 14:41
Fluorene	ND		530	5.5	µg/Kg-dry	1	12/01/08 14:41
Indeno[1,2,3-cd]pyrene	ND		530	22	µg/Kg-dry	1	12/01/08 14:41
Naphthalene	ND		530	4.1	µg/Kg-dry	1	12/01/08 14:41
Phenanthrene	230 J		530	2.3	µg/Kg-dry	1	12/01/08 14:41
Pyrene	400 J		530	3.6	µg/Kg-dry	1	12/01/08 14:41
Surr: 2,4,6-Tribromophenol	58		20-143	0	%REC	1	12/01/08 14:41
Surr: 2-Fluorobiphenyl	78		46-130	0	%REC	1	12/01/08 14:41
Surr: 2-Fluorophenol	77		22-130	0	%REC	1	12/01/08 14:41
Surr: Nitrobenzene-d5	77		39-130	0	%REC	1	12/01/08 14:41
Surr: Phenol-d5	83		33-130	0	%REC	1	12/01/08 14:41
Surr: Terphenyl-d14	94		36-146	0	%REC	1	12/01/08 14:41

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits

Print Date: 12/02/08 11:39

407344

Project Supervisor: Anthony Crescenzi



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering
Project: Ithaca Dredging
W Order: 0811142
Matrix: SOIL
Inst. ID: MS06 40
ColumnID: DB-5MS
Revision: 12/02/08 11:37
Col Type:

Sample Size: 30 g
%Moisture: 31.3
TestCode: 8270S

Lab ID: 0811142-002D
Client Sample ID: *Ith-8 (10-14)*
Collection Date: 11/19/08 14:45
Date Received: 11/20/08 9:25
PrepDate: 11/21/08 15:07
BatchNo: 8508/R15641
FileID: 1-SAMP-K5205.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8270C		(SW3550B)
2-Chloronaphthalene	ND		480	5.3	µg/Kg-dry	1	12/01/08 15:19
2-Methylnaphthalene	69 J		480	2.3	µg/Kg-dry	1	12/01/08 15:19
Acenaphthene	ND		480	4.8	µg/Kg-dry	1	12/01/08 15:19
Acenaphthylene	ND		480	5.8	µg/Kg-dry	1	12/01/08 15:19
Anthracene	ND		480	3.4	µg/Kg-dry	1	12/01/08 15:19
Benzo[a]anthracene	ND		480	5.0	µg/Kg-dry	1	12/01/08 15:19
Benzo[a]pyrene	ND		480	15	µg/Kg-dry	1	12/01/08 15:19
Benzo[b]fluoranthene	ND		480	17	µg/Kg-dry	1	12/01/08 15:19
Benzo[g,h,i]perylene	ND		480	19	µg/Kg-dry	1	12/01/08 15:19
Benzo[k]fluoranthene	ND		480	16	µg/Kg-dry	1	12/01/08 15:19
Chrysene	ND		480	4.1	µg/Kg-dry	1	12/01/08 15:19
Dibenz[a,h]anthracene	ND		480	19	µg/Kg-dry	1	12/01/08 15:19
Fluoranthene	ND		480	15	µg/Kg-dry	1	12/01/08 15:19
Fluorene	ND		480	5.0	µg/Kg-dry	1	12/01/08 15:19
Indeno[1,2,3-cd]pyrene	ND		480	19	µg/Kg-dry	1	12/01/08 15:19
Naphthalene	ND		480	3.7	µg/Kg-dry	1	12/01/08 15:19
Phenanthrene	68 J		480	2.1	µg/Kg-dry	1	12/01/08 15:19
Pyrene	ND		480	3.3	µg/Kg-dry	1	12/01/08 15:19
Surr: 2,4,6-Tribromophenol	53		20-143	0	%REC	1	12/01/08 15:19
Surr: 2-Fluorobiphenyl	70		46-130	0	%REC	1	12/01/08 15:19
Surr: 2-Fluorophenol	72		22-130	0	%REC	1	12/01/08 15:19
Surr: Nitrobenzene-d5	72		39-130	0	%REC	1	12/01/08 15:19
Surr: Phenol-d5	77		33-130	0	%REC	1	12/01/08 15:19
Surr: Terphenyl-d14	82		36-146	0	%REC	1	12/01/08 15:19

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

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East Syracuse, NY 13057

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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering

Project: Ithaca Dredging

W Order: 0811142

Matrix: SOIL

Inst. ID: MS06 40

ColumnID: DB-5MS

Revision: 12/02/08 11:37

Col Type:

Sample Size: 30 g

%Moisture: 30.2

TestCode: 8270S

Lab ID: 0811142-003D

Client Sample ID: *Ith-7 (I-14)*

Collection Date: 11/19/08 13:50

Date Received: 11/20/08 9:25

PrepDate: 11/21/08 15:07

BatchNo: 8508/R15641

FileID: I-SAMP-K5206.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8270C		(SW3550B)
2-Chloronaphthalene	ND		470	5.3	µg/Kg-dry	1	12/01/08 15:58
2-Methylnaphthalene	90 J		470	2.3	µg/Kg-dry	1	12/01/08 15:58
Acenaphthene	120 J		470	4.7	µg/Kg-dry	1	12/01/08 15:58
Acenaphthylene	ND		470	5.7	µg/Kg-dry	1	12/01/08 15:58
Anthracene	230 J		470	3.3	µg/Kg-dry	1	12/01/08 15:58
Benzo[a]anthracene	390 J		470	5.0	µg/Kg-dry	1	12/01/08 15:58
Benzo[a]pyrene	350 J		470	14	µg/Kg-dry	1	12/01/08 15:58
Benzo[b]fluoranthene	590		470	17	µg/Kg-dry	1	12/01/08 15:58
Benzo[g,h,i]perylene	130 J		470	19	µg/Kg-dry	1	12/01/08 15:58
Benzo[k]fluoranthene	210 J		470	16	µg/Kg-dry	1	12/01/08 15:58
Chrysene	460 J		470	4.0	µg/Kg-dry	1	12/01/08 15:58
Dibenz[a,h]anthracene	ND		470	19	µg/Kg-dry	1	12/01/08 15:58
Fluoranthene	1200		470	14	µg/Kg-dry	1	12/01/08 15:58
Fluorene	160 J		470	4.9	µg/Kg-dry	1	12/01/08 15:58
Indeno[1,2,3-cd]pyrene	70 J		470	19	µg/Kg-dry	1	12/01/08 15:58
Naphthalene	130 J		470	3.6	µg/Kg-dry	1	12/01/08 15:58
Phenanthrene	1500		470	2.1	µg/Kg-dry	1	12/01/08 15:58
Pyrene	1100		470	3.2	µg/Kg-dry	1	12/01/08 15:58
Surr: 2,4,6-Tribromophenol	51		20-143	0	%REC	1	12/01/08 15:58
Surr: 2-Fluorobiphenyl	68		46-130	0	%REC	1	12/01/08 15:58
Surr: 2-Fluorophenol	71		22-130	0	%REC	1	12/01/08 15:58
Surr: Nitrobenzene-d5	68		39-130	0	%REC	1	12/01/08 15:58
Surr: Phenol-d5	74		33-130	0	%REC	1	12/01/08 15:58
Surr: Terphenyl-d14	78		36-146	0	%REC	1	12/01/08 15:58

Qualifiers:

* Value exceeds Maximum Contaminant Level

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

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East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering

Project: Ithaca Dredging

W Order: 0811142

Matrix: SOIL

Inst. ID: MS06 40

ColumnID: DB-5MS

Revision: 12/02/08 11:37

Col Type:

Sample Size: 30 g

%Moisture: 34.3

TestCode: 8270S

Lab ID: 0811142-004D

Client Sample ID: *Ith-5 (4-10)*

Collection Date: 11/19/08 12:40

Date Received: 11/20/08 9:25

PrepDate: 11/21/08 15:07

BatchNo: 8508/R15641

FileID: 1-SAMP-K5207.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8270C		(SW3550B)
2-Chloronaphthalene	ND	500	5.6	µg/Kg-dry	1	12/01/08 16:37	
2-Methylnaphthalene	ND	500	2.4	µg/Kg-dry	1	12/01/08 16:37	
Acenaphthene	ND	500	5.0	µg/Kg-dry	1	12/01/08 16:37	
Acenaphthylene	ND	500	6.1	µg/Kg-dry	1	12/01/08 16:37	
Anthracene	ND	500	3.5	µg/Kg-dry	1	12/01/08 16:37	
Benzo[a]anthracene	ND	500	5.3	µg/Kg-dry	1	12/01/08 16:37	
Benzo[a]pyrene	ND	500	15	µg/Kg-dry	1	12/01/08 16:37	
Benzo[b]fluoranthene	ND	500	18	µg/Kg-dry	1	12/01/08 16:37	
Benzo[g,h,i]perylene	ND	500	20	µg/Kg-dry	1	12/01/08 16:37	
Benzo[k]fluoranthene	ND	500	17	µg/Kg-dry	1	12/01/08 16:37	
Chrysene	ND	500	4.3	µg/Kg-dry	1	12/01/08 16:37	
Dibenz[a,h]anthracene	ND	500	20	µg/Kg-dry	1	12/01/08 16:37	
Fluoranthene	ND	500	15	µg/Kg-dry	1	12/01/08 16:37	
Fluorene	ND	500	5.2	µg/Kg-dry	1	12/01/08 16:37	
Indeno[1,2,3-cd]pyrene	ND	500	20	µg/Kg-dry	1	12/01/08 16:37	
Naphthalene	ND	500	3.9	µg/Kg-dry	1	12/01/08 16:37	
Phenanthrene	ND	500	2.2	µg/Kg-dry	1	12/01/08 16:37	
Pyrene	ND	500	3.4	µg/Kg-dry	1	12/01/08 16:37	
Surr: 2,4,6-Tribromophenol	56	20-143	0	%REC	1	12/01/08 16:37	
Surr: 2-Fluorobiphenyl	73	46-130	0	%REC	1	12/01/08 16:37	
Surr: 2-Fluorophenol	73	22-130	0	%REC	1	12/01/08 16:37	
Surr: Nitrobenzene-d5	70	39-130	0	%REC	1	12/01/08 16:37	
Surr: Phenol-d5	79	33-130	0	%REC	1	12/01/08 16:37	
Surr: Terphenyl-d14	86	36-146	0	%REC	1	12/01/08 16:37	

Qualifiers:		
*	Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

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East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering

Project: Ithaca Dredging

W Order: 0811142

Matrix: SOIL

Inst. ID: MS06 40

ColumnID: DB-5MS

Revision: 12/02/08 11:37

Col Type:

Sample Size: 30 g

%Moisture: 29.0

TestCode: 8270S

Lab ID: 0811142-005D

Client Sample ID: *Ith-5 (10-14)*

Collection Date: 11/19/08 12:50

Date Received: 11/20/08 9:25

PrepDate: 11/21/08 15:07

BatchNo: 8508/R15641

FileID: 1-SAMP-K5208.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8270C		(SW3550B)
2-Chloronaphthalene	ND		460	5.2	µg/Kg-dry	1	12/01/08 17:16
2-Methylnaphthalene	ND		460	2.3	µg/Kg-dry	1	12/01/08 17:16
Acenaphthene	ND		460	4.7	µg/Kg-dry	1	12/01/08 17:16
Acenaphthylene	ND		460	5.6	µg/Kg-dry	1	12/01/08 17:16
Anthracene	ND		460	3.3	µg/Kg-dry	1	12/01/08 17:16
Benzo[a]anthracene	ND		460	4.9	µg/Kg-dry	1	12/01/08 17:16
Benzo[a]pyrene	ND		460	14	µg/Kg-dry	1	12/01/08 17:16
Benzo[b]fluoranthene	ND		460	16	µg/Kg-dry	1	12/01/08 17:16
Benzo[g,h,i]perylene	ND		460	19	µg/Kg-dry	1	12/01/08 17:16
Benzo[k]fluoranthene	ND		460	16	µg/Kg-dry	1	12/01/08 17:16
Chrysene	ND		460	3.9	µg/Kg-dry	1	12/01/08 17:16
Dibenz[a,h]anthracene	ND		460	19	µg/Kg-dry	1	12/01/08 17:16
Fluoranthene	ND		460	14	µg/Kg-dry	1	12/01/08 17:16
Fluorene	ND		460	4.8	µg/Kg-dry	1	12/01/08 17:16
Indeno[1,2,3-cd]pyrene	ND		460	19	µg/Kg-dry	1	12/01/08 17:16
Naphthalene	ND		460	3.6	µg/Kg-dry	1	12/01/08 17:16
Phenanthrene	ND		460	2.0	µg/Kg-dry	1	12/01/08 17:16
Pyrene	ND		460	3.2	µg/Kg-dry	1	12/01/08 17:16
Surr: 2,4,6-Tribromophenol	49		20-143	0	%REC	1	12/01/08 17:16
Surr: 2-Fluorobiphenyl	65		46-130	0	%REC	1	12/01/08 17:16
Surr: 2-Fluorophenol	67		22-130	0	%REC	1	12/01/08 17:16
Surr: Nitrobenzene-d5	66		39-130	0	%REC	1	12/01/08 17:16
Surr: Phenol-d5	72		33-130	0	%REC	1	12/01/08 17:16
Surr: Terphenyl-d14	77		36-146	0	%REC	1	12/01/08 17:16

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

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(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering

Project: Ithaca Dredging

W Order: 0811142

Matrix: SOIL

Inst. ID: MS06 40

ColumnID: DB-5MS

Revision: 12/02/08 11:37

Col Type:

Sample Size: 30 g

%Moisture: 34.9

TestCode: 8270S

Lab ID: 0811142-006D

Client Sample ID: Ith-1 (6-12)

Collection Date: 11/19/08 10:30

Date Received: 11/20/08 9:25

PrepDate: 11/21/08 15:07

BatchNo: 8508/R15641

FileID: 1-SAMP-K5209.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8270C		(SW3550B)
2-Chloronaphthalene	ND		510	5.6	µg/Kg-dry	1	12/01/08 17:55
2-Methylnaphthalene	ND		510	2.5	µg/Kg-dry	1	12/01/08 17:55
Acenaphthene	ND		510	5.1	µg/Kg-dry	1	12/01/08 17:55
Acenaphthylene	ND		510	6.1	µg/Kg-dry	1	12/01/08 17:55
Anthracene	ND		510	3.6	µg/Kg-dry	1	12/01/08 17:55
Benzo[a]anthracene	140 J		510	5.3	µg/Kg-dry	1	12/01/08 17:55
Benzo[a]pyrene	140 J		510	15	µg/Kg-dry	1	12/01/08 17:55
Benzo[b]fluoranthene	240 J		510	18	µg/Kg-dry	1	12/01/08 17:55
Benzo[g,h,i]perylene	ND		510	20	µg/Kg-dry	1	12/01/08 17:55
Benzo[k]fluoranthene	90 J		510	17	µg/Kg-dry	1	12/01/08 17:55
Chrysene	170 J		510	4.3	µg/Kg-dry	1	12/01/08 17:55
Dibenz[a,h]anthracene	ND		510	20	µg/Kg-dry	1	12/01/08 17:55
Fluoranthene	350 J		510	15	µg/Kg-dry	1	12/01/08 17:55
Fluorene	ND		510	5.2	µg/Kg-dry	1	12/01/08 17:55
Indeno[1,2,3-cd]pyrene	ND		510	20	µg/Kg-dry	1	12/01/08 17:55
Naphthalene	ND		510	3.9	µg/Kg-dry	1	12/01/08 17:55
Phenanthrene	230 J		510	2.2	µg/Kg-dry	1	12/01/08 17:55
Pyrene	330 J		510	3.5	µg/Kg-dry	1	12/01/08 17:55
Surr: 2,4,6-Tribromophenol	53		20-143	0	%REC	1	12/01/08 17:55
Surr: 2-Fluorobiphenyl	72		46-130	0	%REC	1	12/01/08 17:55
Surr: 2-Fluorophenol	73		22-130	0	%REC	1	12/01/08 17:55
Surr: Nitrobenzene-d5	71		39-130	0	%REC	1	12/01/08 17:55
Surr: Phenol-d5	77		33-130	0	%REC	1	12/01/08 17:55
Surr: Terphenyl-d14	85		36-146	0	%REC	1	12/01/08 17:55

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering

Project: Ithaca Dredging

W Order: 0811142

Matrix: SOIL

Inst. ID: MS06 40

ColumnID: DB-5MS

Revision: 12/02/08 11:37

Col Type:

Sample Size: 30 g

%Moisture: 33.4

TestCode: 8270S

Lab ID: 0811142-007D

Client Sample ID: Ith-Dup1

Collection Date: 11/19/08 0:00

Date Received: 11/20/08 9:25

PrepDate: 11/21/08 15:07

BatchNo: 8508/R15641

FileID: 1-SAMP-K5210.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8270C		(SW3550B)
2-Chloronaphthalene	ND		500	5.5	µg/Kg-dry	1	12/01/08 18:34
2-Methylnaphthalene	ND		500	2.4	µg/Kg-dry	1	12/01/08 18:34
Acenaphthene	ND		500	5.0	µg/Kg-dry	1	12/01/08 18:34
Acenaphthylene	ND		500	6.0	µg/Kg-dry	1	12/01/08 18:34
Anthracene	ND		500	3.5	µg/Kg-dry	1	12/01/08 18:34
Benzo[a]anthracene	150 J		500	5.2	µg/Kg-dry	1	12/01/08 18:34
Benzo[a]pyrene	140 J		500	15	µg/Kg-dry	1	12/01/08 18:34
Benzo[b]fluoranthene	240 J		500	17	µg/Kg-dry	1	12/01/08 18:34
Benzo[g,h,i]perylene	51 J		500	20	µg/Kg-dry	1	12/01/08 18:34
Benzo[k]fluoranthene	100 J		500	17	µg/Kg-dry	1	12/01/08 18:34
Chrysene	170 J		500	4.2	µg/Kg-dry	1	12/01/08 18:34
Dibenz[a,h]anthracene	ND		500	20	µg/Kg-dry	1	12/01/08 18:34
Fluoranthene	350 J		500	15	µg/Kg-dry	1	12/01/08 18:34
Fluorene	ND		500	5.1	µg/Kg-dry	1	12/01/08 18:34
Indeno[1,2,3-cd]pyrene	ND		500	20	µg/Kg-dry	1	12/01/08 18:34
Naphthalene	ND		500	3.8	µg/Kg-dry	1	12/01/08 18:34
Phenanthrene	230 J		500	2.2	µg/Kg-dry	1	12/01/08 18:34
Pyrene	330 J		500	3.4	µg/Kg-dry	1	12/01/08 18:34
Surr: 2,4,6-Tribromophenol	55		20-143	0	%REC	1	12/01/08 18:34
Surr: 2-Fluorobiphenyl	73		46-130	0	%REC	1	12/01/08 18:34
Surr: 2-Fluorophenol	74		22-130	0	%REC	1	12/01/08 18:34
Surr: Nitrobenzene-d5	72		39-130	0	%REC	1	12/01/08 18:34
Surr: Phenol-d5	79		33-130	0	%REC	1	12/01/08 18:34
Surr: Terphenyl-d14	88		36-146	0	%REC	1	12/01/08 18:34

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering
Project: Ithaca Dredging
W Order: 0811166
Matrix: SOIL
Inst. ID: MS06 40
ColumnID: DB-5MS
Revision: 12/04/08 12:59
Col Type:

Sample Size: 30 g
%Moisture: 35.0
TestCode: 8270S

Lab ID: 0811166-001D
Client Sample ID: *Ith-9 (1-14)*
Collection Date: 11/20/08 15:15
Date Received: 11/21/08 16:16
PrepDate: 11/24/08 16:01
BatchNo: 8521/R15678
FileID: 1-SAMP-K5224.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8270C		(SW3550B)
2-Chloronaphthalene	ND	510	5.6	µg/Kg-dry	1	12/03/08 18:28	
2-Methylnaphthalene	ND	510	2.5	µg/Kg-dry	1	12/03/08 18:28	
Acenaphthene	ND	510	5.1	µg/Kg-dry	1	12/03/08 18:28	
Acenaphthylene	ND	510	6.2	µg/Kg-dry	1	12/03/08 18:28	
Anthracene	ND	510	3.6	µg/Kg-dry	1	12/03/08 18:28	
Benzo[a]anthracene	ND	510	5.3	µg/Kg-dry	1	12/03/08 18:28	
Benzo[a]pyrene	ND	510	15	µg/Kg-dry	1	12/03/08 18:28	
Benzo[b]fluoranthene	ND	510	18	µg/Kg-dry	1	12/03/08 18:28	
Benzo[g,h,i]perylene	ND	510	20	µg/Kg-dry	1	12/03/08 18:28	
Benzo[k]fluoranthene	ND	510	17	µg/Kg-dry	1	12/03/08 18:28	
Chrysene	ND	510	4.3	µg/Kg-dry	1	12/03/08 18:28	
Dibenz[a,h]anthracene	ND	510	20	µg/Kg-dry	1	12/03/08 18:28	
Fluoranthene	ND	510	15	µg/Kg-dry	1	12/03/08 18:28	
Fluorene	ND	510	5.2	µg/Kg-dry	1	12/03/08 18:28	
Indeno[1,2,3-cd]pyrene	ND	510	20	µg/Kg-dry	1	12/03/08 18:28	
Naphthalene	ND	510	3.9	µg/Kg-dry	1	12/03/08 18:28	
Phenanthrene	ND	510	2.2	µg/Kg-dry	1	12/03/08 18:28	
Pyrene	ND	510	3.5	µg/Kg-dry	1	12/03/08 18:28	
Surr: 2,4,6-Tribromophenol	58	20-143	0	%REC	1	12/03/08 18:28	
Surr: 2-Fluorobiphenyl	72	46-130	0	%REC	1	12/03/08 18:28	
Surr: 2-Fluorophenol	73	22-130	0	%REC	1	12/03/08 18:28	
Surr: Nitrobenzene-d5	70	39-130	0	%REC	1	12/03/08 18:28	
Surr: Phenol-d5	77	33-130	0	%REC	1	12/03/08 18:28	
Surr: Terphenyl-d14	86	36-146	0	%REC	1	12/03/08 18:28	

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering
Project: Ithaca Dredging
W Order: 0811166
Matrix: SOIL
Inst. ID: MS06 40
ColumnID: DB-5MS
Revision: 12/04/08 12:59
Col Type:

Sample Size: 30 g
%Moisture: 34.1
TestCode: 8270S

Lab ID: 0811166-002D
Client Sample ID: *Ith-10 (1-14)*
Collection Date: 11/20/08 14:15
Date Received: 11/21/08 16:16
PrepDate: 11/24/08 16:01
BatchNo: 8521/R15678
FileID: 1-SAMP-K5225.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8270C		(SW3550B)
2-Chloronaphthalene	ND		500	5.6	µg/Kg-dry	1	12/03/08 19:07
2-Methylnaphthalene	ND		500	2.4	µg/Kg-dry	1	12/03/08 19:07
Acenaphthene	ND		500	5.0	µg/Kg-dry	1	12/03/08 19:07
Acenaphthylene	ND		500	6.1	µg/Kg-dry	1	12/03/08 19:07
Anthracene	ND		500	3.5	µg/Kg-dry	1	12/03/08 19:07
Benzo[a]anthracene	ND		500	5.3	µg/Kg-dry	1	12/03/08 19:07
Benzo[a]pyrene	ND		500	15	µg/Kg-dry	1	12/03/08 19:07
Benzo[b]fluoranthene	ND		500	17	µg/Kg-dry	1	12/03/08 19:07
Benzo[g,h,i]perylene	ND		500	20	µg/Kg-dry	1	12/03/08 19:07
Benzo[k]fluoranthene	ND		500	17	µg/Kg-dry	1	12/03/08 19:07
Chrysene	ND		500	4.2	µg/Kg-dry	1	12/03/08 19:07
Dibenz[a,h]anthracene	ND		500	20	µg/Kg-dry	1	12/03/08 19:07
Fluoranthene	ND		500	15	µg/Kg-dry	1	12/03/08 19:07
Fluorene	ND		500	5.2	µg/Kg-dry	1	12/03/08 19:07
Indeno[1,2,3-cd]pyrene	ND		500	20	µg/Kg-dry	1	12/03/08 19:07
Naphthalene	ND		500	3.8	µg/Kg-dry	1	12/03/08 19:07
Phenanthrene	ND		500	2.2	µg/Kg-dry	1	12/03/08 19:07
Pyrene	ND		500	3.4	µg/Kg-dry	1	12/03/08 19:07
Surr: 2,4,6-Tribromophenol	58		20-143	0	%REC	1	12/03/08 19:07
Surr: 2-Fluorobiphenyl	74		46-130	0	%REC	1	12/03/08 19:07
Surr: 2-Fluorophenol	73		22-130	0	%REC	1	12/03/08 19:07
Surr: Nitrobenzene-d5	72		39-130	0	%REC	1	12/03/08 19:07
Surr: Phenol-d5	77		33-130	0	%REC	1	12/03/08 19:07
Surr: Terphenyl-d14	85		36-146	0	%REC	1	12/03/08 19:07

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811166-003D
Project: Ithaca Dredging	Client Sample ID: <i>Ith-11 (1-14)</i>
W Order: 0811166	Collection Date: 11/20/08 12:20
Matrix: SOIL	Date Received: 11/21/08 16:16
Inst. ID: MS06 40	PrepDate: 11/24/08 16:01
ColumnID: DB-5MS	BatchNo: 8521/R15678
Revision: 12/04/08 12:59	FileID: 1-SAMP-K5226.D
Col Type:	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8270C		(SW3550B)
2-Chloronaphthalene	ND	490	5.4	µg/Kg-dry	1	12/03/08 19:46	
2-Methylnaphthalene	ND	490	2.4	µg/Kg-dry	1	12/03/08 19:46	
Acenaphthene	ND	490	4.9	µg/Kg-dry	1	12/03/08 19:46	
Acenaphthylene	ND	490	5.9	µg/Kg-dry	1	12/03/08 19:46	
Anthracene	ND	490	3.4	µg/Kg-dry	1	12/03/08 19:46	
Benzo[a]anthracene	ND	490	5.1	µg/Kg-dry	1	12/03/08 19:46	
Benzo[a]pyrene	ND	490	15	µg/Kg-dry	1	12/03/08 19:46	
Benzo[b]fluoranthene	ND	490	17	µg/Kg-dry	1	12/03/08 19:46	
Benzo[g,h,i]perylene	ND	490	20	µg/Kg-dry	1	12/03/08 19:46	
Benzo[k]fluoranthene	ND	490	16	µg/Kg-dry	1	12/03/08 19:46	
Chrysene	ND	490	4.1	µg/Kg-dry	1	12/03/08 19:46	
Dibenz[a,h]anthracene	ND	490	20	µg/Kg-dry	1	12/03/08 19:46	
Fluoranthene	ND	490	15	µg/Kg-dry	1	12/03/08 19:46	
Fluorene	ND	490	5.0	µg/Kg-dry	1	12/03/08 19:46	
Indeno[1,2,3-cd]pyrene	ND	490	20	µg/Kg-dry	1	12/03/08 19:46	
Naphthalene	ND	490	3.7	µg/Kg-dry	1	12/03/08 19:46	
Phenanthrene	ND	490	2.1	µg/Kg-dry	1	12/03/08 19:46	
Pyrene	ND	490	3.3	µg/Kg-dry	1	12/03/08 19:46	
Surr: 2,4,6-Tribromophenol	55	20-143	0	%REC	1	12/03/08 19:46	
Surr: 2-Fluorobiphenyl	61	46-130	0	%REC	1	12/03/08 19:46	
Surr: 2-Fluorophenol	59	22-130	0	%REC	1	12/03/08 19:46	
Surr: Nitrobenzene-d5	59	39-130	0	%REC	1	12/03/08 19:46	
Surr: Phenol-d5	64	33-130	0	%REC	1	12/03/08 19:46	
Surr: Terphenyl-d14	82	36-146	0	%REC	1	12/03/08 19:46	

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

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East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering

Project: Ithaca Dredging

W Order: 0811166

Matrix: SOIL

Inst. ID: MS06 40

ColumnID: DB-5MS

Revision: 12/04/08 12:59

Col Type:

Sample Size: 30 g

%Moisture: 36.2

TestCode: 8270S

Lab ID: 0811166-004D

Client Sample ID: *Ith-12 (1-14)*

Collection Date: 11/20/08 10:45

Date Received: 11/21/08 16:16

PrepDate: 11/24/08 16:01

BatchNo: 8521/R15678

FileID: 1-SAMP-K5217.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8270C		(SW3550B)
2-Chloronaphthalene	ND		520	5.8	µg/Kg-dry	1	12/03/08 13:57
2-Methylnaphthalene	ND		520	2.5	µg/Kg-dry	1	12/03/08 13:57
Acenaphthene	ND		520	5.2	µg/Kg-dry	1	12/03/08 13:57
Acenaphthylene	ND		520	6.3	µg/Kg-dry	1	12/03/08 13:57
Anthracene	ND		520	3.7	µg/Kg-dry	1	12/03/08 13:57
Benzo[a]anthracene	ND		520	5.4	µg/Kg-dry	1	12/03/08 13:57
Benzo[a]pyrene	ND		520	16	µg/Kg-dry	1	12/03/08 13:57
Benzo[b]fluoranthene	ND		520	18	µg/Kg-dry	1	12/03/08 13:57
Benzo[g,h,i]perylene	ND		520	21	µg/Kg-dry	1	12/03/08 13:57
Benzo[k]fluoranthene	ND		520	17	µg/Kg-dry	1	12/03/08 13:57
Chrysene	ND		520	4.4	µg/Kg-dry	1	12/03/08 13:57
Dibenz[a,h]anthracene	ND		520	21	µg/Kg-dry	1	12/03/08 13:57
Fluoranthene	ND		520	16	µg/Kg-dry	1	12/03/08 13:57
Fluorene	ND		520	5.3	µg/Kg-dry	1	12/03/08 13:57
Indeno[1,2,3-cd]pyrene	ND		520	21	µg/Kg-dry	1	12/03/08 13:57
Naphthalene	ND		520	4.0	µg/Kg-dry	1	12/03/08 13:57
Phenanthrene	ND		520	2.3	µg/Kg-dry	1	12/03/08 13:57
Pyrene	ND		520	3.5	µg/Kg-dry	1	12/03/08 13:57
Surr: 2,4,6-Tribromophenol	62		20-143	0	%REC	1	12/03/08 13:57
Surr: 2-Fluorobiphenyl	78		46-130	0	%REC	1	12/03/08 13:57
Surr: 2-Fluorophenol	80		22-130	0	%REC	1	12/03/08 13:57
Surr: Nitrobenzene-d5	77		39-130	0	%REC	1	12/03/08 13:57
Surr: Phenol-d5	84		33-130	0	%REC	1	12/03/08 13:57
Surr: Terphenyl-d14	88		36-146	0	%REC	1	12/03/08 13:57

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



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East Syracuse, NY 13057

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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering

Project: Ithaca Dredging

W Order: 0811166

Matrix: SOIL

Inst. ID: MS06 40

ColumnID: DB-5MS

Revision: 12/04/08 12:59

Col Type:

Sample Size: 30 g

%Moisture: 25.2

TestCode: 8270S

Lab ID: 0811166-005D

Client Sample ID: Ith-16 (1-14)

Collection Date: 11/20/08 9:30

Date Received: 11/21/08 16:16

PrepDate: 11/24/08 16:01

BatchNo: 8521/R15678

FileID: 1-SAMP-K5221.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8270C		(SW3550B)
2-Chloronaphthalene	ND	440	4.9	µg/Kg-dry	1	12/03/08 16:32	
2-Methylnaphthalene	ND	440	2.1	µg/Kg-dry	1	12/03/08 16:32	
Acenaphthene	ND	440	4.4	µg/Kg-dry	1	12/03/08 16:32	
Acenaphthylene	ND	440	5.3	µg/Kg-dry	1	12/03/08 16:32	
Anthracene	ND	440	3.1	µg/Kg-dry	1	12/03/08 16:32	
Benzo[a]anthracene	ND	440	4.6	µg/Kg-dry	1	12/03/08 16:32	
Benzo[a]pyrene	ND	440	13	µg/Kg-dry	1	12/03/08 16:32	
Benzo[b]fluoranthene	ND	440	15	µg/Kg-dry	1	12/03/08 16:32	
Benzo[g,h,i]perylene	ND	440	18	µg/Kg-dry	1	12/03/08 16:32	
Benzo[k]fluoranthene	ND	440	15	µg/Kg-dry	1	12/03/08 16:32	
Chrysene	ND	440	3.7	µg/Kg-dry	1	12/03/08 16:32	
Dibenz[a,h]anthracene	ND	440	18	µg/Kg-dry	1	12/03/08 16:32	
Fluoranthene	ND	440	13	µg/Kg-dry	1	12/03/08 16:32	
Fluorene	ND	440	4.6	µg/Kg-dry	1	12/03/08 16:32	
Indeno[1,2,3-cd]pyrene	ND	440	18	µg/Kg-dry	1	12/03/08 16:32	
Naphthalene	ND	440	3.4	µg/Kg-dry	1	12/03/08 16:32	
Phenanthrene	ND	440	1.9	µg/Kg-dry	1	12/03/08 16:32	
Pyrene	ND	440	3.0	µg/Kg-dry	1	12/03/08 16:32	
Surr: 2,4,6-Tribromophenol	62	20-143	0	%REC	1	12/03/08 16:32	
Surr: 2-Fluorobiphenyl	81	46-130	0	%REC	1	12/03/08 16:32	
Surr: 2-Fluorophenol	80	22-130	0	%REC	1	12/03/08 16:32	
Surr: Nitrobenzene-d5	80	39-130	0	%REC	1	12/03/08 16:32	
Surr: Phenol-d5	85	33-130	0	%REC	1	12/03/08 16:32	
Surr: Terphenyl-d14	91	36-146	0	%REC	1	12/03/08 16:32	

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering

Project: Ithaca Dredging

W Order: 0811166

Matrix: SOIL

Inst. ID: MS06 40

ColumnID: DB-5MS

Revision: 12/04/08 12:59

Col Type:

Sample Size: 30 g

%Moisture: 25.2

TestCode: 8270S

Lab ID: 0811166-006D

Client Sample ID: *Ith-14 (1-14)*

Collection Date: 11/21/08 9:50

Date Received: 11/21/08 16:16

PrepDate: 11/24/08 16:01

BatchNo: 8521/R15678

FileID: 1-SAMP-K5218.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8270C		(SW3550B)
2-Chloronaphthalene	ND	440	4.9	µg/Kg-dry	1	12/03/08 14:36	
2-Methylnaphthalene	ND	440	2.1	µg/Kg-dry	1	12/03/08 14:36	
Acenaphthene	ND	440	4.4	µg/Kg-dry	1	12/03/08 14:36	
Acenaphthylene	ND	440	5.3	µg/Kg-dry	1	12/03/08 14:36	
Anthracene	ND	440	3.1	µg/Kg-dry	1	12/03/08 14:36	
Benzo[a]anthracene	ND	440	4.6	µg/Kg-dry	1	12/03/08 14:36	
Benzo[a]pyrene	ND	440	13	µg/Kg-dry	1	12/03/08 14:36	
Benzo[b]fluoranthene	ND	440	15	µg/Kg-dry	1	12/03/08 14:36	
Benzo[g,h,i]perylene	ND	440	18	µg/Kg-dry	1	12/03/08 14:36	
Benzo[k]fluoranthene	ND	440	15	µg/Kg-dry	1	12/03/08 14:36	
Chrysene	ND	440	3.7	µg/Kg-dry	1	12/03/08 14:36	
Dibenz[a,h]anthracene	ND	440	18	µg/Kg-dry	1	12/03/08 14:36	
Fluoranthene	ND	440	13	µg/Kg-dry	1	12/03/08 14:36	
Fluorene	ND	440	4.6	µg/Kg-dry	1	12/03/08 14:36	
Indeno[1,2,3-cd]pyrene	ND	440	18	µg/Kg-dry	1	12/03/08 14:36	
Naphthalene	ND	440	3.4	µg/Kg-dry	1	12/03/08 14:36	
Phenanthrene	ND	440	1.9	µg/Kg-dry	1	12/03/08 14:36	
Pyrene	ND	440	3.0	µg/Kg-dry	1	12/03/08 14:36	
Surr: 2,4,6-Tribromophenol	63	20-143	0	%REC	1	12/03/08 14:36	
Surr: 2-Fluorobiphenyl	81	46-130	0	%REC	1	12/03/08 14:36	
Surr: 2-Fluorophenol	79	22-130	0	%REC	1	12/03/08 14:36	
Surr: Nitrobenzene-d5	77	39-130	0	%REC	1	12/03/08 14:36	
Surr: Phenol-d5	84	33-130	0	%REC	1	12/03/08 14:36	
Surr: Terphenyl-d14	90	36-146	0	%REC	1	12/03/08 14:36	

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits

Print Date: 12/04/08 12:59

408349

Project Supervisor: Anthony Crescenzi



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering
Project: Ithaca Dredging
W Order: 0811166
Matrix: SOIL
Inst. ID: MS06 40
ColumnID: DB-5MS
Revision: 12/04/08 12:59
Col Type:

Sample Size: 30 g
%Moisture: 30.9
TestCode: 8270S

Lab ID: 0811166-007D
Client Sample ID: Ith-13 (I-10)
Collection Date: 11/21/08 8:30
Date Received: 11/21/08 16:16
PrepDate: 11/24/08 16:01
BatchNo: 8521/R15678
FileID: 1-SAMP-K5219.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8270C		(SW3550B)
2-Chloronaphthalene	ND		480	5.3	µg/Kg-dry	1	12/03/08 15:14
2-Methylnaphthalene	ND		480	2.3	µg/Kg-dry	1	12/03/08 15:14
Acenaphthene	ND		480	4.8	µg/Kg-dry	1	12/03/08 15:14
Acenaphthylene	ND		480	5.8	µg/Kg-dry	1	12/03/08 15:14
Anthracene	ND		480	3.4	µg/Kg-dry	1	12/03/08 15:14
Benzo[a]anthracene	ND		480	5.0	µg/Kg-dry	1	12/03/08 15:14
Benzo[a]pyrene	ND		480	14	µg/Kg-dry	1	12/03/08 15:14
Benzo[b]fluoranthene	48 J		480	17	µg/Kg-dry	1	12/03/08 15:14
Benzo[g,h,i]perylene	ND		480	19	µg/Kg-dry	1	12/03/08 15:14
Benzo[k]fluoranthene	ND		480	16	µg/Kg-dry	1	12/03/08 15:14
Chrysene	ND		480	4.1	µg/Kg-dry	1	12/03/08 15:14
Dibenz[a,h]anthracene	ND		480	19	µg/Kg-dry	1	12/03/08 15:14
Fluoranthene	63 J		480	14	µg/Kg-dry	1	12/03/08 15:14
Fluorene	ND		480	4.9	µg/Kg-dry	1	12/03/08 15:14
Indeno[1,2,3-cd]pyrene	ND		480	19	µg/Kg-dry	1	12/03/08 15:14
Naphthalene	ND		480	3.7	µg/Kg-dry	1	12/03/08 15:14
Phenanthrene	ND		480	2.1	µg/Kg-dry	1	12/03/08 15:14
Pyrene	54 J		480	3.3	µg/Kg-dry	1	12/03/08 15:14
Surr: 2,4,6-Tribromophenol	59		20-143	0	%REC	1	12/03/08 15:14
Surr: 2-Fluorobiphenyl	74		46-130	0	%REC	1	12/03/08 15:14
Surr: 2-Fluorophenol	73		22-130	0	%REC	1	12/03/08 15:14
Surr: Nitrobenzene-d5	71		39-130	0	%REC	1	12/03/08 15:14
Surr: Phenol-d5	78		33-130	0	%REC	1	12/03/08 15:14
Surr: Terphenyl-d14	85		36-146	0	%REC	1	12/03/08 15:14

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

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East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering

Project: Ithaca Dredging

W Order: 0811166

Matrix: SOIL

Inst. ID: MS06 40

ColumnID: DB-5MS

Revision: 12/04/08 12:59

Col Type:

Sample Size: 30 g

%Moisture: 31.1

TestCode: 8270S

Lab ID: 0811166-008D

Client Sample ID: Ith-13 (10-14)

Collection Date: 11/21/08 8:40

Date Received: 11/21/08 16:16

PrepDate: 11/24/08 16:01

BatchNo: 8521/R15678

FileID: 1-SAMP-K5220.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8270C		(SW3550B)
2-Chloronaphthalene	ND	480	5.3	µg/Kg-dry	1	12/03/08 15:53	
2-Methylnaphthalene	ND	480	2.3	µg/Kg-dry	1	12/03/08 15:53	
Acenaphthene	ND	480	4.8	µg/Kg-dry	1	12/03/08 15:53	
Acenaphthylene	ND	480	5.8	µg/Kg-dry	1	12/03/08 15:53	
Anthracene	ND	480	3.4	µg/Kg-dry	1	12/03/08 15:53	
Benzo[a]anthracene	ND	480	5.0	µg/Kg-dry	1	12/03/08 15:53	
Benzo[a]pyrene	ND	480	15	µg/Kg-dry	1	12/03/08 15:53	
Benzo[b]fluoranthene	ND	480	17	µg/Kg-dry	1	12/03/08 15:53	
Benzo[g,h,i]perylene	ND	480	19	µg/Kg-dry	1	12/03/08 15:53	
Benzo[k]fluoranthene	ND	480	16	µg/Kg-dry	1	12/03/08 15:53	
Chrysene	ND	480	4.1	µg/Kg-dry	1	12/03/08 15:53	
Dibenz[a,h]anthracene	ND	480	19	µg/Kg-dry	1	12/03/08 15:53	
Fluoranthene	ND	480	15	µg/Kg-dry	1	12/03/08 15:53	
Fluorene	ND	480	4.9	µg/Kg-dry	1	12/03/08 15:53	
Indeno[1,2,3-cd]pyrene	ND	480	19	µg/Kg-dry	1	12/03/08 15:53	
Naphthalene	ND	480	3.7	µg/Kg-dry	1	12/03/08 15:53	
Phenanthrene	ND	480	2.1	µg/Kg-dry	1	12/03/08 15:53	
Pyrene	ND	480	3.3	µg/Kg-dry	1	12/03/08 15:53	
Surr: 2,4,6-Tribromophenol	58	20-143	0	%REC	1	12/03/08 15:53	
Surr: 2-Fluorobiphenyl	75	46-130	0	%REC	1	12/03/08 15:53	
Surr: 2-Fluorophenol	76	22-130	0	%REC	1	12/03/08 15:53	
Surr: Nitrobenzene-d5	73	39-130	0	%REC	1	12/03/08 15:53	
Surr: Phenol-d5	81	33-130	0	%REC	1	12/03/08 15:53	
Surr: Terphenyl-d14	85	36-146	0	%REC	1	12/03/08 15:53	

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

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East Syracuse, NY 13057

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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering

Project: Ithaca Dredging

W Order: 0811166

Matrix: SOIL

Inst. ID: MS06 40

ColumnID: DB-5MS

Revision: 12/04/08 12:59

Col Type:

Sample Size: 30 g

%Moisture: 40.0

TestCode: 8270S

Lab ID: 0811166-009D

Client Sample ID: Ith-1 (1-6)

Collection Date: 11/20/08 16:00

Date Received: 11/21/08 16:16

PrepDate: 11/24/08 16:01

BatchNo: 8521/R15678

FileID: 1-SAMP-K5230.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8270C		(SW3550B)
2-Chloronaphthalene	ND		550	6.1	µg/Kg-dry	1	12/03/08 22:22
2-Methylnaphthalene	ND		550	2.7	µg/Kg-dry	1	12/03/08 22:22
Acenaphthene	ND		550	5.5	µg/Kg-dry	1	12/03/08 22:22
Acenaphthylene	ND		550	6.7	µg/Kg-dry	1	12/03/08 22:22
Anthracene	ND		550	3.9	µg/Kg-dry	1	12/03/08 22:22
Benzo[a]anthracene	170 J		550	5.8	µg/Kg-dry	1	12/03/08 22:22
Benzo[a]pyrene	170 J		550	17	µg/Kg-dry	1	12/03/08 22:22
Benzo[b]fluoranthene	230 J		550	19	µg/Kg-dry	1	12/03/08 22:22
Benzo[g,h,i]perylene	86 J		550	22	µg/Kg-dry	1	12/03/08 22:22
Benzo[k]fluoranthene	110 J		550	19	µg/Kg-dry	1	12/03/08 22:22
Chrysene	190 J		550	4.7	µg/Kg-dry	1	12/03/08 22:22
Dibenz[a,h]anthracene	ND		550	22	µg/Kg-dry	1	12/03/08 22:22
Fluoranthene	370 J		550	17	µg/Kg-dry	1	12/03/08 22:22
Fluorene	ND		550	5.7	µg/Kg-dry	1	12/03/08 22:22
Indeno[1,2,3-cd]pyrene	63 J		550	22	µg/Kg-dry	1	12/03/08 22:22
Naphthalene	ND		550	4.2	µg/Kg-dry	1	12/03/08 22:22
Phenanthrene	170 J		550	2.4	µg/Kg-dry	1	12/03/08 22:22
Pyrene	290 J		550	3.8	µg/Kg-dry	1	12/03/08 22:22
Surr: 2,4,6-Tribromophenol	64		20-143	0	%REC	1	12/03/08 22:22
Surr: 2-Fluorobiphenyl	84		46-130	0	%REC	1	12/03/08 22:22
Surr: 2-Fluorophenol	84		22-130	0	%REC	1	12/03/08 22:22
Surr: Nitrobenzene-d5	81		39-130	0	%REC	1	12/03/08 22:22
Surr: Phenol-d5	88		33-130	0	%REC	1	12/03/08 22:22
Surr: Terphenyl-d14	94		36-146	0	%REC	1	12/03/08 22:22

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering

Project: Ithaca Dredging

W Order: 0811166

Matrix: SOIL

Inst. ID: MS06 40

ColumnID: DB-5MS

Revision: 12/04/08 12:59

Col Type:

Sample Size: 30 g

%Moisture: 41.2

TestCode: 8270S

Lab ID: 0811166-010D

Client Sample ID: *Ith-DUP2*

Collection Date: 11/20/08 0:00

Date Received: 11/21/08 16:16

PrepDate: 11/24/08 16:01

BatchNo: 8521/R15678

FileID: 1-SAMP-K5227.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8270C		(SW3550B)
2-Chloronaphthalene	ND	560	6.2	µg/Kg-dry	1	12/03/08 20:25	
2-Methylnaphthalene	ND	560	2.7	µg/Kg-dry	1	12/03/08 20:25	
Acenaphthene	ND	560	5.6	µg/Kg-dry	1	12/03/08 20:25	
Acenaphthylene	ND	560	6.8	µg/Kg-dry	1	12/03/08 20:25	
Anthracene	ND	560	4.0	µg/Kg-dry	1	12/03/08 20:25	
Benzo[a]anthracene	ND	560	5.9	µg/Kg-dry	1	12/03/08 20:25	
Benzo[a]pyrene	ND	560	17	µg/Kg-dry	1	12/03/08 20:25	
Benzo[b]fluoranthene	ND	560	20	µg/Kg-dry	1	12/03/08 20:25	
Benzo[g,h,i]perylene	ND	560	23	µg/Kg-dry	1	12/03/08 20:25	
Benzo[k]fluoranthene	ND	560	19	µg/Kg-dry	1	12/03/08 20:25	
Chrysene	ND	560	4.8	µg/Kg-dry	1	12/03/08 20:25	
Dibenz[a,h]anthracene	ND	560	23	µg/Kg-dry	1	12/03/08 20:25	
Fluoranthene	ND	560	17	µg/Kg-dry	1	12/03/08 20:25	
Fluorene	ND	560	5.8	µg/Kg-dry	1	12/03/08 20:25	
Indeno[1,2,3-cd]pyrene	ND	560	23	µg/Kg-dry	1	12/03/08 20:25	
Naphthalene	ND	560	4.3	µg/Kg-dry	1	12/03/08 20:25	
Phenanthrene	ND	560	2.5	µg/Kg-dry	1	12/03/08 20:25	
Pyrene	ND	560	3.8	µg/Kg-dry	1	12/03/08 20:25	
Surr: 2,4,6-Tribromophenol	58	20-143	0	%REC	1	12/03/08 20:25	
Surr: 2-Fluorobiphenyl	75	46-130	0	%REC	1	12/03/08 20:25	
Surr: 2-Fluorophenol	75	22-130	0	%REC	1	12/03/08 20:25	
Surr: Nitrobenzene-d5	72	39-130	0	%REC	1	12/03/08 20:25	
Surr: Phenol-d5	79	33-130	0	%REC	1	12/03/08 20:25	
Surr: Terphenyl-d14	84	36-146	0	%REC	1	12/03/08 20:25	

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering

Project: Ithaca Dredging

W Order: 0811166

Matrix: SOIL

Inst. ID: MS06 40

ColumnID: DB-5MS

Revision: 12/04/08 12:59

Col Type:

Sample Size: 30 g

%Moisture: 47.6

TestCode: 8270S

Lab ID: 0811166-011D

Client Sample ID: Ith-2 (1-6)

Collection Date: 11/20/08 16:10

Date Received: 11/21/08 16:16

PrepDate: 11/24/08 16:01

BatchNo: 8521/R15678

FileID: 1-SAMP-K5231.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8270C		(SW3550B)
2-Chloronaphthalene	ND		630	7.0	µg/Kg-dry	1	12/03/08 23:01
2-Methylnaphthalene	ND		630	3.1	µg/Kg-dry	1	12/03/08 23:01
Acenaphthene	ND		630	6.3	µg/Kg-dry	1	12/03/08 23:01
Acenaphthylene	ND		630	7.6	µg/Kg-dry	1	12/03/08 23:01
Anthracene	ND		630	4.4	µg/Kg-dry	1	12/03/08 23:01
Benzo[a]anthracene	150 J		630	6.6	µg/Kg-dry	1	12/03/08 23:01
Benzo[a]pyrene	170 J		630	19	µg/Kg-dry	1	12/03/08 23:01
Benzo[b]fluoranthene	300 J		630	22	µg/Kg-dry	1	12/03/08 23:01
Benzo[g,h,i]perylene	110 J		630	25	µg/Kg-dry	1	12/03/08 23:01
Benzo[k]fluoranthene	140 J		630	21	µg/Kg-dry	1	12/03/08 23:01
Chrysene	210 J		630	5.3	µg/Kg-dry	1	12/03/08 23:01
Dibenz[a,h]anthracene	ND		630	25	µg/Kg-dry	1	12/03/08 23:01
Fluoranthene	410 J		630	19	µg/Kg-dry	1	12/03/08 23:01
Fluorene	ND		630	6.5	µg/Kg-dry	1	12/03/08 23:01
Indeno[1,2,3-cd]pyrene	71 J		630	25	µg/Kg-dry	1	12/03/08 23:01
Naphthalene	ND		630	4.8	µg/Kg-dry	1	12/03/08 23:01
Phenanthrene	180 J		630	2.8	µg/Kg-dry	1	12/03/08 23:01
Pyrene	330 J		630	4.3	µg/Kg-dry	1	12/03/08 23:01
Surr: 2,4,6-Tribromophenol	66		20-143	0	%REC	1	12/03/08 23:01
Surr: 2-Fluorobiphenyl	82		46-130	0	%REC	1	12/03/08 23:01
Surr: 2-Fluorophenol	84		22-130	0	%REC	1	12/03/08 23:01
Surr: Nitrobenzene-d5	80		39-130	0	%REC	1	12/03/08 23:01
Surr: Phenol-d5	88		33-130	0	%REC	1	12/03/08 23:01
Surr: Terphenyl-d14	96		36-146	0	%REC	1	12/03/08 23:01

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

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East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering
Project: Ithaca Dredging
W Order: 0811166
Matrix: SOIL
Inst. ID: MS06 40
ColumnID: DB-5MS
Revision: 12/04/08 14:38
Col Type:

Sample Size: 30 g
%Moisture: 48.3
TestCode: 8270S

Lab ID: 0811166-012D
Client Sample ID: *Ith-3 (1-6)*
Collection Date: 11/20/08 16:15
Date Received: 11/21/08 16:16
PrepDate: 11/24/08 16:01
BatchNo: 8521/R15681
FileID: 1-SAMP-K5235.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8270C		(SW3550B)
2-Chloronaphthalene	ND		640	7.1	µg/Kg-dry	1	12/04/08 13:51
2-Methylnaphthalene	ND		640	3.1	µg/Kg-dry	1	12/04/08 13:51
Acenaphthene	ND		640	6.4	µg/Kg-dry	1	12/04/08 13:51
Acenaphthylene	ND		640	7.7	µg/Kg-dry	1	12/04/08 13:51
Anthracene	ND		640	4.5	µg/Kg-dry	1	12/04/08 13:51
Benzo[a]anthracene	240 J		640	6.7	µg/Kg-dry	1	12/04/08 13:51
Benzo[a]pyrene	280 J		640	19	µg/Kg-dry	1	12/04/08 13:51
Benzo[b]fluoranthene	550 J		640	22	µg/Kg-dry	1	12/04/08 13:51
Benzo[g,h,i]perylene	170 J		640	26	µg/Kg-dry	1	12/04/08 13:51
Benzo[k]fluoranthene	190 J		640	22	µg/Kg-dry	1	12/04/08 13:51
Chrysene	350 J		640	5.4	µg/Kg-dry	1	12/04/08 13:51
Dibenz[a,h]anthracene	ND		640	26	µg/Kg-dry	1	12/04/08 13:51
Fluoranthene	700		640	19	µg/Kg-dry	1	12/04/08 13:51
Fluorene	ND		640	6.6	µg/Kg-dry	1	12/04/08 13:51
Indeno[1,2,3-cd]pyrene	100 J		640	26	µg/Kg-dry	1	12/04/08 13:51
Naphthalene	ND		640	4.9	µg/Kg-dry	1	12/04/08 13:51
Phenanthrene	280 J		640	2.8	µg/Kg-dry	1	12/04/08 13:51
Pyrene	630 J		640	4.4	µg/Kg-dry	1	12/04/08 13:51
Surr: 2,4,6-Tribromophenol	72		20-143	0	%REC	1	12/04/08 13:51
Surr: 2-Fluorobiphenyl	83		46-130	0	%REC	1	12/04/08 13:51
Surr: 2-Fluorophenol	87		22-130	0	%REC	1	12/04/08 13:51
Surr: Nitrobenzene-d5	86		39-130	0	%REC	1	12/04/08 13:51
Surr: Phenol-d5	98		33-130	0	%REC	1	12/04/08 13:51
Surr: Terphenyl-d14	105		36-146	0	%REC	1	12/04/08 13:51

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

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East Syracuse, NY 13057

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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering
 Project: Ithaca Dredging
 W Order: 0811166
 Matrix: SOIL
 Inst. ID: MS06 40
 ColumnID: DB-5MS
 Revision: 12/04/08 12:59
 Col Type:

Sample Size: 30 g
 %Moisture: 37.0
 TestCode: 8270S

Lab ID: 0811166-013D
 Client Sample ID: *Ith-4 (1-6)*
 Collection Date: 11/20/08 16:20
 Date Received: 11/21/08 16:16
 PrepDate: 11/24/08 16:01
 BatchNo: 8521/R15678
 FileID: 1-SAMP-K5228.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS							
					SW8270C		(SW3550B)
2-Chloronaphthalene	ND		520	5.8	µg/Kg-dry	1	12/03/08 21:04
2-Methylnaphthalene	ND		520	2.5	µg/Kg-dry	1	12/03/08 21:04
Acenaphthene	ND		520	5.3	µg/Kg-dry	1	12/03/08 21:04
Acenaphthylene	ND		520	6.3	µg/Kg-dry	1	12/03/08 21:04
Anthracene	ND		520	3.7	µg/Kg-dry	1	12/03/08 21:04
Benzo[a]anthracene	83 J		520	5.5	µg/Kg-dry	1	12/03/08 21:04
Benzo[a]pyrene	91 J		520	16	µg/Kg-dry	1	12/03/08 21:04
Benzo[b]fluoranthene	140 J		520	18	µg/Kg-dry	1	12/03/08 21:04
Benzo[g,h,i]perylene	58 J		520	21	µg/Kg-dry	1	12/03/08 21:04
Benzo[k]fluoranthene	60 J		520	18	µg/Kg-dry	1	12/03/08 21:04
Chrysene	99 J		520	4.4	µg/Kg-dry	1	12/03/08 21:04
Dibenz[a,h]anthracene	ND		520	21	µg/Kg-dry	1	12/03/08 21:04
Fluoranthene	210 J		520	16	µg/Kg-dry	1	12/03/08 21:04
Fluorene	ND		520	5.4	µg/Kg-dry	1	12/03/08 21:04
Indeno[1,2,3-cd]pyrene	ND		520	21	µg/Kg-dry	1	12/03/08 21:04
Naphthalene	ND		520	4.0	µg/Kg-dry	1	12/03/08 21:04
Phenanthrene	91 J		520	2.3	µg/Kg-dry	1	12/03/08 21:04
Pyrene	160 J		520	3.6	µg/Kg-dry	1	12/03/08 21:04
Surr: 2,4,6-Tribromophenol	67		20-143	0	%REC	1	12/03/08 21:04
Surr: 2-Fluorobiphenyl	80		46-130	0	%REC	1	12/03/08 21:04
Surr: 2-Fluorophenol	79		22-130	0	%REC	1	12/03/08 21:04
Surr: Nitrobenzene-d5	77		39-130	0	%REC	1	12/03/08 21:04
Surr: Phenol-d5	84		33-130	0	%REC	1	12/03/08 21:04
Surr: Terphenyl-d14	96		36-146	0	%REC	1	12/03/08 21:04

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Value exceeds the instrument calibration range
 J Analyte detected below the PQL
 P Prim./Conf. column %D or RPD exceeds limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Practical Quantitation Limit (PQL)
 S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering
Project: Ithaca Dredging
W Order: 0811166
Matrix: SOIL
Inst. ID: MS06 40
ColumnID: DB-5MS
Revision: 12/04/08 12:59
Col Type:

Sample Size: 30 g
%Moisture: 39.7
TestCode: 8270S

Lab ID: 0811166-014D
Client Sample ID: *Ith-6 (1-6)*
Collection Date: 11/20/08 16:25
Date Received: 11/21/08 16:16
PrepDate: 11/24/08 16:01
BatchNo: 8521/R15678
FileID: 1-SAMP-K5229.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8270C		(SW3550B)
2-Chloronaphthalene	ND		550	6.1	µg/Kg-dry	1	12/03/08 21:43
2-Methylnaphthalene	ND		550	2.7	µg/Kg-dry	1	12/03/08 21:43
Acenaphthene	ND		550	5.5	µg/Kg-dry	1	12/03/08 21:43
Acenaphthylene	ND		550	6.6	µg/Kg-dry	1	12/03/08 21:43
Anthracene	ND		550	3.9	µg/Kg-dry	1	12/03/08 21:43
Benzo[a]anthracene	88 J		550	5.7	µg/Kg-dry	1	12/03/08 21:43
Benzo[a]pyrene	98 J		550	17	µg/Kg-dry	1	12/03/08 21:43
Benzo[b]fluoranthene	160 J		550	19	µg/Kg-dry	1	12/03/08 21:43
Benzo[g,h,i]perylene	64 J		550	22	µg/Kg-dry	1	12/03/08 21:43
Benzo[k]fluoranthene	71 J		550	18	µg/Kg-dry	1	12/03/08 21:43
Chrysene	120 J		550	4.6	µg/Kg-dry	1	12/03/08 21:43
Dibenz[a,h]anthracene	ND		550	22	µg/Kg-dry	1	12/03/08 21:43
Fluoranthene	220 J		550	17	µg/Kg-dry	1	12/03/08 21:43
Fluorene	ND		550	5.7	µg/Kg-dry	1	12/03/08 21:43
Indeno[1,2,3-cd]pyrene	ND		550	22	µg/Kg-dry	1	12/03/08 21:43
Naphthalene	ND		550	4.2	µg/Kg-dry	1	12/03/08 21:43
Phenanthrene	92 J		550	2.4	µg/Kg-dry	1	12/03/08 21:43
Pyrene	180 J		550	3.7	µg/Kg-dry	1	12/03/08 21:43
Surr: 2,4,6-Tribromophenol	65		20-143	0	%REC	1	12/03/08 21:43
Surr: 2-Fluorobiphenyl	81		46-130	0	%REC	1	12/03/08 21:43
Surr: 2-Fluorophenol	80		22-130	0	%REC	1	12/03/08 21:43
Surr: Nitrobenzene-d5	76		39-130	0	%REC	1	12/03/08 21:43
Surr: Phenol-d5	87		33-130	0	%REC	1	12/03/08 21:43
Surr: Terphenyl-d14	95		36-146	0	%REC	1	12/03/08 21:43

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811131-001D
Project: Ithaca Dredging	Client Sample ID: <i>Ith-3 (6-12)</i>
W Order: 0811131	Collection Date: 11/17/08 14:50
Matrix: SOIL	Date Received: 11/18/08 16:28
Inst. ID: GCGT 57G	PrepDate: 11/21/08 10:57
ColumnID: RtxCLP	BatchNo: 8505/R15901
Revision: 12/22/08 15:26	FileID: 1-SAMP-E:\Gtdec08\G121912.r
Col Type: Primary	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES BY GC/ECD					SW8081A		(SW3550B)
4,4'-DDD	ND		0.0022	0.00023	mg/Kg-dry	1	12/19/08 15:05
4,4'-DDE	ND		0.0022	0.00025	mg/Kg-dry	1	12/19/08 15:05
4,4'-DDT	ND		0.0022	0.00029	mg/Kg-dry	1	12/19/08 15:05
alpha-Chlordane	ND		0.0011	0.00023	mg/Kg-dry	1	12/19/08 15:05
Dieldrin	ND		0.0022	0.00028	mg/Kg-dry	1	12/19/08 15:05
gamma-Chlordane	ND		0.0011	0.00028	mg/Kg-dry	1	12/19/08 15:05
Surr: Tetrachloro-m-xylene	86		37-125	0	%REC	1	12/19/08 15:05
Surr: Decachlorobiphenyl	52		25-145	0	%REC	1	12/19/08 15:05

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811131-001D
Project: Ithaca Dredging	Client Sample ID: <i>Ith-3 (6-12)</i>
W Order: 0811131	Collection Date: 11/17/08 14:50
Matrix: SOIL	Date Received: 11/18/08 16:28
Inst. ID: GCGT 57H	Sample Size: 30 g
ColumnID: RtxCLP2	%Moisture: 24.7
Revision: 12/22/08 15:33	TestCode: 8081S
Col Type: Confirm	PrepDate: 11/21/08 10:57
	BatchNo: 8505/R15903
	FileID: 1-SAMP-E:\Gtdec08\H121912.r

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES BY GC/ECD					SW8081A		(SW3550B)
4,4'-DDD	ND		0.0022	0.00023	mg/Kg-dry	1	12/19/08 15:05
4,4'-DDE	ND		0.0022	0.00025	mg/Kg-dry	1	12/19/08 15:05
4,4'-DDT	ND		0.0022	0.00029	mg/Kg-dry	1	12/19/08 15:05
alpha-Chlordane	ND		0.0011	0.00023	mg/Kg-dry	1	12/19/08 15:05
Dieldrin	ND		0.0022	0.00028	mg/Kg-dry	1	12/19/08 15:05
gamma-Chlordane	ND		0.0011	0.00028	mg/Kg-dry	1	12/19/08 15:05
Surr: Tetrachloro-m-xylene	91		37-125	0	%REC	1	12/19/08 15:05
Surr: Decachlorobiphenyl	53		25-145	0	%REC	1	12/19/08 15:05

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811131-002D
Project: Ithaca Dredging	Client Sample ID: <i>Ith-4 (6-12)</i>
W Order: 0811131	Collection Date: 11/18/08 9:20
Matrix: SOIL	Date Received: 11/18/08 16:28
Inst. ID: GCGT 57G	PrepDate: 11/21/08 10:57
ColumnID: RtxCLP	BatchNo: 8505/R15901
Revision: 12/22/08 15:26	FileID: 1-SAMP-E:\Gtdec08\G121913.r
Col Type: Primary	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES BY GC/ECD					SW8081A		(SW3550B)
4,4'-DDD	0.0012	J	0.0023	0.00025	mg/Kg-dry	1	12/19/08 15:29
4,4'-DDE	ND		0.0023	0.00026	mg/Kg-dry	1	12/19/08 15:29
4,4'-DDT	ND		0.0023	0.00030	mg/Kg-dry	1	12/19/08 15:29
alpha-Chlordane	ND		0.0012	0.00025	mg/Kg-dry	1	12/19/08 15:29
Dieldrin	ND		0.0023	0.00029	mg/Kg-dry	1	12/19/08 15:29
gamma-Chlordane	ND		0.0012	0.00029	mg/Kg-dry	1	12/19/08 15:29
Surr: Tetrachloro-m-xylene	66		37-125	0	%REC	1	12/19/08 15:29
Surr: Decachlorobiphenyl	37		25-145	0	%REC	1	12/19/08 15:29

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

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(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811131-002D
Project: Ithaca Dredging	Client Sample ID: <i>Ith-4 (6-12)</i>
W Order: 0811131	Collection Date: 11/18/08 9:20
Matrix: SOIL	Date Received: 11/18/08 16:28
Inst. ID: GCGT 57H	Sample Size: 30 g
ColumnID: RtrCLP2	%Moisture: 28.6
Revision: 12/22/08 15:33	TestCode: 8081S
Col Type: Confirm	PrepDate: 11/21/08 10:57
	BatchNo: 8505/R15903
	FileID: 1-SAMP-E\Gtdec08\H121913.r

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES BY GC/ECD					SW8081A		(SW3550B)
4,4'-DDD	0.0014	J	0.0023	0.00025	mg/Kg-dry	1	12/19/08 15:29
4,4'-DDE	ND		0.0023	0.00026	mg/Kg-dry	1	12/19/08 15:29
4,4'-DDT	ND		0.0023	0.00030	mg/Kg-dry	1	12/19/08 15:29
alpha-Chlordane	ND		0.0012	0.00025	mg/Kg-dry	1	12/19/08 15:29
Dieldrin	ND		0.0023	0.00029	mg/Kg-dry	1	12/19/08 15:29
gamma-Chlordane	ND		0.0012	0.00029	mg/Kg-dry	1	12/19/08 15:29
Surr: Tetrachloro-m-xylene	71		37-125	0	%REC	1	12/19/08 15:29
Surr: Decachlorobiphenyl	51		25-145	0	%REC	1	12/19/08 15:29

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811131-003D
Project: Ithaca Dredging	Client Sample ID: <i>Ith-2 (6-10)</i>
W Order: 0811131	Collection Date: 11/18/08 10:10
Matrix: SOIL	Date Received: 11/18/08 16:28
Inst. ID: GCGT 57G	PrepDate: 11/21/08 10:57
ColumnID: RtxCLP	BatchNo: 8505/R15901
Revision: 12/22/08 15:26	FileID: 1-SAMP-E:\Gtdec08\G121914.r
Col Type: Primary	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES BY GC/ECD					SW8081A		(SW3550B)
4,4'-DDD	ND		0.0024	0.00026	mg/Kg-dry	1	12/19/08 15:53
4,4'-DDE	ND		0.0024	0.00027	mg/Kg-dry	1	12/19/08 15:53
4,4'-DDT	ND		0.0024	0.00032	mg/Kg-dry	1	12/19/08 15:53
alpha-Chlordane	ND		0.0012	0.00026	mg/Kg-dry	1	12/19/08 15:53
Dieldrin	ND		0.0024	0.00031	mg/Kg-dry	1	12/19/08 15:53
gamma-Chlordane	ND		0.0012	0.00031	mg/Kg-dry	1	12/19/08 15:53
Surr: Tetrachloro-m-xylene	67		37-125	0	%REC	1	12/19/08 15:53
Surr: Decachlorobiphenyl	30		25-145	0	%REC	1	12/19/08 15:53

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811131-003D
Project: Ithaca Dredging	Client Sample ID: <i>Ith-2 (6-10)</i>
W Order: 0811131	Collection Date: 11/18/08 10:10
Matrix: SOIL	Date Received: 11/18/08 16:28
Inst. ID: GCGT 57H	PrepDate: 11/21/08 10:57
ColumnID: RtxCLP2	BatchNo: 8505/R15903
Revision: 12/22/08 15:33	FileID: 1-SAMP-E:\Gtdec08\H121914.r
Col Type: Confirm	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES BY GC/ECD					SW8081A		(SW3550B)
4,4'-DDD	ND		0.0024	0.00026	mg/Kg-dry	1	12/19/08 15:53
4,4'-DDE	ND		0.0024	0.00027	mg/Kg-dry	1	12/19/08 15:53
4,4'-DDT	ND		0.0024	0.00032	mg/Kg-dry	1	12/19/08 15:53
alpha-Chlordane	ND		0.0012	0.00026	mg/Kg-dry	1	12/19/08 15:53
Dieldrin	ND		0.0024	0.00031	mg/Kg-dry	1	12/19/08 15:53
gamma-Chlordane	ND		0.0012	0.00031	mg/Kg-dry	1	12/19/08 15:53
Surr: Tetrachloro-m-xylene	73		37-125	0	%REC	1	12/19/08 15:53
Surr: Decachlorobiphenyl	73		25-145	0	%REC	1	12/19/08 15:53

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811131-004D
Project: Ithaca Dredging	Client Sample ID: <i>Ith-2 (10-14)</i>
W Order: 0811131	Collection Date: 11/18/08 10:20
Matrix: SOIL	Date Received: 11/18/08 16:28
Inst. ID: GCGT 57G	PrepDate: 11/21/08 10:57
ColumnID: RtxCLP	BatchNo: 8505/R15901
Revision: 12/22/08 15:26	FileID: 1-SAMP-E:\Gtdec08\G121915.r
Col Type: Primary	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES BY GC/ECD					SW8081A		(SW3550B)
4,4'-DDD	ND		0.0025	0.00027	mg/Kg-dry 1		12/19/08 16:17
4,4'-DDE	ND		0.0025	0.00028	mg/Kg-dry 1		12/19/08 16:17
4,4'-DDT	ND		0.0025	0.00033	mg/Kg-dry 1		12/19/08 16:17
alpha-Chlordane	ND		0.0013	0.00027	mg/Kg-dry 1		12/19/08 16:17
Dieldrin	ND		0.0025	0.00032	mg/Kg-dry 1		12/19/08 16:17
gamma-Chlordane	ND		0.0013	0.00032	mg/Kg-dry 1		12/19/08 16:17
Surr: Tetrachloro-m-xylene	44		37-125	0	%REC 1		12/19/08 16:17
Surr: Decachlorobiphenyl	27		25-145	0	%REC 1		12/19/08 16:17

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811131-004D
Project: Ithaca Dredging	Client Sample ID: <i>Ith-2 (10-14)</i>
W Order: 0811131	Collection Date: 11/18/08 10:20
Matrix: SOIL	Date Received: 11/18/08 16:28
Inst. ID: GCGT 57H	PrepDate: 11/21/08 10:57
ColumnID: RtxCLP2	BatchNo: 8505/R15903
Revision: 12/22/08 15:33	FileID: 1-SAMP-E:\Gtdec08\H121915.r
Col Type: Confirm	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES BY GC/ECD					SW8081A		(SW3550B)
4,4'-DDD	ND		0.0025	0.00027	mg/Kg-dry	1	12/19/08 16:17
4,4'-DDE	ND		0.0025	0.00028	mg/Kg-dry	1	12/19/08 16:17
4,4'-DDT	ND		0.0025	0.00033	mg/Kg-dry	1	12/19/08 16:17
alpha-Chlordane	ND		0.0013	0.00027	mg/Kg-dry	1	12/19/08 16:17
Dieldrin	ND		0.0025	0.00032	mg/Kg-dry	1	12/19/08 16:17
gamma-Chlordane	ND		0.0013	0.00032	mg/Kg-dry	1	12/19/08 16:17
Surr: Tetrachloro-m-xylene	56		37-125	0	%REC	1	12/19/08 16:17
Surr: Decachlorobiphenyl	40		25-145	0	%REC	1	12/19/08 16:17

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

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East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811131-005D
Project: Ithaca Dredging	Client Sample ID: <i>Ith-6 (6-10)</i>
W Order: 0811131	Collection Date: 11/18/08 14:10
Matrix: SOIL	Date Received: 11/18/08 16:28
Inst. ID: GCGT 57G	Sample Size: 30 g
ColumnID: RtxCLP	%Moisture: 30.4
Revision: 12/22/08 15:26	TestCode: 8081S
Col Type: Primary	PrepDate: 11/21/08 10:57
	BatchNo: 8505/R15901
	FileID: 1-SAMP-E:\Gtdec08\G121916.r

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES BY GC/ECD					SW8081A		(SW3550B)
4,4'-DDD	ND		0.0024	0.00025	mg/Kg-dry	1	12/19/08 16:41
4,4'-DDE	ND		0.0024	0.00027	mg/Kg-dry	1	12/19/08 16:41
4,4'-DDT	ND		0.0024	0.00031	mg/Kg-dry	1	12/19/08 16:41
alpha-Chlordane	ND		0.0012	0.00025	mg/Kg-dry	1	12/19/08 16:41
Dieldrin	ND		0.0024	0.00030	mg/Kg-dry	1	12/19/08 16:41
gamma-Chlordane	ND		0.0012	0.00030	mg/Kg-dry	1	12/19/08 16:41
Surr: Tetrachloro-m-xylene	55		37-125	0	%REC	1	12/19/08 16:41
Surr: Decachlorobiphenyl	36		25-145	0	%REC	1	12/19/08 16:41

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811131-005D
Project: Ithaca Dredging	Client Sample ID: <i>Ith-6 (6-10)</i>
W Order: 0811131	Collection Date: 11/18/08 14:10
Matrix: SOIL	Date Received: 11/18/08 16:28
Inst. ID: GCGT 57H	PrepDate: 11/21/08 10:57
ColumnID: RtxCLP2	BatchNo: 8505/R15903
Revision: 12/22/08 15:33	FileID: 1-SAMP-E:\Gtdec08\H121916.r
Col Type: Confirm	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES BY GC/ECD					SW8081A		(SW3550B)
4,4'-DDD	ND		0.0024	0.00025	mg/Kg-dry 1		12/19/08 16:41
4,4'-DDE	ND		0.0024	0.00027	mg/Kg-dry 1		12/19/08 16:41
4,4'-DDT	ND		0.0024	0.00031	mg/Kg-dry 1		12/19/08 16:41
alpha-Chlordane	ND		0.0012	0.00025	mg/Kg-dry 1		12/19/08 16:41
Dieldrin	ND		0.0024	0.00030	mg/Kg-dry 1		12/19/08 16:41
gamma-Chlordane	ND		0.0012	0.00030	mg/Kg-dry 1		12/19/08 16:41
Surr: Tetrachloro-m-xylene	79		37-125	0	%REC 1		12/19/08 16:41
Surr: Decachlorobiphenyl	45		25-145	0	%REC 1		12/19/08 16:41

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811131-006D
Project: Ithaca Dredging	Client Sample ID: <i>Ith-6 (10-14)</i>
W Order: 0811131	Collection Date: 11/18/08 14:20
Matrix: SOIL	Date Received: 11/18/08 16:28
Inst. ID: GCGT 57G	PrepDate: 11/21/08 10:57
ColumnID: RtxCLP	BatchNo: 8505/R15901
Revision: 12/22/08 15:26	FileID: 1-SAMP-E:\Gtdec08\G121917.r
Col Type: Primary	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES BY GC/ECD					SW8081A		(SW3550B)
4,4'-DDD	ND		0.0025	0.00027	mg/Kg-dry	1	12/19/08 17:05
4,4'-DDE	ND		0.0025	0.00028	mg/Kg-dry	1	12/19/08 17:05
4,4'-DDT	ND		0.0025	0.00033	mg/Kg-dry	1	12/19/08 17:05
alpha-Chlordane	ND		0.0013	0.00027	mg/Kg-dry	1	12/19/08 17:05
Dieldrin	ND		0.0025	0.00032	mg/Kg-dry	1	12/19/08 17:05
gamma-Chlordane	ND		0.0013	0.00032	mg/Kg-dry	1	12/19/08 17:05
Surr: Tetrachloro-m-xylene	64		37-125	0	%REC	1	12/19/08 17:05
Surr: Decachlorobiphenyl	38		25-145	0	%REC	1	12/19/08 17:05

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering
Project: Ithaca Dredging
W Order: 0811131
Matrix: SOIL
Inst. ID: GCGT 57H
ColumnID: RtxCLP2
Revision: 12/22/08 15:33
Col Type: Confirm

Sample Size: 30 g
%Moisture: 34.7
TestCode: 8081S

Lab ID: 0811131-006D
Client Sample ID: *Ith-6 (10-14)*
Collection Date: 11/18/08 14:20
Date Received: 11/18/08 16:28
PrepDate: 11/21/08 10:57
BatchNo: 8505/R15903
FileID: 1-SAMP-E:\Gtdec08\H121917.r

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES BY GC/ECD					SW8081A		(SW3550B)
4,4'-DDD	ND		0.0025	0.00027	mg/Kg-dry	1	12/19/08 17:05
4,4'-DDE	ND		0.0025	0.00028	mg/Kg-dry	1	12/19/08 17:05
4,4'-DDT	ND		0.0025	0.00033	mg/Kg-dry	1	12/19/08 17:05
alpha-Chlordane	ND		0.0013	0.00027	mg/Kg-dry	1	12/19/08 17:05
Dieldrin	ND		0.0025	0.00032	mg/Kg-dry	1	12/19/08 17:05
gamma-Chlordane	ND		0.0013	0.00032	mg/Kg-dry	1	12/19/08 17:05
Surr: Tetrachloro-m-xylene	85		37-125	0	%REC	1	12/19/08 17:05
Surr: Decachlorobiphenyl	54		25-145	0	%REC	1	12/19/08 17:05

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811142-001D
Project: Ithaca Dredging	Client Sample ID: <i>Ith-8 (2-10)</i>
W Order: 0811142	Collection Date: 11/19/08 14:30
Matrix: SOIL	Date Received: 11/20/08 9:25
Inst. ID: GCGT 57G	PrepDate: 11/21/08 10:57
ColumnID: RtxCLP	BatchNo: 8505/R15901
Revision: 12/22/08 15:26	FileID: 1-SAMP-E:\Gtdec08\G121918.r
Col Type: Primary	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES BY GC/ECD					SW8081A		(SW3550B)
4,4'-DDD	0.0020	J	0.0027	0.00028	mg/Kg-dry	1	12/19/08 17:29
4,4'-DDE	0.0028		0.0027	0.00030	mg/Kg-dry	1	12/19/08 17:29
4,4'-DDT	ND		0.0027	0.00035	mg/Kg-dry	1	12/19/08 17:29
alpha-Chlordane	ND		0.0014	0.00028	mg/Kg-dry	1	12/19/08 17:29
Dieldrin	ND		0.0027	0.00034	mg/Kg-dry	1	12/19/08 17:29
gamma-Chlordane	ND		0.0014	0.00034	mg/Kg-dry	1	12/19/08 17:29
Surr: Tetrachloro-m-xylene	61		37-125	0	%REC	1	12/19/08 17:29
Surr: Decachlorobiphenyl	41		25-145	0	%REC	1	12/19/08 17:29

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811142-001D
Project: Ithaca Dredging	Client Sample ID: <i>Ith-8 (2-10)</i>
W Order: 0811142	Collection Date: 11/19/08 14:30
Matrix: SOIL	Date Received: 11/20/08 9:25
Inst. ID: GCGT 57H	Sample Size: 30 g
ColumnID: RtxCLP2	%Moisture: 38.2
Revision: 12/22/08 15:33	TestCode: 8081S
Col Type: Confirm	BatchNo: 8505/R15903
	FileID: 1-SAMP-E:\Gtdec08\H121918.r

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES BY GC/ECD					SW8081A		(SW3550B)
4,4'-DDD	0.0022	J	0.0027	0.00028	mg/Kg-dry	1	12/19/08 17:29
4,4'-DDE	0.0030		0.0027	0.00030	mg/Kg-dry	1	12/19/08 17:29
4,4'-DDT	ND		0.0027	0.00035	mg/Kg-dry	1	12/19/08 17:29
alpha-Chlordane	ND		0.0014	0.00028	mg/Kg-dry	1	12/19/08 17:29
Dieldrin	ND		0.0027	0.00034	mg/Kg-dry	1	12/19/08 17:29
gamma-Chlordane	ND		0.0014	0.00034	mg/Kg-dry	1	12/19/08 17:29
Surr: Tetrachloro-m-xylene	68		37-125	0	%REC	1	12/19/08 17:29
Surr: Decachlorobiphenyl	65		25-145	0	%REC	1	12/19/08 17:29

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811142-002D
Project: Ithaca Dredging	Client Sample ID: <i>Ith-8 (10-14)</i>
W Order: 0811142	Collection Date: 11/19/08 14:45
Matrix: SOIL	Date Received: 11/20/08 9:25
Inst. ID: GCGT 57G	PrepDate: 11/21/08 10:57
ColumnID: RtxCLP	BatchNo: 8505/R15901
Revision: 12/22/08 15:26	FileID: 1-SAMP-E:\Gtdec08\G121919.r
Col Type: Primary	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES BY GC/ECD					SW8081A		(SW3550E)
4,4'-DDD	ND		0.0024	0.00025	mg/Kg-dry	1	12/19/08 17:53
4,4'-DDE	ND		0.0024	0.00027	mg/Kg-dry	1	12/19/08 17:53
4,4'-DDT	ND		0.0024	0.00031	mg/Kg-dry	1	12/19/08 17:53
alpha-Chlordane	ND		0.0012	0.00025	mg/Kg-dry	1	12/19/08 17:53
Dieldrin	ND		0.0024	0.00031	mg/Kg-dry	1	12/19/08 17:53
gamma-Chlordane	ND		0.0012	0.00031	mg/Kg-dry	1	12/19/08 17:53
Surr: Tetrachloro-m-xylene	46		37-125	0	%REC	1	12/19/08 17:53
Surr: Decachlorobiphenyl	28		25-145	0	%REC	1	12/19/08 17:53

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811142-002D
Project: Ithaca Dredging	Client Sample ID: <i>Ith-8 (10-14)</i>
W Order: 0811142	Collection Date: 11/19/08 14:45
Matrix: SOIL	Date Received: 11/20/08 9:25
Inst. ID: GCGT 57H	PrepDate: 11/21/08 10:57
ColumnID: RtxCLP2	BatchNo: 8505/R15903
Revision: 12/22/08 15:33	FileID: 1-SAMP-E:\Gtdec08\H121919.r
Col Type: Confirm	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES BY GC/ECD					SW8081A		(SW3550B)
4,4'-DDD	ND		0.0024	0.00025	mg/Kg-dry	1	12/19/08 17:53
4,4'-DDE	ND		0.0024	0.00027	mg/Kg-dry	1	12/19/08 17:53
4,4'-DDT	ND		0.0024	0.00031	mg/Kg-dry	1	12/19/08 17:53
alpha-Chlordane	ND		0.0012	0.00025	mg/Kg-dry	1	12/19/08 17:53
Dieldrin	ND		0.0024	0.00031	mg/Kg-dry	1	12/19/08 17:53
gamma-Chlordane	ND		0.0012	0.00031	mg/Kg-dry	1	12/19/08 17:53
Surr: Tetrachloro-m-xylene	60		37-125	0	%REC	1	12/19/08 17:53
Surr: Decachlorobiphenyl	35		25-145	0	%REC	1	12/19/08 17:53

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811142-003D
Project: Ithaca Dredging	Client Sample ID: <i>Ith-7 (1-14)</i>
W Order: 0811142	Collection Date: 11/19/08 13:50
Matrix: SOIL	Date Received: 11/20/08 9:25
Inst. ID: GCGT 57G	PrepDate: 11/21/08 10:57
ColumnID: RtxCLP	BatchNo: 8505/R15901
Revision: 12/22/08 15:26	FileID: I-SAMP-E:\Gtdec08\G121920.r
Col Type: Primary	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES BY GC/ECD					SW8081A		(SW3550B)
4,4'-DDD	0.0069	P	0.0024	0.00025	mg/Kg-dry	1	12/19/08 18:17
4,4'-DDE	0.0025		0.0024	0.00027	mg/Kg-dry	1	12/19/08 18:17
4,4'-DDT	0.0024	P	0.0024	0.00031	mg/Kg-dry	1	12/19/08 18:17
alpha-Chlordane	ND		0.0012	0.00025	mg/Kg-dry	1	12/19/08 18:17
Dieldrin	0.00064	JP	0.0024	0.00030	mg/Kg-dry	1	12/19/08 18:17
gamma-Chlordane	ND		0.0012	0.00030	mg/Kg-dry	1	12/19/08 18:17
Surr: Tetrachloro-m-xylene	61		37-125	0	%REC	1	12/19/08 18:17
Surr: Decachlorobiphenyl	40		25-145	0	%REC	1	12/19/08 18:17

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering
Project: Ithaca Dredging
W Order: 0811142
Matrix: SOIL
Inst. ID: GCGT 57H **Sample Size:** 30 g
ColumnID: RtxCLP2 **%Moisture:** 30.2
Revision: 12/22/08 15:33 **TestCode:** 8081S
Col Type: Confirm

Lab ID: 0811142-003D
Client Sample ID: *Ith-7 (1-14)*
Collection Date: 11/19/08 13:50
Date Received: 11/20/08 9:25
PrepDate: 11/21/08 10:57
BatchNo: 8505/R15903
FileID: 1-SAMP-E:AGtdec08\H121920.r

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES BY GC/ECD					SW8081A		(SW3550B)
4,4'-DDD	0.010	P	0.0024	0.00025	mg/Kg-dry	1	12/19/08 18:17
4,4'-DDE	0.0025		0.0024	0.00027	mg/Kg-dry	1	12/19/08 18:17
4,4'-DDT	0.0050	P	0.0024	0.00031	mg/Kg-dry	1	12/19/08 18:17
alpha-Chlordane	ND		0.0012	0.00025	mg/Kg-dry	1	12/19/08 18:17
Dieldrin	0.0035	P	0.0024	0.00030	mg/Kg-dry	1	12/19/08 18:17
gamma-Chlordane	ND		0.0012	0.00030	mg/Kg-dry	1	12/19/08 18:17
Surr: Tetrachloro-m-xylene	70		37-125	0	%REC	1	12/19/08 18:17
Surr: Decachlorobiphenyl	81		25-145	0	%REC	1	12/19/08 18:17

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811142-004D
Project: Ithaca Dredging	Client Sample ID: <i>Ith-5 (4-10)</i>
W Order: 0811142	Collection Date: 11/19/08 12:40
Matrix: SOIL	Date Received: 11/20/08 9:25
Inst. ID: GCGT 57G	PrepDate: 11/21/08 10:57
ColumnID: RtxCLP	BatchNo: 8505/R15901
Revision: 12/22/08 15:26	FileID: 1-SAMP-E:\Gtdec08\G121921.r
Col Type: Primary	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES BY GC/ECD					SW8081A		(SW3550B)
4,4'-DDD	0.0015	J	0.0025	0.00027	mg/Kg-dry	1	12/19/08 18:41
4,4'-DDE	ND		0.0025	0.00028	mg/Kg-dry	1	12/19/08 18:41
4,4'-DDT	0.0014	JP	0.0025	0.00033	mg/Kg-dry	1	12/19/08 18:41
alpha-Chlordane	ND		0.0013	0.00027	mg/Kg-dry	1	12/19/08 18:41
Dieldrin	ND		0.0025	0.00032	mg/Kg-dry	1	12/19/08 18:41
gamma-Chlordane	ND		0.0013	0.00032	mg/Kg-dry	1	12/19/08 18:41
Surr: Tetrachloro-m-xylene	48		37-125	0	%REC	1	12/19/08 18:41
Surr: Decachlorobiphenyl	34		25-145	0	%REC	1	12/19/08 18:41

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811142-004D
Project: Ithaca Dredging	Client Sample ID: <i>Ith-5 (4-10)</i>
W Order: 0811142	Collection Date: 11/19/08 12:40
Matrix: SOIL	Date Received: 11/20/08 9:25
Inst. ID: GCGT 57H	PrepDate: 11/21/08 10:57
ColumnID: RtxCLP2	BatchNo: 8505/R15903
Revision: 12/22/08 15:33	FileID: 1-SAMP-E:\Gtdec08\H121921.r
Col Type: Confirm	
Sample Size: 30 g	
%Moisture: 34.3	
TestCode: 8081S	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES BY GC/ECD					SW8081A		(SW3550B)
4,4'-DDD	0.0015	J	0.0025	0.00027	mg/Kg-dry	1	12/19/08 18:41
4,4'-DDE	ND		0.0025	0.00028	mg/Kg-dry	1	12/19/08 18:41
4,4'-DDT	0.00079	JP	0.0025	0.00033	mg/Kg-dry	1	12/19/08 18:41
alpha-Chlordane	ND		0.0013	0.00027	mg/Kg-dry	1	12/19/08 18:41
Dieldrin	ND		0.0025	0.00032	mg/Kg-dry	1	12/19/08 18:41
gamma-Chlordane	ND		0.0013	0.00032	mg/Kg-dry	1	12/19/08 18:41
Surr: Tetrachloro-m-xylene	67		37-125	0	%REC	1	12/19/08 18:41
Surr: Decachlorobiphenyl	39		25-145	0	%REC	1	12/19/08 18:41

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811142-005D
Project: Ithaca Dredging	Client Sample ID: <i>Ith-5 (10-14)</i>
W Order: 0811142	Collection Date: 11/19/08 12:50
Matrix: SOIL	Date Received: 11/20/08 9:25
Inst. ID: GCGT 57G	PrepDate: 11/21/08 10:57
ColumnID: RtxCLP	BatchNo: 8505/R15901
Revision: 12/22/08 15:26	FileID: 1-SAMP-E:\Gtdec08\G121922.r
Col Type: Primary	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES BY GC/ECD					SW8081A		(SW3550B)
4,4'-DDD	ND		0.0023	0.00025	mg/Kg-dry	1	12/19/08 19:05
4,4'-DDE	ND		0.0023	0.00026	mg/Kg-dry	1	12/19/08 19:05
4,4'-DDT	ND		0.0023	0.00030	mg/Kg-dry	1	12/19/08 19:05
alpha-Chlordane	ND		0.0012	0.00025	mg/Kg-dry	1	12/19/08 19:05
Dieldrin	ND		0.0023	0.00030	mg/Kg-dry	1	12/19/08 19:05
gamma-Chlordane	ND		0.0012	0.00030	mg/Kg-dry	1	12/19/08 19:05
Surr: Tetrachloro-m-xylene	44		37-125	0	%REC	1	12/19/08 19:05
Surr: Decachlorobiphenyl	26		25-145	0	%REC	1	12/19/08 19:05

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811142-005D
Project: Ithaca Dredging	Client Sample ID: <i>Ith-5 (10-14)</i>
W Order: 0811142	Collection Date: 11/19/08 12:50
Matrix: SOIL	Date Received: 11/20/08 9:25
Inst. ID: GCGT 57H	PrepDate: 11/21/08 10:57
ColumnID: RtxCLP2	BatchNo: 8505/R15903
Revision: 12/22/08 15:33	FileID: 1-SAMP-E:\Gtdec08\H121922.r
Col Type: Confirm	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES BY GC/ECD					SW8081A		(SW3550B)
4,4'-DDD	ND		0.0023	0.00025	mg/Kg-dry 1		12/19/08 19:05
4,4'-DDE	ND		0.0023	0.00026	mg/Kg-dry 1		12/19/08 19:05
4,4'-DDT	ND		0.0023	0.00030	mg/Kg-dry 1		12/19/08 19:05
alpha-Chlordane	ND		0.0012	0.00025	mg/Kg-dry 1		12/19/08 19:05
Dieldrin	ND		0.0023	0.00030	mg/Kg-dry 1		12/19/08 19:05
gamma-Chlordane	ND		0.0012	0.00030	mg/Kg-dry 1		12/19/08 19:05
Surr: Tetrachloro-m-xylene	54		37-125	0	%REC 1		12/19/08 19:05
Surr: Decachlorobiphenyl	36		25-145	0	%REC 1		12/19/08 19:05

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering
Project: Ithaca Dredging
W Order: 0811142
Matrix: SOIL
Inst. ID: GCGT 57G **Sample Size:** 30 g
ColumnID: RtxCLP **%Moisture:** 34.9
Revision: 12/22/08 15:26 **TestCode:** 8081S
Col Type: Primary

Lab ID: 0811142-006D
Client Sample ID: *Ith-1 (6-12)*
Collection Date: 11/19/08 10:30
Date Received: 11/20/08 9:25
PrepDate: 11/21/08 10:57
BatchNo: 8505/R15901
FileID: 1-SAMP-E:\Gtdec08\G121923.r

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES BY GC/ECD					SW8081A		(SW3550B)
4,4'-DDD	0.0023	JP	0.0025	0.00027	mg/Kg-dry	1	12/19/08 19:28
4,4'-DDE	0.0054	P	0.0025	0.00028	mg/Kg-dry	1	12/19/08 19:28
4,4'-DDT	ND		0.0025	0.00033	mg/Kg-dry	1	12/19/08 19:28
alpha-Chlordane	0.00079	JP	0.0013	0.00027	mg/Kg-dry	1	12/19/08 19:28
Dieldrin	ND		0.0025	0.00032	mg/Kg-dry	1	12/19/08 19:28
gamma-Chlordane	ND		0.0013	0.00032	mg/Kg-dry	1	12/19/08 19:28
Surr: Tetrachloro-m-xylene	53		37-125	0	%REC	1	12/19/08 19:28
Surr: Decachlorobiphenyl	29		25-145	0	%REC	1	12/19/08 19:28

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Value exceeds the instrument calibration range
 J Analyte detected below the PQL
 P Prim./Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Practical Quantitation Limit (PQL)
 S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811142-006D
Project: Ithaca Dredging	Client Sample ID: <i>Ith-1 (6-12)</i>
W Order: 0811142	Collection Date: 11/19/08 10:30
Matrix: SOIL	Date Received: 11/20/08 9:25
Inst. ID: GCGT 57H	PrepDate: 11/21/08 10:57
ColumnID: RtxCLP2	BatchNo: 8505/R15903
Revision: 12/22/08 15:33	FileID: 1-SAMP-E:\Gtdec08\H121923.r
Col Type: Confirm	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES BY GC/ECD					SW8081A		(SW3550B)
4,4'-DDD	0.0030	P	0.0025	0.00027	mg/Kg-dry	1	12/19/08 19:28
4,4'-DDE	0.0033	P	0.0025	0.00028	mg/Kg-dry	1	12/19/08 19:28
4,4'-DDT	ND		0.0025	0.00033	mg/Kg-dry	1	12/19/08 19:28
alpha-Chlordane	0.00059	JP	0.0013	0.00027	mg/Kg-dry	1	12/19/08 19:28
Dieldrin	ND		0.0025	0.00032	mg/Kg-dry	1	12/19/08 19:28
gamma-Chlordane	ND		0.0013	0.00032	mg/Kg-dry	1	12/19/08 19:28
Surr: Tetrachloro-m-xylene	69		37-125	0	%REC	1	12/19/08 19:28
Surr: Decachlorobiphenyl	63		25-145	0	%REC	1	12/19/08 19:28

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811142-007D
Project: Ithaca Dredging	Client Sample ID: <i>Ith-Dup1</i>
W Order: 0811142	Collection Date: 11/19/08 0:00
Matrix: SOIL	Date Received: 11/20/08 9:25
Inst. ID: GCGT 57G	Sample Size: 30 g
ColumnID: RtxCLP	%Moisture: 33.4
Revision: 12/22/08 15:26	TestCode: 8081S
Col Type: Primary	PrepDate: 11/21/08 10:57
	BatchNo: 8505/R15901
	FileID: 1-SAMP-E:\Gtdec08\G121924.r

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES BY GC/ECD					SW8081A		(SW3550B)
4,4'-DDD	0.0019	JP	0.0025	0.00026	mg/Kg-dry	1	12/19/08 19:52
4,4'-DDE	0.0043	P	0.0025	0.00028	mg/Kg-dry	1	12/19/08 19:52
4,4'-DDT	ND		0.0025	0.00032	mg/Kg-dry	1	12/19/08 19:52
alpha-Chlordane	0.00063	JP	0.0013	0.00026	mg/Kg-dry	1	12/19/08 19:52
Dieldrin	ND		0.0025	0.00032	mg/Kg-dry	1	12/19/08 19:52
gamma-Chlordane	ND		0.0013	0.00032	mg/Kg-dry	1	12/19/08 19:52
Surr: Tetrachloro-m-xylene	53		37-125	0	%REC	1	12/19/08 19:52
Surr: Decachlorobiphenyl	26		25-145	0	%REC	1	12/19/08 19:52

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811142-007D
Project: Ithaca Dredging	Client Sample ID: <i>Ith-Dup1</i>
W Order: 0811142	Collection Date: 11/19/08 0:00
Matrix: SOIL	Date Received: 11/20/08 9:25
Inst. ID: GCGT [®] 57H	PrepDate: 11/21/08 10:57
ColumnID: RtxCLP2	BatchNo: 8505/R15903
Revision: 12/22/08 15:33	FileID: 1-SAMP-E:\Gtdec08\H121924.r
Col Type: Confirm	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES BY GC/ECD							
					SW8081A		(SW3550B)
4,4'-DDD	0.0024	JP	0.0025	0.00026	mg/Kg-dry	1	12/19/08 19:52
4,4'-DDE	0.0022	JP	0.0025	0.00028	mg/Kg-dry	1	12/19/08 19:52
4,4'-DDT	ND		0.0025	0.00032	mg/Kg-dry	1	12/19/08 19:52
alpha-Chlordane	0.00040	JP	0.0013	0.00026	mg/Kg-dry	1	12/19/08 19:52
Dieldrin	ND		0.0025	0.00032	mg/Kg-dry	1	12/19/08 19:52
gamma-Chlordane	ND		0.0013	0.00032	mg/Kg-dry	1	12/19/08 19:52
Surr: Tetrachloro-m-xylene	58		37-125	0	%REC	1	12/19/08 19:52
Surr: Decachlorobiphenyl	46		25-145	0	%REC	1	12/19/08 19:52

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering
Project: Ithaca Dredging
W Order: 0811166
Matrix: SOIL
Inst. ID: GCGT 57G **Sample Size:** 30 g
ColumnID: RtxCLP **%Moisture:** 35.0
Revision: 12/22/08 15:26 **TestCode:** 8081S
Col Type: Primary

Lab ID: 0811166-001D
Client Sample ID: *Ith-9 (1-14)*
Collection Date: 11/20/08 15:15
Date Received: 11/21/08 16:16
PrepDate: 11/24/08 10:57
BatchNo: 8516/R15901
FileID: I-SAMP-E:\Gtdec08\G121933.r

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES BY GC/ECD					SW8081A		(SW3550B)
4,4'-DDD	0.00077	JP	0.0025	0.00027	mg/Kg-dry	1	12/19/08 23:28
4,4'-DDE	ND		0.0025	0.00028	mg/Kg-dry	1	12/19/08 23:28
4,4'-DDT	ND		0.0025	0.00033	mg/Kg-dry	1	12/19/08 23:28
alpha-Chlordane	ND		0.0013	0.00027	mg/Kg-dry	1	12/19/08 23:28
Dieldrin	ND		0.0025	0.00032	mg/Kg-dry	1	12/19/08 23:28
gamma-Chlordane	ND		0.0013	0.00032	mg/Kg-dry	1	12/19/08 23:28
Surr: Tetrachloro-m-xylene	61		37-125	0	%REC	1	12/19/08 23:28
Surr: Decachlorobiphenyl	36		25-145	0	%REC	1	12/19/08 23:28

Qualifiers: * Value exceeds Maximum Contaminant Level B Analyte detected in the associated Method Blank
 E Value exceeds the instrument calibration range H Holding times for preparation or analysis exceeded
 J Analyte detected below the PQL ND Not Detected at the Practical Quantitation Limit (PQL)
 P Prim./Conf. column %D or RPD exceeds limit S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering
Project: Ithaca Dredging
W Order: 0811166
Matrix: SOIL
Inst. ID: GCGT 57H **Sample Size:** 30 g
ColumnID: RtxCLP2 **%Moisture:** 35.0
Revision: 12/22/08 15:33 **TestCode:** 8081S
Col Type: Confirm

Lab ID: 0811166-001D
Client Sample ID: *Ith-9 (1-14)*
Collection Date: 11/20/08 15:15
Date Received: 11/21/08 16:16
PrepDate: 11/24/08 10:57
BatchNo: 8516/R15903
FileID: 1-SAMP-E:\Gtdec08\H121933.r

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES BY GC/ECD					SW8081A		(SW3550B)
4,4'-DDD	0.00056	JP	0.0025	0.00027	mg/Kg-dry	1	12/19/08 23:28
4,4'-DDE	ND		0.0025	0.00028	mg/Kg-dry	1	12/19/08 23:28
4,4'-DDT	ND		0.0025	0.00033	mg/Kg-dry	1	12/19/08 23:28
alpha-Chlordane	ND		0.0013	0.00027	mg/Kg-dry	1	12/19/08 23:28
Dieldrin	ND		0.0025	0.00032	mg/Kg-dry	1	12/19/08 23:28
gamma-Chlordane	ND		0.0013	0.00032	mg/Kg-dry	1	12/19/08 23:28
Surr: Tetrachloro-m-xylene	69		37-125	0	%REC	1	12/19/08 23:28
Surr: Decachlorobiphenyl	43		25-145	0	%REC	1	12/19/08 23:28

Qualifiers: * Value exceeds Maximum Contaminant Level B Analyte detected in the associated Method Blank
 E Value exceeds the instrument calibration range H Holding times for preparation or analysis exceeded
 J Analyte detected below the PQL ND Not Detected at the Practical Quantitation Limit (PQL)
 P Prim./Conf. column %D or RPD exceeds limit S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811166-002D
Project: Ithaca Dredging	Client Sample ID: <i>Ith-10 (1-14)</i>
W Order: 0811166	Collection Date: 11/20/08 14:15
Matrix: SOIL	Date Received: 11/21/08 16:16
Inst. ID: GCGT 57G	PrepDate: 11/24/08 10:57
ColumnID: RtxCLP	BatchNo: 8516/R15901
Revision: 12/22/08 15:26	FileID: 1-SAMP-E:\Gtdec08\G121934.r
Col Type: Primary	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES BY GC/ECD					SW8081A		(SW3550B)
4,4'-DDD	ND	0.0025	0.00027	mg/Kg-dry	1	12/19/08 23:52	
4,4'-DDE	ND	0.0025	0.00028	mg/Kg-dry	1	12/19/08 23:52	
4,4'-DDT	ND	0.0025	0.00033	mg/Kg-dry	1	12/19/08 23:52	
alpha-Chlordane	ND	0.0013	0.00027	mg/Kg-dry	1	12/19/08 23:52	
Dieldrin	ND	0.0025	0.00032	mg/Kg-dry	1	12/19/08 23:52	
gamma-Chlordane	ND	0.0013	0.00032	mg/Kg-dry	1	12/19/08 23:52	
Surr: Tetrachloro-m-xylene	53	37-125	0	%REC	1	12/19/08 23:52	
Surr: Decachlorobiphenyl	33	25-145	0	%REC	1	12/19/08 23:52	

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811166-002D
Project: Ithaca Dredging	Client Sample ID: <i>Ith-10 (1-14)</i>
W Order: 0811166	Collection Date: 11/20/08 14:15
Matrix: SOIL	Date Received: 11/21/08 16:16
Inst. ID: GCGT 57H	PrepDate: 11/24/08 10:57
ColumnID: RtxCLP2	BatchNo: 8516/R15903
Revision: 12/22/08 15:33	FileID: 1-SAMP-E:\Gtdec08\H121934.r
Col Type: Confirm	
Sample Size: 30 g	
%Moisture: 34.1	
TestCode: 8081S	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES BY GC/ECD					SW8081A		(SW3550B)
4,4'-DDD	ND		0.0025	0.00027	mg/Kg-dry 1		12/19/08 23:52
4,4'-DDE	ND		0.0025	0.00028	mg/Kg-dry 1		12/19/08 23:52
4,4'-DDT	ND		0.0025	0.00033	mg/Kg-dry 1		12/19/08 23:52
alpha-Chlordane	ND		0.0013	0.00027	mg/Kg-dry 1		12/19/08 23:52
Dieldrin	ND		0.0025	0.00032	mg/Kg-dry 1		12/19/08 23:52
gamma-Chlordane	ND		0.0013	0.00032	mg/Kg-dry 1		12/19/08 23:52
Surr: Tetrachloro-m-xylene	65		37-125	0	%REC 1		12/19/08 23:52
Surr: Decachlorobiphenyl	37		25-145	0	%REC 1		12/19/08 23:52

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811166-003D
Project: Ithaca Dredging	Client Sample ID: <i>Ith-11 (1-14)</i>
W Order: 0811166	Collection Date: 11/20/08 12:20
Matrix: SOIL	Date Received: 11/21/08 16:16
Inst. ID: GCGT 57G	PrepDate: 11/24/08 10:57
ColumnID: RtxCLP	BatchNo: 8516/R15901
Revision: 12/22/08 15:26	FileID: 1-SAMP-E:\Gtdec08\G121935.r
Col Type: Primary	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES BY GC/ECD					SW8081A		(SW3550B)
4,4'-DDD	ND		0.0024	0.00026	mg/Kg-dry	1	12/20/08 0:16
4,4'-DDE	ND		0.0024	0.00027	mg/Kg-dry	1	12/20/08 0:16
4,4'-DDT	ND		0.0024	0.00032	mg/Kg-dry	1	12/20/08 0:16
alpha-Chlordane	ND		0.0013	0.00026	mg/Kg-dry	1	12/20/08 0:16
Dieldrin	ND		0.0024	0.00031	mg/Kg-dry	1	12/20/08 0:16
gamma-Chlordane	ND		0.0013	0.00031	mg/Kg-dry	1	12/20/08 0:16
Surr: Tetrachloro-m-xylene	53		37-125	0	%REC	1	12/20/08 0:16
Surr: Decachlorobiphenyl	36		25-145	0	%REC	1	12/20/08 0:16

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811166-003D
Project: Ithaca Dredging	Client Sample ID: <i>Ith-11 (1-14)</i>
W Order: 0811166	Collection Date: 11/20/08 12:20
Matrix: SOIL	Date Received: 11/21/08 16:16
Inst. ID: GCGT 57H	PrepDate: 11/24/08 10:57
ColumnID: RtxCLP2	BatchNo: 8516/R15903
Revision: 12/22/08 15:33	FileID: I-SAMP-E:\Gtdec08\H121935.r
Col Type: Confirm	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES BY GC/ECD					SW8081A		(SW3550B)
4,4'-DDD	ND		0.0024	0.00026	mg/Kg-dry 1		12/20/08 0:16
4,4'-DDE	ND		0.0024	0.00027	mg/Kg-dry 1		12/20/08 0:16
4,4'-DDT	ND		0.0024	0.00032	mg/Kg-dry 1		12/20/08 0:16
alpha-Chlordane	ND		0.0013	0.00026	mg/Kg-dry 1		12/20/08 0:16
Dieldrin	ND		0.0024	0.00031	mg/Kg-dry 1		12/20/08 0:16
gamma-Chlordane	ND		0.0013	0.00031	mg/Kg-dry 1		12/20/08 0:16
Surr: Tetrachloro-m-xylene	62		37-125	0	%REC 1		12/20/08 0:16
Surr: Decachlorobiphenyl	44		25-145	0	%REC 1		12/20/08 0:16

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

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(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811166-004D
Project: Ithaca Dredging	Client Sample ID: <i>Ith-12 (1-14)</i>
W Order: 0811166	Collection Date: 11/20/08 10:45
Matrix: SOIL	Date Received: 11/21/08 16:16
Inst. ID: GCGT 57G	PrepDate: 11/24/08 10:57
ColumnID: RtxCLP	BatchNo: 8516/R15901
Revision: 12/22/08 15:26	FileID: 1-SAMP-E:\Gtdec08\G121936.r
Col Type: Primary	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES BY GC/ECD					SW8081A		(SW3550B)
4,4'-DDD	ND	0.0026	0.00027	mg/Kg-dry	1	12/20/08 0:40	
4,4'-DDE	ND	0.0026	0.00029	mg/Kg-dry	1	12/20/08 0:40	
4,4'-DDT	ND	0.0026	0.00034	mg/Kg-dry	1	12/20/08 0:40	
alpha-Chlordane	ND	0.0013	0.00027	mg/Kg-dry	1	12/20/08 0:40	
Dieldrin	ND	0.0026	0.00033	mg/Kg-dry	1	12/20/08 0:40	
gamma-Chlordane	ND	0.0013	0.00033	mg/Kg-dry	1	12/20/08 0:40	
Surr: Tetrachloro-m-xylene	58	37-125	0	%REC	1	12/20/08 0:40	
Surr: Decachlorobiphenyl	42	25-145	0	%REC	1	12/20/08 0:40	

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811166-004D
Project: Ithaca Dredging	Client Sample ID: <i>Ith-12 (1-14)</i>
W Order: 0811166	Collection Date: 11/20/08 10:45
Matrix: SOIL	Date Received: 11/21/08 16:16
Inst. ID: GCGT 57H	Sample Size: 30 g
ColumnID: RtxCLP2	%Moisture: 36.2
Revision: 12/22/08 15:33	TestCode: 8081S
Col Type: Confirm	PrepDate: 11/24/08 10:57
	BatchNo: 8516/R15903
	FileID: 1-SAMP-E:\Gtdec08\H121936.r

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES BY GC/ECD					SW8081A		(SW3550B)
4,4'-DDD	ND		0.0026	0.00027	mg/Kg-dry 1		12/20/08 0:40
4,4'-DDE	ND		0.0026	0.00029	mg/Kg-dry 1		12/20/08 0:40
4,4'-DDT	ND		0.0026	0.00034	mg/Kg-dry 1		12/20/08 0:40
alpha-Chlordane	ND		0.0013	0.00027	mg/Kg-dry 1		12/20/08 0:40
Dieldrin	ND		0.0026	0.00033	mg/Kg-dry 1		12/20/08 0:40
gamma-Chlordane	ND		0.0013	0.00033	mg/Kg-dry 1		12/20/08 0:40
Surr: Tetrachloro-m-xylene	71		37-125	0	%REC	1	12/20/08 0:40
Surr: Decachlorobiphenyl	58		25-145	0	%REC	1	12/20/08 0:40

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811166-005D
Project: Ithaca Dredging	Client Sample ID: <i>Ith-16 (1-14)</i>
W Order: 0811166	Collection Date: 11/20/08 9:30
Matrix: SOIL	Date Received: 11/21/08 16:16
Inst. ID: GCGT 57G	Sample Size: 30 g
ColumnID: RtxCLP	%Moisture: 25.2
Revision: 12/22/08 15:26	TestCode: 8081S
Col Type: Primary	PrepDate: 11/24/08 10:57
	BatchNo: 8516/R15901
	FileID: 1-SAMP-E:\Gtdec08\G121937.r

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES BY GC/ECD					SW8081A		(SW3550B)
4,4'-DDD	ND	0.0022	0.00023	mg/Kg-dry	1	12/20/08 1:04	
4,4'-DDE	ND	0.0022	0.00025	mg/Kg-dry	1	12/20/08 1:04	
4,4'-DDT	ND	0.0022	0.00029	mg/Kg-dry	1	12/20/08 1:04	
alpha-Chlordane	ND	0.0011	0.00023	mg/Kg-dry	1	12/20/08 1:04	
Dieldrin	ND	0.0022	0.00028	mg/Kg-dry	1	12/20/08 1:04	
gamma-Chlordane	ND	0.0011	0.00028	mg/Kg-dry	1	12/20/08 1:04	
Surr: Tetrachloro-m-xylene	59	37-125	0	%REC	1	12/20/08 1:04	
Surr: Decachlorobiphenyl	40	25-145	0	%REC	1	12/20/08 1:04	

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering
Project: Ithaca Dredging
W Order: 0811166
Matrix: SOIL
Inst. ID: GCGT 57H **Sample Size:** 30 g
ColumnID: RtxCLP2 **%Moisture:** 25.2
Revision: 12/22/08 15:33 **TestCode:** 8081S
Col Type: Confirm

Lab ID: 0811166-005D
Client Sample ID: *Ith-16 (1-14)*
Collection Date: 11/20/08 9:30
Date Received: 11/21/08 16:16
PrepDate: 11/24/08 10:57
BatchNo: 8516/R15903
FileID: I-SAMP-E:\Gtdec08\H121937.r

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES BY GC/ECD					SW8081A		(SW3550B)
4,4'-DDD	ND	0.0022	0.00023	mg/Kg-dry	1	12/20/08 1:04	
4,4'-DDE	ND	0.0022	0.00025	mg/Kg-dry	1	12/20/08 1:04	
4,4'-DDT	ND	0.0022	0.00029	mg/Kg-dry	1	12/20/08 1:04	
alpha-Chlordane	ND	0.0011	0.00023	mg/Kg-dry	1	12/20/08 1:04	
Dieldrin	ND	0.0022	0.00028	mg/Kg-dry	1	12/20/08 1:04	
gamma-Chlordane	ND	0.0011	0.00028	mg/Kg-dry	1	12/20/08 1:04	
Surr: Tetrachloro-m-xylene	96	37-125	0	%REC	1	12/20/08 1:04	
Surr: Decachlorobiphenyl	56	25-145	0	%REC	1	12/20/08 1:04	

Qualifiers: * Value exceeds Maximum Contaminant Level B Analyte detected in the associated Method Blank
 E Value exceeds the instrument calibration range H Holding times for preparation or analysis exceeded
 J Analyte detected below the PQL ND Not Detected at the Practical Quantitation Limit (PQL)
 P Prim./Conf. column %D or RPD exceeds limit S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering

Project: Ithaca Dredging

W Order: 0811166

Matrix: SOIL

Inst. ID: GCGT 57G

ColumnID: RtxCLP

Revision: 12/22/08 15:26

Col Type: Primary

Sample Size: 30 g

%Moisture: 25.2

TestCode: 8081S

Lab ID: 0811166-006D

Client Sample ID: *Ith-14 (1-14)*

Collection Date: 11/21/08 9:50

Date Received: 11/21/08 16:16

PrepDate: 11/24/08 10:57

BatchNo: 8516/R15901

FileID: 1-SAMP-E:\Gtdec08\G121940.r

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES BY GC/ECD					SW8081A		(SW3550B)
4,4'-DDD	ND	0.0022	0.00023	mg/Kg-dry	1		12/20/08 2:16
4,4'-DDE	ND	0.0022	0.00025	mg/Kg-dry	1		12/20/08 2:16
4,4'-DDT	ND	0.0022	0.00029	mg/Kg-dry	1		12/20/08 2:16
alpha-Chlordane	ND	0.0011	0.00023	mg/Kg-dry	1		12/20/08 2:16
Dieldrin	ND	0.0022	0.00028	mg/Kg-dry	1		12/20/08 2:16
gamma-Chlordane	ND	0.0011	0.00028	mg/Kg-dry	1		12/20/08 2:16
Surr: Tetrachloro-m-xylene	61	37-125	0	%REC	1		12/20/08 2:16
Surr: Decachlorobiphenyl	42	25-145	0	%REC	1		12/20/08 2:16

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811166-006D
Project: Ithaca Dredging	Client Sample ID: <i>Ith-14 (1-14)</i>
W Order: 0811166	Collection Date: 11/21/08 9:50
Matrix: SOIL	Date Received: 11/21/08 16:16
Inst. ID: GCGT 57H	PrepDate: 11/24/08 10:57
ColumnID: RtxCLP2	BatchNo: 8516/R15903
Revision: 12/22/08 15:33	FileID: 1-SAMP-E:\Gtdec08\H121940.r
Col Type: Confirm	
Sample Size: 30 g	
%Moisture: 25.2	
TestCode: 8081S	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES BY GC/ECD					SW8081A		(SW3550B)
4,4'-DDD	ND		0.0022	0.00023	mg/Kg-dry 1		12/20/08 2:16
4,4'-DDE	ND		0.0022	0.00025	mg/Kg-dry 1		12/20/08 2:16
4,4'-DDT	ND		0.0022	0.00029	mg/Kg-dry 1		12/20/08 2:16
alpha-Chlordane	ND		0.0011	0.00023	mg/Kg-dry 1		12/20/08 2:16
Dieldrin	ND		0.0022	0.00028	mg/Kg-dry 1		12/20/08 2:16
gamma-Chlordane	ND		0.0011	0.00028	mg/Kg-dry 1		12/20/08 2:16
Surr: Tetrachloro-m-xylene	68		37-125	0	%REC 1		12/20/08 2:16
Surr: Decachlorobiphenyl	40		25-145	0	%REC 1		12/20/08 2:16

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering
Project: Ithaca Dredging
W Order: 0811166
Matrix: SOIL
Inst. ID: GCGT 57G
ColumnID: RtxCLP
Revision: 12/22/08 15:26
Col Type: Primary

Sample Size: 30 g
%Moisture: 30.9
TestCode: 8081S

Lab ID: 0811166-007D
Client Sample ID: *Ith-13 (1-10)*
Collection Date: 11/21/08 8:30
Date Received: 11/21/08 16:16
PrepDate: 11/24/08 10:57
BatchNo: 8516/R15901
FileID: 1-SAMP-E:\Gtdec08\G121941.r

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES BY GC/ECD					SW8081A		(SW3550B)
4,4'-DDD	ND		0.0024	0.00025	mg/Kg-dry 1		12/20/08 2:40
4,4'-DDE	ND		0.0024	0.00027	mg/Kg-dry 1		12/20/08 2:40
4,4'-DDT	ND		0.0024	0.00031	mg/Kg-dry 1		12/20/08 2:40
alpha-Chlordane	ND		0.0012	0.00025	mg/Kg-dry 1		12/20/08 2:40
Dieldrin	ND		0.0024	0.00030	mg/Kg-dry 1		12/20/08 2:40
gamma-Chlordane	ND		0.0012	0.00030	mg/Kg-dry 1		12/20/08 2:40
Surr: Tetrachloro-m-xylene	50		37-125	0	%REC	1	12/20/08 2:40
Surr: Decachlorobiphenyl	34		25-145	0	%REC	1	12/20/08 2:40

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Value exceeds the instrument calibration range
 J Analyte detected below the PQL
 P Prim./Conf. column %D or RPD exceeds limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Practical Quantitation Limit (PQL)
 S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811166-007D
Project: Ithaca Dredging	Client Sample ID: <i>Ith-13 (1-10)</i>
W Order: 0811166	Collection Date: 11/21/08 8:30
Matrix: SOIL	Date Received: 11/21/08 16:16
Inst. ID: GCGT 57H	PrepDate: 11/24/08 10:57
ColumnID: RtxCLP2	BatchNo: 8516/R15903
Revision: 12/22/08 15:33	FileID: 1-SAMP-E:\Gtdec08\H121941.r
Col Type: Confirm	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES BY GC/ECD					SW8081A		(SW3550B)
4,4'-DDD	ND	0.0024	0.00025	mg/Kg-dry	1	12/20/08 2:40	
4,4'-DDE	ND	0.0024	0.00027	mg/Kg-dry	1	12/20/08 2:40	
4,4'-DDT	ND	0.0024	0.00031	mg/Kg-dry	1	12/20/08 2:40	
alpha-Chlordane	ND	0.0012	0.00025	mg/Kg-dry	1	12/20/08 2:40	
Dieldrin	ND	0.0024	0.00030	mg/Kg-dry	1	12/20/08 2:40	
gamma-Chlordane	ND	0.0012	0.00030	mg/Kg-dry	1	12/20/08 2:40	
Surr: Tetrachloro-m-xylene	68	37-125	0	%REC	1	12/20/08 2:40	
Surr: Decachlorobiphenyl	40	25-145	0	%REC	1	12/20/08 2:40	

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811166-008D
Project: Ithaca Dredging	Client Sample ID: <i>Ith-13 (10-14)</i>
W Order: 0811166	Collection Date: 11/21/08 8:40
Matrix: SOIL	Date Received: 11/21/08 16:16
Inst. ID: GCGT 57G	PrepDate: 11/24/08 10:57
ColumnID: RtxCLP	BatchNo: 8516/R15901
Revision: 12/22/08 15:26	FileID: 1-SAMP-E:\Gtdec08\G121942.r
Col Type: Primary	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES BY GC/ECD					SW8081A		(SW3550B)
4,4'-DDD	ND	0.0024	0.00025	mg/Kg-dry	1	12/20/08 3:04	
4,4'-DDE	ND	0.0024	0.00027	mg/Kg-dry	1	12/20/08 3:04	
4,4'-DDT	ND	0.0024	0.00031	mg/Kg-dry	1	12/20/08 3:04	
alpha-Chlordane	ND	0.0012	0.00025	mg/Kg-dry	1	12/20/08 3:04	
Dieldrin	ND	0.0024	0.00030	mg/Kg-dry	1	12/20/08 3:04	
gamma-Chlordane	ND	0.0012	0.00030	mg/Kg-dry	1	12/20/08 3:04	
Surr: Tetrachloro-m-xylene	55	37-125	0	%REC	1	12/20/08 3:04	
Surr: Decachlorobiphenyl	39	25-145	0	%REC	1	12/20/08 3:04	

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811166-008D
Project: Ithaca Dredging	Client Sample ID: <i>Ith-13 (10-14)</i>
W Order: 0811166	Collection Date: 11/21/08 8:40
Matrix: SOIL	Date Received: 11/21/08 16:16
Inst. ID: GCGT 57H	PrepDate: 11/24/08 10:57
ColumnID: RtxCLP2	BatchNo: 8516/R15903
Revision: 12/22/08 15:33	FileID: 1-SAMP-E:\Gtdec08\H121942.r
Col Type: Confirm	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES BY GC/ECD					SW8081A		(SW3550B)
4,4'-DDD	ND	0.0024	0.00025	mg/Kg-dry	1	12/20/08 3:04	
4,4'-DDE	ND	0.0024	0.00027	mg/Kg-dry	1	12/20/08 3:04	
4,4'-DDT	ND	0.0024	0.00031	mg/Kg-dry	1	12/20/08 3:04	
alpha-Chlordane	ND	0.0012	0.00025	mg/Kg-dry	1	12/20/08 3:04	
Dieldrin	ND	0.0024	0.00030	mg/Kg-dry	1	12/20/08 3:04	
gamma-Chlordane	ND	0.0012	0.00030	mg/Kg-dry	1	12/20/08 3:04	
Surr: Tetrachloro-m-xylene	70	37-125	0	%REC	1	12/20/08 3:04	
Surr: Decachlorobiphenyl	54	25-145	0	%REC	1	12/20/08 3:04	

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering
Project: Ithaca Dredging
W Order: 0811166
Matrix: SOIL
Inst. ID: GCGT 57G **Sample Size:** 30 g
ColumnID: RtxCLP **%Moisture:** 40.0
Revision: 12/22/08 15:26 **TestCode:** 8081S
Col Type: Primary

Lab ID: 0811166-009D
Client Sample ID: *Ith-1 (1-6)*
Collection Date: 11/20/08 16:00
Date Received: 11/21/08 16:16
PrepDate: 11/24/08 10:57
BatchNo: 8516/R15901
FileID: 1-SAMP-E:\Gtdec08\G121943.r

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES BY GC/ECD					SW8081A		(SW3550B)
4,4'-DDD	0.0011	JP	0.0028	0.00029	mg/Kg-dry 1		12/20/08 3:28
4,4'-DDE	ND		0.0028	0.00031	mg/Kg-dry 1		12/20/08 3:28
4,4'-DDT	0.0023	JP	0.0028	0.00036	mg/Kg-dry 1		12/20/08 3:28
alpha-Chlordane	ND		0.0014	0.00029	mg/Kg-dry 1		12/20/08 3:28
Dieldrin	0.00044	JP	0.0028	0.00035	mg/Kg-dry 1		12/20/08 3:28
gamma-Chlordane	ND		0.0014	0.00035	mg/Kg-dry 1		12/20/08 3:28
Surr: Tetrachloro-m-xylene	85		37-125	0	%REC	1	12/20/08 3:28
Surr: Decachlorobiphenyl	37		25-145	0	%REC	1	12/20/08 3:28

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811166-009D
Project: Ithaca Dredging	Client Sample ID: <i>Ith-1 (1-6)</i>
W Order: 0811166	Collection Date: 11/20/08 16:00
Matrix: SOIL	Date Received: 11/21/08 16:16
Inst. ID: GCGT 57H	PrepDate: 11/24/08 10:57
ColumnID: RtxCLP2	BatchNo: 8516/R15903
Revision: 12/22/08 15:33	FileID: 1-SAMP-E:\Gtdec08\H121943.r
Col Type: Confirm	
Sample Size: 30 g	
%Moisture: 40.0	
TestCode: 8081S	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES BY GC/ECD					SW8081A		(SW3550B)
4,4'-DDD	0.00058	JP	0.0028	0.00029	mg/Kg-dry	1	12/20/08 3:28
4,4'-DDE	ND		0.0028	0.00031	mg/Kg-dry	1	12/20/08 3:28
4,4'-DDT	0.00086	JP	0.0028	0.00036	mg/Kg-dry	1	12/20/08 3:28
alpha-Chlordane	ND		0.0014	0.00029	mg/Kg-dry	1	12/20/08 3:28
Dieldrin	0.0025	JP	0.0028	0.00035	mg/Kg-dry	1	12/20/08 3:28
gamma-Chlordane	ND		0.0014	0.00035	mg/Kg-dry	1	12/20/08 3:28
Surr: Tetrachloro-m-xylene	86		37-125	0	%REC	1	12/20/08 3:28
Surr: Decachlorobiphenyl	72		25-145	0	%REC	1	12/20/08 3:28

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering

Project: Ithaca Dredging

W Order: 0811166

Matrix: SOIL

Inst. ID: GCGT 57G

Sample Size: 30 g

ColumnID: RtxCLP

%Moisture: 41.2

Revision: 12/22/08 15:26

TestCode: 8081S

Col Type: Primary

Lab ID: 0811166-010D

Client Sample ID: *Ith-DUP2*

Collection Date: 11/20/08 0:00

Date Received: 11/21/08 16:16

PrepDate: 11/24/08 10:57

BatchNo: 8516/R15901

FileID: 1-SAMP-E:\Gtdec08\G121944.r

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES BY GC/ECD					SW8081A		(SW3550B)
4,4'-DDD	ND	0.0028	0.00030	mg/Kg-dry	1	12/20/08 3:52	
4,4'-DDE	ND	0.0028	0.00031	mg/Kg-dry	1	12/20/08 3:52	
4,4'-DDT	ND	0.0028	0.00037	mg/Kg-dry	1	12/20/08 3:52	
alpha-Chlordane	ND	0.0014	0.00030	mg/Kg-dry	1	12/20/08 3:52	
Dieldrin	ND	0.0028	0.00036	mg/Kg-dry	1	12/20/08 3:52	
gamma-Chlordane	ND	0.0014	0.00036	mg/Kg-dry	1	12/20/08 3:52	
Surr: Tetrachloro-m-xylene	54	37-125	0	%REC	1	12/20/08 3:52	
Surr: Decachlorobiphenyl	29	25-145	0	%REC	1	12/20/08 3:52	

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits

Print Date: 12/22/08 15:51

414509

Project Supervisor: Anthony Crescenzi



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering

Project: Ithaca Dredging

W Order: 0811166

Matrix: SOIL

Inst. ID: GCGT 57H

ColumnID: RtxCLP2

Revision: 12/22/08 15:33

Col Type: Confirm

Sample Size: 30 g

%Moisture: 41.2

TestCode: 8081S

Lab ID: 0811166-010D

Client Sample ID: Ith-DUP2

Collection Date: 11/20/08 0:00

Date Received: 11/21/08 16:16

PrepDate: 11/24/08 10:57

BatchNo: 8516/R15903

FileID: 1-SAMP-E:\Gtdec08\H121944.r

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES BY GC/ECD					SW8081A		(SW3550B)
4,4'-DDD	ND	0.0028	0.00030	mg/Kg-dry	1		12/20/08 3:52
4,4'-DDE	ND	0.0028	0.00031	mg/Kg-dry	1		12/20/08 3:52
4,4'-DDT	ND	0.0028	0.00037	mg/Kg-dry	1		12/20/08 3:52
alpha-Chlordane	ND	0.0014	0.00030	mg/Kg-dry	1		12/20/08 3:52
Dieldrin	ND	0.0028	0.00036	mg/Kg-dry	1		12/20/08 3:52
gamma-Chlordane	ND	0.0014	0.00036	mg/Kg-dry	1		12/20/08 3:52
Surr: Tetrachloro-m-xylene	59	37-125	0	%REC	1		12/20/08 3:52
Surr: Decachlorobiphenyl	39	25-145	0	%REC	1		12/20/08 3:52

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering
Project: Ithaca Dredging
W Order: 0811166
Matrix: SOIL
Inst. ID: GCGT 57G **Sample Size:** 30 g
ColumnID: RtxCLP **%Moisture:** 47.6
Revision: 12/22/08 15:26 **TestCode:** 8081S
Col Type: Primary

Lab ID: 0811166-011D
Client Sample ID: *Ith-2 (1-6)*
Collection Date: 11/20/08 16:10
Date Received: 11/21/08 16:16
PrepDate: 11/24/08 10:57
BatchNo: 8516/RI5901
FileID: 1-SAMP-E:\Gtdec08\G121945.r

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES BY GC/ECD					SW8081A		(SW3550B)
4,4'-DDD	0.0011	JP	0.0031	0.00033	mg/Kg-dry	1	12/20/08 4:16
4,4'-DDE	0.0013	JP	0.0031	0.00035	mg/Kg-dry	1	12/20/08 4:16
4,4'-DDT	0.00080	JP	0.0031	0.00041	mg/Kg-dry	1	12/20/08 4:16
alpha-Chlordane	ND		0.0016	0.00033	mg/Kg-dry	1	12/20/08 4:16
Dieldrin	0.00060	JP	0.0031	0.00040	mg/Kg-dry	1	12/20/08 4:16
gamma-Chlordane	ND		0.0016	0.00040	mg/Kg-dry	1	12/20/08 4:16
Surr: Tetrachloro-m-xylene	82		37-125	0	%REC	1	12/20/08 4:16
Surr: Decachlorobiphenyl	35		25-145	0	%REC	1	12/20/08 4:16

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering

Project: Ithaca Dredging

W Order: 0811166

Matrix: SOIL

Inst. ID: GCGT 57H

ColumnID: RtxCLP2

Revision: 12/22/08 15:33

Col Type: Confirm

Sample Size: 30 g

%Moisture: 47.6

TestCode: 8081S

Lab ID: 0811166-011D

Client Sample ID: Ith-2 (1-6)

Collection Date: 11/20/08 16:10

Date Received: 11/21/08 16:16

PrepDate: 11/24/08 10:57

BatchNo: 8516/R15903

FileID: 1-SAMP-E:\Gtdec08\H121945.r

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES BY GC/ECD					SW8081A		(SW3550B)
4,4'-DDD	0.0017	JP	0.0031	0.00033	mg/Kg-dry	1	12/20/08 4:16
4,4'-DDE	0.0019	JP	0.0031	0.00035	mg/Kg-dry	1	12/20/08 4:16
4,4'-DDT	0.0019	JP	0.0031	0.00041	mg/Kg-dry	1	12/20/08 4:16
alpha-Chlordane	ND		0.0016	0.00033	mg/Kg-dry	1	12/20/08 4:16
Dieldrin	0.0015	JP	0.0031	0.00040	mg/Kg-dry	1	12/20/08 4:16
gamma-Chlordane	ND		0.0016	0.00040	mg/Kg-dry	1	12/20/08 4:16
Surr: Tetrachloro-m-xylene	61		37-125	0	%REC	1	12/20/08 4:16
Surr: Decachlorobiphenyl	58		25-145	0	%REC	1	12/20/08 4:16

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering

Project: Ithaca Dredging

W Order: 0811166

Matrix: SOIL

Inst. ID: GCGT 57G

Sample Size: 30 g

ColumnID: RtxCLP

%Moisture: 48.3

Revision: 12/22/08 15:26

TestCode: 8081S

Col Type: Primary

Lab ID: 0811166-012D

Client Sample ID: Ith-3 (I-6)

Collection Date: 11/20/08 16:15

Date Received: 11/21/08 16:16

PrepDate: 11/24/08 10:57

BatchNo: 8516/R15901

FileID: I-SAMP-E:\Gtdec08\G121946.r

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES BY GC/ECD					SW8081A		(SW3550B)
4,4'-DDD	0.0015	J	0.0032	0.00034	mg/Kg-dry	1	12/20/08 4:40
4,4'-DDE	0.0033		0.0032	0.00036	mg/Kg-dry	1	12/20/08 4:40
4,4'-DDT	0.010	P	0.0032	0.00042	mg/Kg-dry	1	12/20/08 4:40
alpha-Chlordane	ND		0.0016	0.00034	mg/Kg-dry	1	12/20/08 4:40
Dieldrin	ND		0.0032	0.00041	mg/Kg-dry	1	12/20/08 4:40
gamma-Chlordane	ND		0.0016	0.00041	mg/Kg-dry	1	12/20/08 4:40
Surr: Tetrachloro-m-xylene	75		37-125	0	%REC	1	12/20/08 4:40
Surr: Decachlorobiphenyl	39		25-145	0	%REC	1	12/20/08 4:40

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits

Print Date: 12/22/08 15:51

414511

Project Supervisor: Anthony Crescenzi



Life Science Laboratories, Inc.

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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811166-012D
Project: Ithaca Dredging	Client Sample ID: <i>Ith-3 (1-6)</i>
W Order: 0811166	Collection Date: 11/20/08 16:15
Matrix: SOIL	Date Received: 11/21/08 16:16
Inst. ID: GCGT 57H	PrepDate: 11/24/08 10:57
ColumnID: RtxCLP2	BatchNo: 8516/R15903
Revision: 12/22/08 15:33	FileID: 1-SAMP-E:\Gtdec08\H121946.r
Col Type: Confirm	
Sample Size: 30 g	
%Moisture: 48.3	
TestCode: 8081S	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES BY GC/ECD					SW8081A		(SW3550B)
4,4'-DDD	0.0015	J	0.0032	0.00034	mg/Kg-dry	1	12/20/08 4:40
4,4'-DDE	0.0033		0.0032	0.00036	mg/Kg-dry	1	12/20/08 4:40
4,4'-DDT	0.013	P	0.0032	0.00042	mg/Kg-dry	1	12/20/08 4:40
alpha-Chlordane	ND		0.0016	0.00034	mg/Kg-dry	1	12/20/08 4:40
Dieldrin	ND		0.0032	0.00041	mg/Kg-dry	1	12/20/08 4:40
gamma-Chlordane	ND		0.0016	0.00041	mg/Kg-dry	1	12/20/08 4:40
Surr: Tetrachloro-m-xylene	67		37-125	0	%REC	1	12/20/08 4:40
Surr: Decachlorobiphenyl	77		25-145	0	%REC	1	12/20/08 4:40

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811166-013D
Project: Ithaca Dredging	Client Sample ID: <i>Ith-4 (1-6)</i>
W Order: 0811166	Collection Date: 11/20/08 16:20
Matrix: SOIL	Date Received: 11/21/08 16:16
Inst. ID: GCGT 57G	PrepDate: 11/24/08 10:57
ColumnID: RtxCLP	BatchNo: 8516/R15901
Revision: 12/22/08 15:26	FileID: 1-SAMP-E:\Gtdec08\G121947.r
Col Type: Primary	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES BY GC/ECD					SW8081A		(SW3550B)
4,4'-DDD	ND		0.0026	0.00028	mg/Kg-dry 1		12/20/08 5:04
4,4'-DDE	ND		0.0026	0.00029	mg/Kg-dry 1		12/20/08 5:04
4,4'-DDT	0.00042	JP	0.0026	0.00034	mg/Kg-dry 1		12/20/08 5:04
alpha-Chlordane	ND		0.0013	0.00028	mg/Kg-dry 1		12/20/08 5:04
Dieldrin	0.00058	JP	0.0026	0.00033	mg/Kg-dry 1		12/20/08 5:04
gamma-Chlordane	ND		0.0013	0.00033	mg/Kg-dry 1		12/20/08 5:04
Surr: Tetrachloro-m-xylene	55		37-125	0	%REC 1		12/20/08 5:04
Surr: Decachlorobiphenyl	34		25-145	0	%REC 1		12/20/08 5:04

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811166-013D
Project: Ithaca Dredging	Client Sample ID: <i>Ith-4 (1-6)</i>
W Order: 0811166	Collection Date: 11/20/08 16:20
Matrix: SOIL	Date Received: 11/21/08 16:16
Inst. ID: GCGT 57H Sample Size: 30 g	PrepDate: 11/24/08 10:57
ColumnID: RtxCLP2 %Moisture: 37.0	BatchNo: 8516/R15903
Revision: 12/22/08 15:33 TestCode: 8081S	FileID: 1-SAMP-E:\Gtdec08\H121947.r
Col Type: Confirm	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES BY GC/ECD					SW8081A		(SW3550B)
4,4'-DDD	ND		0.0026	0.00028	mg/Kg-dry 1		12/20/08 5:04
4,4'-DDE	ND		0.0026	0.00029	mg/Kg-dry 1		12/20/08 5:04
4,4'-DDT	0.0011	JP	0.0026	0.00034	mg/Kg-dry 1		12/20/08 5:04
alpha-Chlordane	ND		0.0013	0.00028	mg/Kg-dry 1		12/20/08 5:04
Dieldrin	0.0012	JP	0.0026	0.00033	mg/Kg-dry 1		12/20/08 5:04
gamma-Chlordane	ND		0.0013	0.00033	mg/Kg-dry 1		12/20/08 5:04
Surr: Tetrachloro-m-xylene	62		37-125	0	%REC 1		12/20/08 5:04
Surr: Decachlorobiphenyl	55		25-145	0	%REC 1		12/20/08 5:04

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811166-014D
Project: Ithaca Dredging	Client Sample ID: <i>Ith-6 (I-6)</i>
W Order: 0811166	Collection Date: 11/20/08 16:25
Matrix: SOIL	Date Received: 11/21/08 16:16
Inst. ID: GCGT 57G	PrepDate: 11/24/08 10:57
ColumnID: RtxCLP	BatchNo: 8516/R15901
Revision: 12/22/08 15:26	FileID: 1-SAMP-E:\Gtdec08\G121948.r
Col Type: Primary	
Sample Size: 30 g	
%Moisture: 39.7	
TestCode: 8081S	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES BY GC/ECD					SW8081A		(SW3550B)
4,4'-DDD	ND		0.0027	0.00029	mg/Kg-dry 1		12/20/08 5:27
4,4'-DDE	ND		0.0027	0.00031	mg/Kg-dry 1		12/20/08 5:27
4,4'-DDT	0.00041	J	0.0027	0.00036	mg/Kg-dry 1		12/20/08 5:27
alpha-Chlordane	ND		0.0014	0.00029	mg/Kg-dry 1		12/20/08 5:27
Dieldrin	ND		0.0027	0.00035	mg/Kg-dry 1		12/20/08 5:27
gamma-Chlordane	ND		0.0014	0.00035	mg/Kg-dry 1		12/20/08 5:27
Surr: Tetrachloro-m-xylene	76		37-125	0	%REC 1		12/20/08 5:27
Surr: Decachlorobiphenyl	42		25-145	0	%REC 1		12/20/08 5:27

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering

Project: Ithaca Dredging

W Order: 0811166

Matrix: SOIL

Inst. ID: GCGT 57H

Sample Size: 30 g

ColumnID: RtxCLP2

%Moisture: 39.7

Revision: 12/22/08 15:33

TestCode: 8081S

Col Type: Confirm

Lab ID: 0811166-014D

Client Sample ID: Ith-6 (1-6)

Collection Date: 11/20/08 16:25

Date Received: 11/21/08 16:16

PrepDate: 11/24/08 10:57

BatchNo: 8516/R15903

FileID: I-SAMP-E:\Gtdec08\H121948.r

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES BY GC/ECD					SW8081A		(SW3550B)
4,4'-DDD	ND		0.0027	0.00029	mg/Kg-dry	1	12/20/08 5:27
4,4'-DDE	ND		0.0027	0.00031	mg/Kg-dry	1	12/20/08 5:27
4,4'-DDT	0.00041	J	0.0027	0.00036	mg/Kg-dry	1	12/20/08 5:27
alpha-Chlordane	ND		0.0014	0.00029	mg/Kg-dry	1	12/20/08 5:27
Dieldrin	ND		0.0027	0.00035	mg/Kg-dry	1	12/20/08 5:27
gamma-Chlordane	ND		0.0014	0.00035	mg/Kg-dry	1	12/20/08 5:27
Surr: Tetrachloro-m-xylene	63		37-125	0	%REC	1	12/20/08 5:27
Surr: Decachlorobiphenyl	56		25-145	0	%REC	1	12/20/08 5:27

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits

Print Date: 12/22/08 15:52

414560

Project Supervisor: Anthony Crescenzi



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811131-001D
Project: Ithaca Dredging	Client Sample ID: <i>Ith-3 (6-12)</i>
W Order: 0811131	Collection Date: 11/17/08 14:50
Matrix: SOIL	Date Received: 11/18/08 16:28
Inst. ID: GC90 20C	PrepDate: 11/21/08 11:03
ColumnID: DB-608	BatchNo: 8506/R15633
Revision: 12/08/08 12:20	FileID: 1-SAMP-E:\90dec08\C120112.r
Col Type: Primary	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD					SW8082		(SW3550B)
Aroclor 1016	ND	0.0113	0.00145	mg/Kg-dry	1	12/01/08 18:42	
Aroclor 1221	ND	0.0113	0.00147	mg/Kg-dry	1	12/01/08 18:42	
Aroclor 1232	ND	0.0113	0.00090	mg/Kg-dry	1	12/01/08 18:42	
Aroclor 1242	ND	0.0113	0.00122	mg/Kg-dry	1	12/01/08 18:42	
Aroclor 1248	ND	0.0113	0.00237	mg/Kg-dry	1	12/01/08 18:42	
Aroclor 1254	ND	0.0113	0.00315	mg/Kg-dry	1	12/01/08 18:42	
Aroclor 1260	ND	0.0113	0.00133	mg/Kg-dry	1	12/01/08 18:42	
Surr: Tetrachloro-m-xylene	80	44-134	0	%REC	1	12/01/08 18:42	
Surr: Decachlorobiphenyl	50	36-141	0	%REC	1	12/01/08 18:42	

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering
Project: Ithaca Dredging
W Order: 0811131
Matrix: SOIL
Inst. ID: GC90 20C
ColumnID: DB-608
Revision: 12/08/08 12:20
Col Type: Primary

Sample Size: 30 g
%Moisture: 28.6
TestCode: 8082S

Lab ID: 0811131-002D
Client Sample ID: *Ith-4 (6-12)*
Collection Date: 11/18/08 9:20
Date Received: 11/18/08 16:28
PrepDate: 11/21/08 11:03
BatchNo: 8506/R15633
FileID: 1-SAMP-E:\90dec08\C120113.r

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD					SW8082		(SW3550B)
Aroclor 1016	ND		0.0119	0.00153	mg/Kg-dry	1	12/01/08 19:14
Aroclor 1221	ND		0.0119	0.00155	mg/Kg-dry	1	12/01/08 19:14
Aroclor 1232	ND		0.0119	0.00095	mg/Kg-dry	1	12/01/08 19:14
Aroclor 1242	ND		0.0119	0.00128	mg/Kg-dry	1	12/01/08 19:14
Aroclor 1248	ND		0.0119	0.00250	mg/Kg-dry	1	12/01/08 19:14
Aroclor 1254	0.0466		0.0119	0.00332	mg/Kg-dry	1	12/01/08 19:14
Aroclor 1260	ND		0.0119	0.00140	mg/Kg-dry	1	12/01/08 19:14
Surr: Tetrachloro-m-xylene	71		44-134	0	%REC	1	12/01/08 19:14
Surr: Decachlorobiphenyl	46		36-141	0	%REC	1	12/01/08 19:14

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811131-002D
Project: Ithaca Dredging	Client Sample ID: <i>Ith-4 (6-12)</i>
W Order: 0811131	Collection Date: 11/18/08 9:20
Matrix: SOIL	Date Received: 11/18/08 16:28
Inst. ID: GC90 20D	PrepDate: 11/21/08 11:03
ColumnID: DB-1701	BatchNo: 8506/R15711
Revision: 12/08/08 12:33	FileID: 1-SAMP-E:\90dec08\D120112.r
Col Type: Confirm	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD					SW8082		(SW3550B)
Aroclor 1016	ND	0.0119	0.00153	mg/Kg-dry	1	12/01/08 18:42	
Aroclor 1221	ND	0.0119	0.00155	mg/Kg-dry	1	12/01/08 18:42	
Aroclor 1232	ND	0.0119	0.00095	mg/Kg-dry	1	12/01/08 18:42	
Aroclor 1242	ND	0.0119	0.00128	mg/Kg-dry	1	12/01/08 18:42	
Aroclor 1248	ND	0.0119	0.00250	mg/Kg-dry	1	12/01/08 18:42	
Aroclor 1254	0.0423	0.0119	0.00332	mg/Kg-dry	1	12/01/08 18:42	
Aroclor 1260	ND	0.0119	0.00140	mg/Kg-dry	1	12/01/08 18:42	
Surr: Tetrachloro-m-xylene	75	44-134	0	%REC	1	12/01/08 18:42	
Surr: Decachlorobiphenyl	39	36-141	0	%REC	1	12/01/08 18:42	

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering

Project: Ithaca Dredging

W Order: 0811131

Matrix: SOIL

Inst. ID: GC90 20C

ColumnID: DB-608

Revision: 12/08/08 12:20

Col Type: Primary

Sample Size: 30 g

%Moisture: 31.9

TestCode: 8082S

Lab ID: 0811131-003D

Client Sample ID: *Ith-2 (6-10)*

Collection Date: 11/18/08 10:10

Date Received: 11/18/08 16:28

PrepDate: 11/21/08 11:03

BatchNo: 8506/R15633

FileID: 1-SAMP-E:\90dec08\C120114.r

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD					SW8082		(SW3550B)
Aroclor 1016	ND		0.0125	0.00161	mg/Kg-dry	1	12/01/08 19:46
Aroclor 1221	ND		0.0125	0.00163	mg/Kg-dry	1	12/01/08 19:46
Aroclor 1232	ND		0.0125	0.00099	mg/Kg-dry	1	12/01/08 19:46
Aroclor 1242	ND		0.0125	0.00134	mg/Kg-dry	1	12/01/08 19:46
Aroclor 1248	ND		0.0125	0.00262	mg/Kg-dry	1	12/01/08 19:46
Aroclor 1254	0.0324		0.0125	0.00348	mg/Kg-dry	1	12/01/08 19:46
Aroclor 1260	ND		0.0125	0.00147	mg/Kg-dry	1	12/01/08 19:46
Surr: Tetrachloro-m-xylene	60		44-134	0	%REC	1	12/01/08 19:46
Surr: Decachlorobiphenyl	43		36-141	0	%REC	1	12/01/08 19:46

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering
Project: Ithaca Dredging
W Order: 0811131
Matrix: SOIL
Inst. ID: GC90 20D
ColumnID: DB-1701
Revision: 12/08/08 12:33
Col Type: Confirm

Sample Size: 30 g
%Moisture: 31.9
TestCode: 8082S

Lab ID: 0811131-003D
Client Sample ID: *Ith-2 (6-10)*
Collection Date: 11/18/08 10:10
Date Received: 11/18/08 16:28
PrepDate: 11/21/08 11:03
BatchNo: 8506/R15711
FileID: 1-SAMP-E:\90dec08\120113.r

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD					SW8082		(SW3550B)
Aroclor 1016	ND		0.0125	0.00161	mg/Kg-dry	1	12/01/08 19:14
Aroclor 1221	ND		0.0125	0.00163	mg/Kg-dry	1	12/01/08 19:14
Aroclor 1232	ND		0.0125	0.00099	mg/Kg-dry	1	12/01/08 19:14
Aroclor 1242	ND		0.0125	0.00134	mg/Kg-dry	1	12/01/08 19:14
Aroclor 1248	ND		0.0125	0.00262	mg/Kg-dry	1	12/01/08 19:14
Aroclor 1254	0.0294		0.0125	0.00348	mg/Kg-dry	1	12/01/08 19:14
Aroclor 1260	ND		0.0125	0.00147	mg/Kg-dry	1	12/01/08 19:14
Surr: Tetrachloro-m-xylene	60		44-134	0	%REC	1	12/01/08 19:14
Surr: Decachlorobiphenyl	36		36-141	0	%REC	1	12/01/08 19:14

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering

Project: Ithaca Dredging

W Order: 0811131

Matrix: SOIL

Inst. ID: GC90 20C

Sample Size: 30 g

ColumnID: DB-608

%Moisture: 34.5

Revision: 12/08/08 12:20

TestCode: 8082S

Col Type: Primary

Lab ID: 0811131-004D

Client Sample ID: *Ith-2 (10-14)*

Collection Date: 11/18/08 10:20

Date Received: 11/18/08 16:28

PrepDate: 11/21/08 11:03

BatchNo: 8506/R15633

FileID: 1-SAMP-E:\90dec08\C120115.r

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD					SW8082		(SW3550B)
Aroclor 1016	ND	0.0130	0.00167	mg/Kg-dry	1	12/01/08 20:19	
Aroclor 1221	ND	0.0130	0.00169	mg/Kg-dry	1	12/01/08 20:19	
Aroclor 1232	ND	0.0130	0.00103	mg/Kg-dry	1	12/01/08 20:19	
Aroclor 1242	ND	0.0130	0.00140	mg/Kg-dry	1	12/01/08 20:19	
Aroclor 1248	ND	0.0130	0.00273	mg/Kg-dry	1	12/01/08 20:19	
Aroclor 1254	0.0170	0.0130	0.00362	mg/Kg-dry	1	12/01/08 20:19	
Aroclor 1260	ND	0.0130	0.00153	mg/Kg-dry	1	12/01/08 20:19	
Surr: Tetrachloro-m-xylene	73	44-134	0	%REC	1	12/01/08 20:19	
Surr: Decachlorobiphenyl	44	36-141	0	%REC	1	12/01/08 20:19	

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering

Project: Ithaca Dredging

W Order: 0811131

Matrix: SOIL

Inst. ID: GC90 20D

Sample Size: 30 g

ColumnID: DB-1701

%Moisture: 34.5

Revision: 12/08/08 12:33

TestCode: 8082S

Col Type: Confirm

Lab ID: 0811131-004D

Client Sample ID: Ith-2 (10-14)

Collection Date: 11/18/08 10:20

Date Received: 11/18/08 16:28

PrepDate: 11/21/08 11:03

BatchNo: 8506/R15711

FileID: I-SAMP-E:\90dec08\D120114.r

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD					SW8082		(SW3550B)
Aroclor 1016	ND		0.0130	0.00167	mg/Kg-dry	1	12/01/08 19:46
Aroclor 1221	ND		0.0130	0.00169	mg/Kg-dry	1	12/01/08 19:46
Aroclor 1232	ND		0.0130	0.00103	mg/Kg-dry	1	12/01/08 19:46
Aroclor 1242	ND		0.0130	0.00140	mg/Kg-dry	1	12/01/08 19:46
Aroclor 1248	ND		0.0130	0.00273	mg/Kg-dry	1	12/01/08 19:46
Aroclor 1254	0.0152		0.0130	0.00362	mg/Kg-dry	1	12/01/08 19:46
Aroclor 1260	ND		0.0130	0.00153	mg/Kg-dry	1	12/01/08 19:46
Surr: Tetrachloro-m-xylene	76		44-134	0	%REC	1	12/01/08 19:46
Surr: Decachlorobiphenyl	38		36-141	0	%REC	1	12/01/08 19:46

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering
Project: Ithaca Dredging
W Order: 0811131
Matrix: SOIL
Inst. ID: GC90 20C **Sample Size:** 30 g
ColumnID: DB-608 **%Moisture:** 30.4
Revision: 12/08/08 12:20 **TestCode:** 8082S
Col Type: Primary

Lab ID: 0811131-005D
Client Sample ID: *Ith-6 (6-10)*
Collection Date: 11/18/08 14:10
Date Received: 11/18/08 16:28
PrepDate: 11/21/08 11:03
BatchNo: 8506/R15633
FileID: 1-SAMP-E:\90dec08\C120116.r

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD					SW8082		(SW3550B)
Aroclor 1016	ND	0.0122	0.00157	mg/Kg-dry	1	12/01/08 20:51	
Aroclor 1221	ND	0.0122	0.00159	mg/Kg-dry	1	12/01/08 20:51	
Aroclor 1232	ND	0.0122	0.00097	mg/Kg-dry	1	12/01/08 20:51	
Aroclor 1242	ND	0.0122	0.00131	mg/Kg-dry	1	12/01/08 20:51	
Aroclor 1248	ND	0.0122	0.00256	mg/Kg-dry	1	12/01/08 20:51	
Aroclor 1254	ND	0.0122	0.00341	mg/Kg-dry	1	12/01/08 20:51	
Aroclor 1260	ND	0.0122	0.00144	mg/Kg-dry	1	12/01/08 20:51	
Surr: Tetrachloro-m-xylene	80	44-134	0	%REC	1	12/01/08 20:51	
Surr: Decachlorobiphenyl	48	36-141	0	%REC	1	12/01/08 20:51	

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811131-006D
Project: Ithaca Dredging	Client Sample ID: <i>Ith-6 (10-14)</i>
W Order: 0811131	Collection Date: 11/18/08 14:20
Matrix: SOIL	Date Received: 11/18/08 16:28
Inst. ID: GC90 20C	PrepDate: 11/21/08 11:03
ColumnID: DB-608	BatchNo: 8506/R15633
Revision: 12/08/08 12:20	FileID: 1-SAMP-E:\90dec08\C120117.r
Col Type: Primary	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD					SW8082		(SW3550B)
Aroclor 1016	ND	0.0130	0.00168	mg/Kg-dry	1	12/01/08 21:24	
Aroclor 1221	ND	0.0130	0.00170	mg/Kg-dry	1	12/01/08 21:24	
Aroclor 1232	ND	0.0130	0.00103	mg/Kg-dry	1	12/01/08 21:24	
Aroclor 1242	ND	0.0130	0.00140	mg/Kg-dry	1	12/01/08 21:24	
Aroclor 1248	ND	0.0130	0.00273	mg/Kg-dry	1	12/01/08 21:24	
Aroclor 1254	ND	0.0130	0.00363	mg/Kg-dry	1	12/01/08 21:24	
Aroclor 1260	ND	0.0130	0.00153	mg/Kg-dry	1	12/01/08 21:24	
Sur: Tetrachloro-m-xylene	79	44-134	0	%REC	1	12/01/08 21:24	
Sur: Decachlorobiphenyl	47	36-141	0	%REC	1	12/01/08 21:24	

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering

Project: Ithaca Dredging

W Order: 0811142

Matrix: SOIL

Inst. ID: GC90 20C

ColumnID: DB-608

Revision: 12/08/08 12:20

Col Type: Primary

Sample Size: 30 g

%Moisture: 38.2

TestCode: 8082S

Lab ID: 0811142-001D

Client Sample ID: *Ith-8 (2-10)*

Collection Date: 11/19/08 14:30

Date Received: 11/20/08 9:25

PrepDate: 11/21/08 11:03

BatchNo: 8506/R15633

FileID: 1-SAMP-E:\90dec08\C120118.r

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD					SW8082		(SW3550B)
Aroclor 1016	ND		0.0138	0.00177	mg/Kg-dry	1	12/01/08 21:58
Aroclor 1221	ND		0.0138	0.00180	mg/Kg-dry	1	12/01/08 21:58
Aroclor 1232	ND		0.0138	0.00109	mg/Kg-dry	1	12/01/08 21:58
Aroclor 1242	ND		0.0138	0.00148	mg/Kg-dry	1	12/01/08 21:58
Aroclor 1248	ND		0.0138	0.00289	mg/Kg-dry	1	12/01/08 21:58
Aroclor 1254	0.0395		0.0138	0.00383	mg/Kg-dry	1	12/01/08 21:58
Aroclor 1260	ND		0.0138	0.00162	mg/Kg-dry	1	12/01/08 21:58
Surr: Tetrachloro-m-xylene	67		44-134	0	%REC	1	12/01/08 21:58
Surr: Decachlorobiphenyl	45		36-141	0	%REC	1	12/01/08 21:58

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811142-001D
Project: Ithaca Dredging	Client Sample ID: <i>Ith-8 (2-10)</i>
W Order: 0811142	Collection Date: 11/19/08 14:30
Matrix: SOIL	Date Received: 11/20/08 9:25
Inst. ID: GC90 20D	PrepDate: 11/21/08 11:03
ColumnID: DB-1701	BatchNo: 8506/R15711
Revision: 12/08/08 12:33	FileID: 1-SAMP-E:\90dec08\D120117.r
Col Type: Confirm	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD					SW8082		(SW3550B)
Aroclor 1016	ND		0.0138	0.00177	mg/Kg-dry	1	12/01/08 21:24
Aroclor 1221	ND		0.0138	0.00180	mg/Kg-dry	1	12/01/08 21:24
Aroclor 1232	ND		0.0138	0.00109	mg/Kg-dry	1	12/01/08 21:24
Aroclor 1242	ND		0.0138	0.00148	mg/Kg-dry	1	12/01/08 21:24
Aroclor 1248	ND		0.0138	0.00289	mg/Kg-dry	1	12/01/08 21:24
Aroclor 1254	0.0361		0.0138	0.00383	mg/Kg-dry	1	12/01/08 21:24
Aroclor 1260	ND		0.0138	0.00162	mg/Kg-dry	1	12/01/08 21:24
Surr: Tetrachloro-m-xylene	68		44-134	0	%REC	1	12/01/08 21:24
Surr: Decachlorobiphenyl	36		36-141	0	%REC	1	12/01/08 21:24

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering

Project: Ithaca Dredging

W Order: 0811142

Matrix: SOIL

Inst. ID: GC90 20C

Sample Size: 30 g

ColumnID: DB-608

%Moisture: 31.3

Revision: 12/08/08 12:20

TestCode: 8082S

Col Type: Primary

Lab ID: 0811142-002D

Client Sample ID: *Ith-8 (10-14)*

Collection Date: 11/19/08 14:45

Date Received: 11/20/08 9:25

PrepDate: 11/21/08 11:03

BatchNo: 8506/R15633

FileID: 1-SAMP-E:\90dec08\C120119.r

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD					SW8082		(SW3550B)
Aroclor 1016	ND		0.0124	0.00159	mg/Kg-dry	1	12/01/08 22:31
Aroclor 1221	ND		0.0124	0.00162	mg/Kg-dry	1	12/01/08 22:31
Aroclor 1232	ND		0.0124	0.00098	mg/Kg-dry	1	12/01/08 22:31
Aroclor 1242	ND		0.0124	0.00133	mg/Kg-dry	1	12/01/08 22:31
Aroclor 1248	ND		0.0124	0.00260	mg/Kg-dry	1	12/01/08 22:31
Aroclor 1254	ND		0.0124	0.00345	mg/Kg-dry	1	12/01/08 22:31
Aroclor 1260	ND		0.0124	0.00146	mg/Kg-dry	1	12/01/08 22:31
Surr: Tetrachloro-m-xylene	70		44-134	0	%REC	1	12/01/08 22:31
Surr: Decachlorobiphenyl	41		36-141	0	%REC	1	12/01/08 22:31

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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East Syracuse, NY 13057

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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811142-003D
Project: Ithaca Dredging	Client Sample ID: <i>Ith-7 (1-14)</i>
W Order: 0811142	Collection Date: 11/19/08 13:50
Matrix: SOIL	Date Received: 11/20/08 9:25
Inst. ID: GC90 20C	PrepDate: 11/21/08 11:03
ColumnID: DB-608	BatchNo: 8506/R15633
Revision: 12/08/08 12:20	FileID: 1-SAMP-E:\90dec08\C120120.r
Col Type: Primary	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD					SW8082		(SW3550B)
Aroclor 1016	ND	0.0122	0.00157	mg/Kg-dry	1	12/01/08 23:03	
Aroclor 1221	ND	0.0122	0.00159	mg/Kg-dry	1	12/01/08 23:03	
Aroclor 1232	ND	0.0122	0.00097	mg/Kg-dry	1	12/01/08 23:03	
Aroclor 1242	ND	0.0122	0.00131	mg/Kg-dry	1	12/01/08 23:03	
Aroclor 1248	ND	0.0122	0.00256	mg/Kg-dry	1	12/01/08 23:03	
Aroclor 1254	0.0345	0.0122	0.00340	mg/Kg-dry	1	12/01/08 23:03	
Aroclor 1260	ND	0.0122	0.00143	mg/Kg-dry	1	12/01/08 23:03	
Surr: Tetrachloro-m-xylene	66	44-134	0	%REC	1	12/01/08 23:03	
Surr: Decachlorobiphenyl	47	36-141	0	%REC	1	12/01/08 23:03	

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering

Project: Ithaca Dredging

W Order: 0811142

Matrix: SOIL

Inst. ID: GC90 20D

ColumnID: DB-1701

Revision: 12/08/08 12:33

Col Type: Confirm

Sample Size: 30 g

%Moisture: 30.2

TestCode: 8082S

Lab ID: 0811142-003D

Client Sample ID: *Ith-7 (1-14)*

Collection Date: 11/19/08 13:50

Date Received: 11/20/08 9:25

PrepDate: 11/21/08 11:03

BatchNo: 8506/R15711

FileID: 1-SAMP-E:\90dec08\120119.r

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD					SW8082		(SW3550B)
Aroclor 1016	ND		0.0122	0.00157	mg/Kg-dry	1	12/01/08 22:31
Aroclor 1221	ND		0.0122	0.00159	mg/Kg-dry	1	12/01/08 22:31
Aroclor 1232	ND		0.0122	0.00097	mg/Kg-dry	1	12/01/08 22:31
Aroclor 1242	ND		0.0122	0.00131	mg/Kg-dry	1	12/01/08 22:31
Aroclor 1248	ND		0.0122	0.00256	mg/Kg-dry	1	12/01/08 22:31
Aroclor 1254	0.0427		0.0122	0.00340	mg/Kg-dry	1	12/01/08 22:31
Aroclor 1260	ND		0.0122	0.00143	mg/Kg-dry	1	12/01/08 22:31
Surr: Tetrachloro-m-xylene	66		44-134	0	%REC	1	12/01/08 22:31
Surr: Decachlorobiphenyl	39		36-141	0	%REC	1	12/01/08 22:31

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811142-004D
Project: Ithaca Dredging	Client Sample ID: <i>Ith-5 (4-10)</i>
W Order: 0811142	Collection Date: 11/19/08 12:40
Matrix: SOIL	Date Received: 11/20/08 9:25
Inst. ID: GC90 20C	PrepDate: 11/21/08 11:03
ColumnID: DB-608	BatchNo: 8506/R15633
Revision: 12/08/08 12:20	FileID: 1-SAMP-E:\90dec08\C120121.r
Col Type: Primary	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD					SW8082		(SW3550B)
Aroclor 1016	ND		0.0129	0.00167	mg/Kg-dry 1		12/01/08 23:36
Aroclor 1221	ND		0.0129	0.00169	mg/Kg-dry 1		12/01/08 23:36
Aroclor 1232	ND		0.0129	0.00103	mg/Kg-dry 1		12/01/08 23:36
Aroclor 1242	ND		0.0129	0.00139	mg/Kg-dry 1		12/01/08 23:36
Aroclor 1248	ND		0.0129	0.00272	mg/Kg-dry 1		12/01/08 23:36
Aroclor 1254	0.00509 J		0.0129	0.00361	mg/Kg-dry 1		12/01/08 23:36
Aroclor 1260	ND		0.0129	0.00152	mg/Kg-dry 1		12/01/08 23:36
Surr: Tetrachloro-m-xylene	72		44-134	0	%REC	1	12/01/08 23:36
Surr: Decachlorobiphenyl	44		36-141	0	%REC	1	12/01/08 23:36

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811142-004D
Project: Ithaca Dredging	Client Sample ID: <i>Ith-5 (4-10)</i>
W Order: 0811142	Collection Date: 11/19/08 12:40
Matrix: SOIL	Date Received: 11/20/08 9:25
Inst. ID: GC90 20D	PrepDate: 11/21/08 11:03
ColumnID: DB-1701	BatchNo: 8506/R15711
Revision: 12/08/08 12:33	FileID: 1-SAMP-E:\90dec08\D120120.r
Col Type: Confirm	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD					SW8082		(SW3550B)
Aroclor 1016	ND	0.0129	0.00167	mg/Kg-dry	1	12/01/08 23:03	
Aroclor 1221	ND	0.0129	0.00169	mg/Kg-dry	1	12/01/08 23:03	
Aroclor 1232	ND	0.0129	0.00103	mg/Kg-dry	1	12/01/08 23:03	
Aroclor 1242	ND	0.0129	0.00139	mg/Kg-dry	1	12/01/08 23:03	
Aroclor 1248	ND	0.0129	0.00272	mg/Kg-dry	1	12/01/08 23:03	
Aroclor 1254	0.00546J	0.0129	0.00361	mg/Kg-dry	1	12/01/08 23:03	
Aroclor 1260	ND	0.0129	0.00152	mg/Kg-dry	1	12/01/08 23:03	
Surr: Tetrachloro-m-xylene	76	44-134	0	%REC	1	12/01/08 23:03	
Surr: Decachlorobiphenyl	38	36-141	0	%REC	1	12/01/08 23:03	

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811142-005D
Project: Ithaca Dredging	Client Sample ID: <i>Ith-5 (10-14)</i>
W Order: 0811142	Collection Date: 11/19/08 12:50
Matrix: SOIL	Date Received: 11/20/08 9:25
Inst. ID: GC90 20C	Sample Size: 30 g
ColumnID: DB-608	%Moisture: 29.0
Revision: 12/08/08 12:20	TestCode: 8082S
Col Type: Primary	PrepDate: 11/21/08 11:03
	BatchNo: 8506/R15633
	FileID: 1-SAMP-E:\90dec08\C120126.r

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD					SW8082		(SW3550B)
Aroclor 1016	ND		0.0120	0.00154	mg/Kg-dry 1		12/02/08 2:17
Aroclor 1221	ND		0.0120	0.00156	mg/Kg-dry 1		12/02/08 2:17
Aroclor 1232	ND		0.0120	0.00095	mg/Kg-dry 1		12/02/08 2:17
Aroclor 1242	ND		0.0120	0.00129	mg/Kg-dry 1		12/02/08 2:17
Aroclor 1248	ND		0.0120	0.00251	mg/Kg-dry 1		12/02/08 2:17
Aroclor 1254	ND		0.0120	0.00334	mg/Kg-dry 1		12/02/08 2:17
Aroclor 1260	ND		0.0120	0.00141	mg/Kg-dry 1		12/02/08 2:17
Surr: Tetrachloro-m-xylene	68		44-134	0	%REC	1	12/02/08 2:17
Surr: Decachlorobiphenyl	41		36-141	0	%REC	1	12/02/08 2:17

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811142-006D
Project: Ithaca Dredging	Client Sample ID: <i>Ith-1 (6-12)</i>
W Order: 0811142	Collection Date: 11/19/08 10:30
Matrix: SOIL	Date Received: 11/20/08 9:25
Inst. ID: GC90 20C	PrepDate: 11/21/08 11:03
ColumnID: DB-608	BatchNo: 8506/R15633
Revision: 12/08/08 12:20	FileID: 1-SAMP-E:\90dec08\C120127.r
Col Type: Primary	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD					SW8082		(SW3550E)
Aroclor 1016	ND	0.0131	0.00168	mg/Kg-dry	1	12/02/08 2:50	
Aroclor 1221	ND	0.0131	0.00171	mg/Kg-dry	1	12/02/08 2:50	
Aroclor 1232	ND	0.0131	0.00104	mg/Kg-dry	1	12/02/08 2:50	
Aroclor 1242	ND	0.0131	0.00141	mg/Kg-dry	1	12/02/08 2:50	
Aroclor 1248	ND	0.0131	0.00274	mg/Kg-dry	1	12/02/08 2:50	
Aroclor 1254	0.0740	0.0131	0.00364	mg/Kg-dry	1	12/02/08 2:50	
Aroclor 1260	ND	0.0131	0.00154	mg/Kg-dry	1	12/02/08 2:50	
Surr: Tetrachloro-m-xylene	63	44-134	0	%REC	1	12/02/08 2:50	
Surr: Decachlorobiphenyl	43	36-141	0	%REC	1	12/02/08 2:50	

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811142-006D
Project: Ithaca Dredging	Client Sample ID: <i>Ith-1 (6-12)</i>
W Order: 0811142	Collection Date: 11/19/08 10:30
Matrix: SOIL	Date Received: 11/20/08 9:25
Inst. ID: GC90 20D	PrepDate: 11/21/08 11:03
ColumnID: DB-1701	BatchNo: 8506/R15711
Revision: 12/08/08 12:33	FileID: 1-SAMP-E:\90dec08\D120126.r
Col Type: Confirm	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD							
Aroclor 1016	ND	0.0131	0.00168	mg/Kg-dry	1		12/02/08 2:17
Aroclor 1221	ND	0.0131	0.00171	mg/Kg-dry	1		12/02/08 2:17
Aroclor 1232	ND	0.0131	0.00104	mg/Kg-dry	1		12/02/08 2:17
Aroclor 1242	ND	0.0131	0.00141	mg/Kg-dry	1		12/02/08 2:17
Aroclor 1248	ND	0.0131	0.00274	mg/Kg-dry	1		12/02/08 2:17
Aroclor 1254	0.0657	0.0131	0.00364	mg/Kg-dry	1		12/02/08 2:17
Aroclor 1260	ND	0.0131	0.00154	mg/Kg-dry	1		12/02/08 2:17
Surr: Tetrachloro-m-xylene	65	44-134	0	%REC	1		12/02/08 2:17
Surr: Decachlorobiphenyl	34 S	36-141	0	%REC	1		12/02/08 2:17

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811142-007D
Project: Ithaca Dredging	Client Sample ID: <i>Ith-Dup1</i>
W Order: 0811142	Collection Date: 11/19/08 0:00
Matrix: SOIL	Date Received: 11/20/08 9:25
Inst. ID: GC90 20C	PrepDate: 11/21/08 11:03
ColumnID: DB-608	BatchNo: 8506/R15633
Revision: 12/08/08 12:20	FileID: 1-SAMP-E:\90dec08\C120128.r
Col Type: Primary	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD					SW8082		(SW3550B)
Aroclor 1016	ND	0.0128	0.00164	mg/Kg-dry	1	12/02/08 3:22	
Aroclor 1221	ND	0.0128	0.00167	mg/Kg-dry	1	12/02/08 3:22	
Aroclor 1232	ND	0.0128	0.00101	mg/Kg-dry	1	12/02/08 3:22	
Aroclor 1242	ND	0.0128	0.00137	mg/Kg-dry	1	12/02/08 3:22	
Aroclor 1248	ND	0.0128	0.00268	mg/Kg-dry	1	12/02/08 3:22	
Aroclor 1254	0.0568	0.0128	0.00356	mg/Kg-dry	1	12/02/08 3:22	
Aroclor 1260	ND	0.0128	0.00150	mg/Kg-dry	1	12/02/08 3:22	
Surr: Tetrachloro-m-xylene	58	44-134	0	%REC	1	12/02/08 3:22	
Surr: Decachlorobiphenyl	38	36-141	0	%REC	1	12/02/08 3:22	

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.
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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811142-007D
Project: Ithaca Dredging	Client Sample ID: <i>Ith-Dup1</i>
W Order: 0811142	Collection Date: 11/19/08 0:00
Matrix: SOIL	Date Received: 11/20/08 9:25
Inst. ID: GC90 20D	PrepDate: 11/21/08 11:03
ColumnID: DB-1701	BatchNo: 8506/R15711
Revision: 12/08/08 12:33	FileID: 1-SAMP-E:\90dec08\120127.r
Col Type: Confirm	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD					SW8082		(SW3550B)
Aroclor 1016	ND		0.0128	0.00164	mg/Kg-dry 1		12/02/08 2:50
Aroclor 1221	ND		0.0128	0.00167	mg/Kg-dry 1		12/02/08 2:50
Aroclor 1232	ND		0.0128	0.00101	mg/Kg-dry 1		12/02/08 2:50
Aroclor 1242	ND		0.0128	0.00137	mg/Kg-dry 1		12/02/08 2:50
Aroclor 1248	ND		0.0128	0.00268	mg/Kg-dry 1		12/02/08 2:50
Aroclor 1254	0.0499		0.0128	0.00356	mg/Kg-dry 1		12/02/08 2:50
Aroclor 1260	ND		0.0128	0.00150	mg/Kg-dry 1		12/02/08 2:50
Surr: Tetrachloro-m-xylene	60		44-134	0	%REC	1	12/02/08 2:50
Surr: Decachlorobiphenyl	32 S		36-141	0	%REC	1	12/02/08 2:50

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering
Project: Ithaca Dredging
W Order: 0811166
Matrix: SOIL
Inst. ID: GC90 20C
ColumnID: DB-608
Revision: 12/15/08 13:04
Col Type: Primary

Sample Size: 30 g
%Moisture: 35.0
TestCode: 8082S

Lab ID: 0811166-001D
Client Sample ID: *Ith-9 (1-14)*
Collection Date: 11/20/08 15:15
Date Received: 11/21/08 16:16
PrepDate: 11/24/08 10:58
BatchNo: 8517/R15806
FileID: I-SAMP-E:\90dec08\C121116.r

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD					SW8082		(SW3550B)
Aroclor 1016	ND	0.0131	0.00168	mg/Kg-dry	1	12/12/08 1:45	
Aroclor 1221	ND	0.0131	0.00171	mg/Kg-dry	1	12/12/08 1:45	
Aroclor 1232	ND	0.0131	0.00104	mg/Kg-dry	1	12/12/08 1:45	
Aroclor 1242	ND	0.0131	0.00141	mg/Kg-dry	1	12/12/08 1:45	
Aroclor 1248	ND	0.0131	0.00275	mg/Kg-dry	1	12/12/08 1:45	
Aroclor 1254	ND	0.0131	0.00365	mg/Kg-dry	1	12/12/08 1:45	
Aroclor 1260	ND	0.0131	0.00154	mg/Kg-dry	1	12/12/08 1:45	
Surr: Tetrachloro-m-xylene	78	44-134	0	%REC	1	12/12/08 1:45	
Surr: Decachlorobiphenyl	57	36-141	0	%REC	1	12/12/08 1:45	

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811166-002D
Project: Ithaca Dredging	Client Sample ID: <i>Ith-10 (1-14)</i>
W Order: 0811166	Collection Date: 11/20/08 14:15
Matrix: SOIL	Date Received: 11/21/08 16:16
Inst. ID: GC90 20C	PrepDate: 11/24/08 10:58
ColumnID: DB-608	BatchNo: 8517/R15806
Revision: 12/15/08 13:04	FileID: 1-SAMP-E:\90dec08\C121117.r
Col Type: Primary	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD					SW8082		(SW3550B)
Aroclor 1016	ND	0.0129	0.00166	mg/Kg-dry	1	12/12/08 2:17	
Aroclor 1221	ND	0.0129	0.00168	mg/Kg-dry	1	12/12/08 2:17	
Aroclor 1232	ND	0.0129	0.00102	mg/Kg-dry	1	12/12/08 2:17	
Aroclor 1242	ND	0.0129	0.00139	mg/Kg-dry	1	12/12/08 2:17	
Aroclor 1248	ND	0.0129	0.00271	mg/Kg-dry	1	12/12/08 2:17	
Aroclor 1254	ND	0.0129	0.00360	mg/Kg-dry	1	12/12/08 2:17	
Aroclor 1260	ND	0.0129	0.00152	mg/Kg-dry	1	12/12/08 2:17	
Surr: Tetrachloro-m-xylene	87	44-134	0	%REC	1	12/12/08 2:17	
Surr: Decachlorobiphenyl	64	36-141	0	%REC	1	12/12/08 2:17	

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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East Syracuse, NY 13057

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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering

Project: Ithaca Dredging

W Order: 0811166

Matrix: SOIL

Inst. ID: GC90 20C

ColumnID: DB-608

Revision: 12/15/08 13:04

Col Type: Primary

Sample Size: 30 g

%Moisture: 32.2

TestCode: 8082S

Lab ID: 0811166-003D

Client Sample ID: *Ith-11 (1-14)*

Collection Date: 11/20/08 12:20

Date Received: 11/21/08 16:16

PrepDate: 11/24/08 10:58

BatchNo: 8517/R15806

FileID: 1-SAMP-E:\90dec08\C121118.r

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD					SW8082		(SW3550B)
Aroclor 1016	ND		0.0125	0.00162	mg/Kg-dry 1		12/12/08 2:49
Aroclor 1221	ND		0.0125	0.00164	mg/Kg-dry 1		12/12/08 2:49
Aroclor 1232	ND		0.0125	0.00100	mg/Kg-dry 1		12/12/08 2:49
Aroclor 1242	ND		0.0125	0.00135	mg/Kg-dry 1		12/12/08 2:49
Aroclor 1248	ND		0.0125	0.00263	mg/Kg-dry 1		12/12/08 2:49
Aroclor 1254	ND		0.0125	0.00350	mg/Kg-dry 1		12/12/08 2:49
Aroclor 1260	ND		0.0125	0.00147	mg/Kg-dry 1		12/12/08 2:49
Surr: Tetrachloro-m-xylene	83		44-134	0	%REC	1	12/12/08 2:49
Surr: Decachlorobiphenyl	59		36-141	0	%REC	1	12/12/08 2:49

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering

Project: Ithaca Dredging

W Order: 0811166

Matrix: SOIL

Inst. ID: GC90 20C

ColumnID: DB-608

Revision: 12/15/08 13:04

Col Type: Primary

Sample Size: 30 g

%Moisture: 36.2

TestCode: 8082S

Lab ID: 0811166-004D

Client Sample ID: *Ith-12 (1-14)*

Collection Date: 11/20/08 10:45

Date Received: 11/21/08 16:16

PrepDate: 11/24/08 10:58

BatchNo: 8517/R15806

FileID: 1-SAMP-E:\90dec08\C121119.r

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD					SW8082		(SW3550B)
Aroclor 1016	ND	0.0133	0.00172	mg/Kg-dry	1	12/12/08 3:22	
Aroclor 1221	ND	0.0133	0.00174	mg/Kg-dry	1	12/12/08 3:22	
Aroclor 1232	ND	0.0133	0.00106	mg/Kg-dry	1	12/12/08 3:22	
Aroclor 1242	ND	0.0133	0.00143	mg/Kg-dry	1	12/12/08 3:22	
Aroclor 1248	ND	0.0133	0.00280	mg/Kg-dry	1	12/12/08 3:22	
Aroclor 1254	ND	0.0133	0.00371	mg/Kg-dry	1	12/12/08 3:22	
Aroclor 1260	ND	0.0133	0.00157	mg/Kg-dry	1	12/12/08 3:22	
Surr: Tetrachloro-m-xylene	86	44-134	0	%REC	1	12/12/08 3:22	
Surr: Decachlorobiphenyl	53	36-141	0	%REC	1	12/12/08 3:22	

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering
Project: Ithaca Dredging
W Order: 0811166
Matrix: SOIL
Inst. ID: GC90 20C
ColumnID: DB-608
Revision: 12/15/08 13:04
Col Type: Primary

Sample Size: 30 g
%Moisture: 25.2
TestCode: 8082S

Lab ID: 0811166-005D
Client Sample ID: *Ith-16 (1-14)*
Collection Date: 11/20/08 9:30
Date Received: 11/21/08 16:16
PrepDate: 11/24/08 10:58
BatchNo: 8517/R15806
FileID: 1-SAMP-E:\90dec08\C121120.r

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD					SW8082		(SW3550B)
Aroclor 1016	ND	0.0114	0.00146	mg/Kg-dry	1	12/12/08 3:54	
Aroclor 1221	ND	0.0114	0.00148	mg/Kg-dry	1	12/12/08 3:54	
Aroclor 1232	ND	0.0114	0.00090	mg/Kg-dry	1	12/12/08 3:54	
Aroclor 1242	ND	0.0114	0.00122	mg/Kg-dry	1	12/12/08 3:54	
Aroclor 1248	ND	0.0114	0.00239	mg/Kg-dry	1	12/12/08 3:54	
Aroclor 1254	ND	0.0114	0.00317	mg/Kg-dry	1	12/12/08 3:54	
Aroclor 1260	ND	0.0114	0.00134	mg/Kg-dry	1	12/12/08 3:54	
Surr: Tetrachloro-m-xylene	84	44-134	0	%REC	1	12/12/08 3:54	
Surr: Decachlorobiphenyl	57	36-141	0	%REC	1	12/12/08 3:54	

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering
Project: Ithaca Dredging
W Order: 0811166
Matrix: SOIL
Inst. ID: GC90 20C
ColumnID: DB-608
Revision: 12/15/08 13:04
Col Type: Primary

Sample Size: 30 g
%Moisture: 25.2
TestCode: 8082S

Lab ID: 0811166-006D
Client Sample ID: *Ith-14 (1-14)*
Collection Date: 11/21/08 9:50
Date Received: 11/21/08 16:16
PrepDate: 11/24/08 10:58
BatchNo: 8517/R15806
FileID: 1-SAMP-E:\90dec08\C121123.r

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD					SW8082		(SW3550B)
Aroclor 1016	ND	0.0114	0.00146	mg/Kg-dry	1	12/12/08 5:31	
Aroclor 1221	ND	0.0114	0.00148	mg/Kg-dry	1	12/12/08 5:31	
Aroclor 1232	ND	0.0114	0.00090	mg/Kg-dry	1	12/12/08 5:31	
Aroclor 1242	ND	0.0114	0.00122	mg/Kg-dry	1	12/12/08 5:31	
Aroclor 1248	ND	0.0114	0.00239	mg/Kg-dry	1	12/12/08 5:31	
Aroclor 1254	ND	0.0114	0.00317	mg/Kg-dry	1	12/12/08 5:31	
Aroclor 1260	ND	0.0114	0.00134	mg/Kg-dry	1	12/12/08 5:31	
Surr: Tetrachloro-m-xylene	84	44-134	0	%REC	1	12/12/08 5:31	
Surr: Decachlorobiphenyl	54	36-141	0	%REC	1	12/12/08 5:31	

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811166-007D
Project: Ithaca Dredging	Client Sample ID: <i>Ith-13 (1-10)</i>
W Order: 0811166	Collection Date: 11/21/08 8:30
Matrix: SOIL	Date Received: 11/21/08 16:16
Inst. ID: GC90 20C	PrepDate: 11/24/08 10:58
ColumnID: DB-608	BatchNo: 8517/R15806
Revision: 12/15/08 13:04	FileID: 1-SAMP-E:\90dec08\C121127.r
Col Type: Primary	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD					SW8082		(SW3550B)
Aroclor 1016	ND		0.0123	0.00158	mg/Kg-dry	1	12/12/08 7:41
Aroclor 1221	ND		0.0123	0.00161	mg/Kg-dry	1	12/12/08 7:41
Aroclor 1232	ND		0.0123	0.00098	mg/Kg-dry	1	12/12/08 7:41
Aroclor 1242	ND		0.0123	0.00132	mg/Kg-dry	1	12/12/08 7:41
Aroclor 1248	ND		0.0123	0.00258	mg/Kg-dry	1	12/12/08 7:41
Aroclor 1254	ND		0.0123	0.00343	mg/Kg-dry	1	12/12/08 7:41
Aroclor 1260	ND		0.0123	0.00145	mg/Kg-dry	1	12/12/08 7:41
Surr: Tetrachloro-m-xylene	77		44-134	0	%REC	1	12/12/08 7:41
Surr: Decachlorobiphenyl	52		36-141	0	%REC	1	12/12/08 7:41

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering
Project: Ithaca Dredging
W Order: 0811166
Matrix: SOIL
Inst. ID: GC90 20C
ColumnID: DB-608
Revision: 12/15/08 13:04
Col Type: Primary

Sample Size: 30 g
%Moisture: 31.1
TestCode: 8082S

Lab ID: 0811166-008D
Client Sample ID: *Ith-13 (10-14)*
Collection Date: 11/21/08 8:40
Date Received: 11/21/08 16:16
PrepDate: 11/24/08 10:58
BatchNo: 8517/R15806
FileID: 1-SAMP-E:\90dec08\C121128.r

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD					SW8082		(SW3550B)
Aroclor 1016	ND		0.0123	0.00159	mg/Kg-dry 1		12/12/08 8:13
Aroclor 1221	ND		0.0123	0.00161	mg/Kg-dry 1		12/12/08 8:13
Aroclor 1232	ND		0.0123	0.00098	mg/Kg-dry 1		12/12/08 8:13
Aroclor 1242	ND		0.0123	0.00133	mg/Kg-dry 1		12/12/08 8:13
Aroclor 1248	ND		0.0123	0.00259	mg/Kg-dry 1		12/12/08 8:13
Aroclor 1254	ND		0.0123	0.00344	mg/Kg-dry 1		12/12/08 8:13
Aroclor 1260	ND		0.0123	0.00145	mg/Kg-dry 1		12/12/08 8:13
Surr: Tetrachloro-m-xylene	108		44-134	0	%REC	1	12/12/08 8:13
Surr: Decachlorobiphenyl	74		36-141	0	%REC	1	12/12/08 8:13

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering

Project: Ithaca Dredging

W Order: 0811166

Matrix: SOIL

Inst. ID: GC90 20C

ColumnID: DB-608

Revision: 12/15/08 13:04

Col Type: Primary

Sample Size: 30 g

%Moisture: 40.0

TestCode: 8082S

Lab ID: 0811166-009D

Client Sample ID: *Ith-1 (I-6)*

Collection Date: 11/20/08 16:00

Date Received: 11/21/08 16:16

PrepDate: 11/24/08 10:58

BatchNo: 8517/R15806

FileID: 1-SAMP-E:\90dec08\C121129.r

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD					SW8082		(SW3550B)
Aroclor 1016	ND	0.0142	0.00182	mg/Kg-dry	1	12/12/08 8:46	
Aroclor 1221	ND	0.0142	0.00185	mg/Kg-dry	1	12/12/08 8:46	
Aroclor 1232	ND	0.0142	0.00113	mg/Kg-dry	1	12/12/08 8:46	
Aroclor 1242	ND	0.0142	0.00152	mg/Kg-dry	1	12/12/08 8:46	
Aroclor 1248	ND	0.0142	0.00298	mg/Kg-dry	1	12/12/08 8:46	
Aroclor 1254	ND	0.0142	0.00395	mg/Kg-dry	1	12/12/08 8:46	
Aroclor 1260	ND	0.0142	0.00167	mg/Kg-dry	1	12/12/08 8:46	
Surr: Tetrachloro-m-xylene	76	44-134	0	%REC	1	12/12/08 8:46	
Surr: Decachlorobiphenyl	52	36-141	0	%REC	1	12/12/08 8:46	

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811166-010D
Project: Ithaca Dredging	Client Sample ID: <i>Ith-DUP2</i>
W Order: 0811166	Collection Date: 11/20/08 0:00
Matrix: SOIL	Date Received: 11/21/08 16:16
Inst. ID: GC90 20C	PrepDate: 11/24/08 10:58
ColumnID: DB-608	BatchNo: 8517/R15806
Revision: 12/15/08 13:04	FileID: 1-SAMP-E:\90dec08\C121130.r
Col Type: Primary	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD					SW8082		(SW3550B)
Aroclor 1016	ND		0.0145	0.00186	mg/Kg-dry	1	12/12/08 9:18
Aroclor 1221	ND		0.0145	0.00189	mg/Kg-dry	1	12/12/08 9:18
Aroclor 1232	ND		0.0145	0.00115	mg/Kg-dry	1	12/12/08 9:18
Aroclor 1242	ND		0.0145	0.00156	mg/Kg-dry	1	12/12/08 9:18
Aroclor 1248	ND		0.0145	0.00304	mg/Kg-dry	1	12/12/08 9:18
Aroclor 1254	ND		0.0145	0.00403	mg/Kg-dry	1	12/12/08 9:18
Aroclor 1260	ND		0.0145	0.00170	mg/Kg-dry	1	12/12/08 9:18
Surr: Tetrachloro-m-xylene	74		44-134	0	%REC	1	12/12/08 9:18
Surr: Decachlorobiphenyl	54		36-141	0	%REC	1	12/12/08 9:18

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811166-011D
Project: Ithaca Dredging	Client Sample ID: <i>Ith-2 (1-6)</i>
W Order: 0811166	Collection Date: 11/20/08 16:10
Matrix: SOIL	Date Received: 11/21/08 16:16
Inst. ID: GC90 20C	PrepDate: 11/24/08 10:58
ColumnID: DB-608	BatchNo: 8517/R15806
Revision: 12/15/08 13:04	FileID: 1-SAMP-E:\90dec08\C121131.r
Col Type: Primary	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD					SW8082		(SW3550B)
Aroclor 1016	ND	0.0162	0.00209	mg/Kg-dry	1	12/12/08 9:50	
Aroclor 1221	ND	0.0162	0.00212	mg/Kg-dry	1	12/12/08 9:50	
Aroclor 1232	ND	0.0162	0.00129	mg/Kg-dry	1	12/12/08 9:50	
Aroclor 1242	ND	0.0162	0.00175	mg/Kg-dry	1	12/12/08 9:50	
Aroclor 1248	ND	0.0162	0.00341	mg/Kg-dry	1	12/12/08 9:50	
Aroclor 1254	ND	0.0162	0.00452	mg/Kg-dry	1	12/12/08 9:50	
Aroclor 1260	ND	0.0162	0.00191	mg/Kg-dry	1	12/12/08 9:50	
Surr: Tetrachloro-m-xylene	72	44-134	0	%REC	1	12/12/08 9:50	
Surr: Decachlorobiphenyl	52	36-141	0	%REC	1	12/12/08 9:50	

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering
Project: Ithaca Dredging
W Order: 0811166
Matrix: SOIL
Inst. ID: GC90 20C
ColumnID: DB-608
Revision: 12/15/08 13:04
Col Type: Primary

Lab ID: 0811166-012D
Client Sample ID: *Ith-3 (I-6)*
Collection Date: 11/20/08 16:15
Date Received: 11/21/08 16:16
PrepDate: 11/24/08 10:58
BatchNo: 8517/R15806
FileID: 1-SAMP-E:\90dec08\C121132.r

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD					SW8082		(SW3550B)
Aroclor 1016	ND		0.0164	0.00212	mg/Kg-dry	1	12/12/08 10:23
Aroclor 1221	ND		0.0164	0.00215	mg/Kg-dry	1	12/12/08 10:23
Aroclor 1232	ND		0.0164	0.00131	mg/Kg-dry	1	12/12/08 10:23
Aroclor 1242	ND		0.0164	0.00177	mg/Kg-dry	1	12/12/08 10:23
Aroclor 1248	ND		0.0164	0.00345	mg/Kg-dry	1	12/12/08 10:23
Aroclor 1254	ND		0.0164	0.00458	mg/Kg-dry	1	12/12/08 10:23
Aroclor 1260	ND		0.0164	0.00193	mg/Kg-dry	1	12/12/08 10:23
Surr: Tetrachloro-m-xylene	71		44-134	0	%REC	1	12/12/08 10:23
Surr: Decachlorobiphenyl	52		36-141	0	%REC	1	12/12/08 10:23

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering
Project: Ithaca Dredging
W Order: 0811166
Matrix: SOIL
Inst. ID: GC90 20C
ColumnID: DB-608
Revision: 12/15/08 13:04
Col Type: Primary

Sample Size: 30 g
%Moisture: 37.0
TestCode: 8082S

Lab ID: 0811166-013D
Client Sample ID: *Ith-4 (1-6)*
Collection Date: 11/20/08 16:20
Date Received: 11/21/08 16:16
PrepDate: 11/24/08 10:58
BatchNo: 8517/R15806
FileID: 1-SAMP-E:\90dec08\C121133.r

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD					SW8082		(SW3550B)
Aroclor 1016	ND		0.0135	0.00174	mg/Kg-dry 1		12/12/08 10:55
Aroclor 1221	ND		0.0135	0.00176	mg/Kg-dry 1		12/12/08 10:55
Aroclor 1232	ND		0.0135	0.00107	mg/Kg-dry 1		12/12/08 10:55
Aroclor 1242	ND		0.0135	0.00145	mg/Kg-dry 1		12/12/08 10:55
Aroclor 1248	ND		0.0135	0.00283	mg/Kg-dry 1		12/12/08 10:55
Aroclor 1254	ND		0.0135	0.00376	mg/Kg-dry 1		12/12/08 10:55
Aroclor 1260	ND		0.0135	0.00159	mg/Kg-dry 1		12/12/08 10:55
Surr: Tetrachloro-m-xylene	82		44-134	0	%REC	1	12/12/08 10:55
Surr: Decachlorobiphenyl	57		36-141	0	%REC	1	12/12/08 10:55

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering
Project: Ithaca Dredging
W Order: 0811166
Matrix: SOIL
Inst. ID: GC90 20C
ColumnID: DB-608
Revision: 12/15/08 13:04
Col Type: Primary

Sample Size: 30 g
%Moisture: 39.7
TestCode: 8082S

Lab ID: 0811166-014D
Client Sample ID: *Ith-6 (1-6)*
Collection Date: 11/20/08 16:25
Date Received: 11/21/08 16:16
PrepDate: 11/24/08 10:58
BatchNo: 8517/R15806
FileID: 1-SAMP-E:\90dec08\C121134.r

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD					SW8082		(SW3550B)
Aroclor 1016	ND	0.0141	0.00182	mg/Kg-dry	1	12/12/08 11:28	
Aroclor 1221	ND	0.0141	0.00184	mg/Kg-dry	1	12/12/08 11:28	
Aroclor 1232	ND	0.0141	0.00112	mg/Kg-dry	1	12/12/08 11:28	
Aroclor 1242	ND	0.0141	0.00152	mg/Kg-dry	1	12/12/08 11:28	
Aroclor 1248	ND	0.0141	0.00296	mg/Kg-dry	1	12/12/08 11:28	
Aroclor 1254	ND	0.0141	0.00393	mg/Kg-dry	1	12/12/08 11:28	
Aroclor 1260	ND	0.0141	0.00166	mg/Kg-dry	1	12/12/08 11:28	
Surr: Tetrachloro-m-xylene	76	44-134	0	%REC	1	12/12/08 11:28	
Surr: Decachlorobiphenyl	53	36-141	0	%REC	1	12/12/08 11:28	

Qualifiers:		
*	Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering

Project: Ithaca Dredging

W Order: 0811131

Matrix: SOIL

Inst. ID: ICAP 61E

ColumnID:

Revision: 12/05/08 8:41

Col Type:

Sample Size: 0.5 g

%Moisture: 24.7

TestCode: 6010S

Lab ID: 0811131-001D

Client Sample ID: *Ith-3 (6-12)*

Collection Date: 11/17/08 14:50

Date Received: 11/18/08 16:28

PrepDate: 12/02/08 10:09

BatchNo: 8538/R15689

FileID: 1-SAMP-95680

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP					SW6010B		(SW3050B)
Arsenic	2.1		1.3	0.53	mg/Kg-dry 1		12/03/08 15:57
Cadmium	ND		0.66	0.13	mg/Kg-dry 1		12/03/08 15:57
Chromium	7.6		1.3	0.53	mg/Kg-dry 1		12/03/08 15:57
Copper	7.3		1.3	0.27	mg/Kg-dry 1		12/03/08 15:57
Lead	4.1		1.3	0.53	mg/Kg-dry 1		12/03/08 15:57
Nickel	10		6.6	0.27	mg/Kg-dry 1		12/03/08 15:57
Zinc	31		2.7	0.53	mg/Kg-dry 1		12/03/08 15:57

Qualifiers:		
*	Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits

Print Date: 12/11/08 15:25

408598

Project Supervisor: Anthony Crescenzi



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(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering

Project: Ithaca Dredging

W Order: 0811131

Matrix: SOIL

Inst. ID: ICAP 61E

ColumnID:

Revision: 12/05/08 8:41

Col Type:

Sample Size: 0.5 g

%Moisture: 28.6

TestCode: 6010S

Lab ID: 0811131-002D

Client Sample ID: *Ith-4 (6-12)*

Collection Date: 11/18/08 9:20

Date Received: 11/18/08 16:28

PrepDate: 12/02/08 10:09

BatchNo: 8538/R15689

FileID: 1-SAMP-95681

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP					SW6010B		(SW3050B)
Arsenic	2.2	1.4		0.56	mg/Kg-dry	1	12/03/08 16:00
Cadmium	ND	0.70		0.14	mg/Kg-dry	1	12/03/08 16:00
Chromium	10	1.4		0.56	mg/Kg-dry	1	12/03/08 16:00
Copper	12	1.4		0.28	mg/Kg-dry	1	12/03/08 16:00
Lead	8.4	1.4		0.56	mg/Kg-dry	1	12/03/08 16:00
Nickel	14	7.0		0.28	mg/Kg-dry	1	12/03/08 16:00
Zinc	46	2.8		0.56	mg/Kg-dry	1	12/03/08 16:00

Qualifiers:		
*	Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering

Project: Ithaca Dredging

W Order: 0811131

Matrix: SOIL

Inst. ID: ICAP 61E

ColumnID:

Revision: 12/05/08 8:41

Col Type:

Sample Size: 0.5 g

%Moisture: 31.9

TestCode: 6010S

Lab ID: 0811131-003D

Client Sample ID: *Ith-2 (6-10)*

Collection Date: 11/18/08 10:10

Date Received: 11/18/08 16:28

PrepDate: 12/02/08 10:09

BatchNo: 8538/R15689

FileID: 1-SAMP-95682

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP					SW6010B		(SW3050B)
Arsenic	2.8	1.5		0.59	mg/Kg-dry	1	12/03/08 16:04
Cadmium	ND	0.73		0.15	mg/Kg-dry	1	12/03/08 16:04
Chromium	13	1.5		0.59	mg/Kg-dry	1	12/03/08 16:04
Copper	16	1.5		0.29	mg/Kg-dry	1	12/03/08 16:04
Lead	11	1.5		0.59	mg/Kg-dry	1	12/03/08 16:04
Nickel	19	7.3		0.29	mg/Kg-dry	1	12/03/08 16:04
Zinc	61	2.9		0.59	mg/Kg-dry	1	12/03/08 16:04

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811131-004D
Project: Ithaca Dredging	Client Sample ID: <i>Ith-2 (10-14)</i>
W Order: 0811131	Collection Date: 11/18/08 10:20
Matrix: SOIL	Date Received: 11/18/08 16:28
Inst. ID: ICAP 61E	PrepDate: 12/02/08 10:09
ColumnID:	BatchNo: 8538/R15689
Revision: 12/05/08 8:41	FileID: 1-SAMP-95686
Col Type:	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP					SW6010B		(SW3050B)
Arsenic	3.3		1.5	0.61	mg/Kg-dry 1		12/03/08 16:18
Cadmium	ND		0.76	0.15	mg/Kg-dry 1		12/03/08 16:18
Chromium	12		1.5	0.61	mg/Kg-dry 1		12/03/08 16:18
Copper	15		1.5	0.31	mg/Kg-dry 1		12/03/08 16:18
Lead	7.4		1.5	0.61	mg/Kg-dry 1		12/03/08 16:18
Nickel	18		7.6	0.31	mg/Kg-dry 1		12/03/08 16:18
Zinc	58		3.1	0.61	mg/Kg-dry 1		12/03/08 16:18

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering
Project: Ithaca Dredging
W Order: 0811131
Matrix: SOIL
Inst. ID: ICAP 61E
ColumnID:
Revision: 12/05/08 8:41
Col Type:

Sample Size: 0.5 g
%Moisture: 30.4
TestCode: 6010S

Lab ID: 0811131-005D
Client Sample ID: *Ith-6 (6-10)*
Collection Date: 11/18/08 14:10
Date Received: 11/18/08 16:28
PrepDate: 12/02/08 10:09
BatchNo: 8538/R15689
FileID: 1-SAMP-95687

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP					SW6010B		(SW3050B)
Arsenic	2.3	1.4		0.57	mg/Kg-dry 1		12/03/08 16:22
Cadmium	ND	0.72		0.14	mg/Kg-dry 1		12/03/08 16:22
Chromium	8.2	1.4		0.57	mg/Kg-dry 1		12/03/08 16:22
Copper	11	1.4		0.29	mg/Kg-dry 1		12/03/08 16:22
Lead	7.1	1.4		0.57	mg/Kg-dry 1		12/03/08 16:22
Nickel	12	7.2		0.29	mg/Kg-dry 1		12/03/08 16:22
Zinc	42	2.9		0.57	mg/Kg-dry 1		12/03/08 16:22

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering

Project: Ithaca Dredging

W Order: 0811131

Matrix: SOIL

Inst. ID: ICAP 61E

ColumnID:

Revision: 12/05/08 8:41

Col Type:

Sample Size: 0.5 g

%Moisture: 34.7

TestCode: 6010S

Lab ID: 0811131-006D

Client Sample ID: *Ith-6 (10-14)*

Collection Date: 11/18/08 14:20

Date Received: 11/18/08 16:28

PrepDate: 12/02/08 10:09

BatchNo: 8538/R15689

FileID: 1-SAMP-95688

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP					SW6010B		(SW3050B)
Arsenic	2.5		1.5	0.61	mg/Kg-dry	1	12/03/08 16:25
Cadmium	ND		0.77	0.15	mg/Kg-dry	1	12/03/08 16:25
Chromium	8.7		1.5	0.61	mg/Kg-dry	1	12/03/08 16:25
Copper	11		1.5	0.31	mg/Kg-dry	1	12/03/08 16:25
Lead	5.4		1.5	0.61	mg/Kg-dry	1	12/03/08 16:25
Nickel	13		7.7	0.31	mg/Kg-dry	1	12/03/08 16:25
Zinc	37		3.1	0.61	mg/Kg-dry	1	12/03/08 16:25

Qualifiers:		
*	Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering

Project: Ithaca Dredging

W Order: 0811142

Matrix: SOIL

Inst. ID: ICAP 61E

ColumnID:

Revision: 12/05/08 8:41

Col Type:

Sample Size: 0.5 g

%Moisture: 38.2

TestCode: 6010S

Lab ID: 0811142-001D

Client Sample ID: *Ith-8 (2-10)*

Collection Date: 11/19/08 14:30

Date Received: 11/20/08 9:25

PrepDate: 12/02/08 10:09

BatchNo: 8538/R15689

FileID: 1-SAMP-95689

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP					SW6010B		(SW3050B)
Arsenic	4.2	1.6		0.65	mg/Kg-dry 1		12/03/08 16:29
Cadmium	ND	0.81		0.16	mg/Kg-dry 1		12/03/08 16:29
Chromium	14	1.6		0.65	mg/Kg-dry 1		12/03/08 16:29
Copper	25	1.6		0.32	mg/Kg-dry 1		12/03/08 16:29
Lead	32	1.6		0.65	mg/Kg-dry 1		12/03/08 16:29
Nickel	19	8.1		0.32	mg/Kg-dry 1		12/03/08 16:29
Zinc	80	3.2		0.65	mg/Kg-dry 1		12/03/08 16:29

Qualifiers:		
*	Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering

Project: Ithaca Dredging

W Order: 0811142

Matrix: SOIL

Inst. ID: ICAP 61E

ColumnID:

Revision: 12/05/08 8:41

Col Type:

Sample Size: 0.5 g

%Moisture: 31.3

TestCode: 6010S

Lab ID: 0811142-002D

Client Sample ID: *Ith-8 (10-14)*

Collection Date: 11/19/08 14:45

Date Received: 11/20/08 9:25

PrepDate: 12/02/08 10:09

BatchNo: 8538/R15689

FileID: 1-SAMP-95690

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP					SW6010B		(SW3050B)
Arsenic	2.1		1.5	0.58	mg/Kg-dry	1	12/03/08 16:32
Cadmium	ND		0.73	0.15	mg/Kg-dry	1	12/03/08 16:32
Chromium	8.5		1.5	0.58	mg/Kg-dry	1	12/03/08 16:32
Copper	9.2		1.5	0.29	mg/Kg-dry	1	12/03/08 16:32
Lead	5.0		1.5	0.58	mg/Kg-dry	1	12/03/08 16:32
Nickel	12		7.3	0.29	mg/Kg-dry	1	12/03/08 16:32
Zinc	39		2.9	0.58	mg/Kg-dry	1	12/03/08 16:32

Qualifiers:		
*	Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering

Project: Ithaca Dredging

W Order: 0811142

Matrix: SOIL

Inst. ID: ICAP 61E

ColumnID:

Revision: 12/05/08 8:41

Col Type:

Sample Size: 0.5 g

%Moisture: 30.2

TestCode: 6010S

Lab ID: 0811142-003D

Client Sample ID: *Ith-7 (I-14)*

Collection Date: 11/19/08 13:50

Date Received: 11/20/08 9:25

PrepDate: 12/02/08 10:09

BatchNo: 8538/R15689

FileID: 1-SAMP-95691

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP					SW6010B		(SW3050B)
Arsenic	4.8	1.4		0.57	mg/Kg-dry 1		12/03/08 16:36
Cadmium	ND	0.72		0.14	mg/Kg-dry 1		12/03/08 16:36
Chromium	13	1.4		0.57	mg/Kg-dry 1		12/03/08 16:36
Copper	19	1.4		0.29	mg/Kg-dry 1		12/03/08 16:36
Lead	27	1.4		0.57	mg/Kg-dry 1		12/03/08 16:36
Nickel	18	7.2		0.29	mg/Kg-dry 1		12/03/08 16:36
Zinc	70	2.9		0.57	mg/Kg-dry 1		12/03/08 16:36

Qualifiers:		
*	Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering

Project: Ithaca Dredging

W Order: 0811142

Matrix: SOIL

Inst. ID: ICAP 61E

Sample Size: 0.5 g

ColumnID:

%Moisture: 34.3

Revision: 12/05/08 8:41

TestCode: 6010S

Lab ID: 0811142-004D

Client Sample ID: *Ith-5 (4-10)*

Collection Date: 11/19/08 12:40

Date Received: 11/20/08 9:25

PrepDate: 12/02/08 10:09

BatchNo: 8538/R15689

FileID: 1-SAMP-95692

Col Type:

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP					SW6010B		(SW3050B)
Arsenic	4.0	1.5		0.61	mg/Kg-dry	1	12/03/08 16:39
Cadmium	ND	0.76		0.15	mg/Kg-dry	1	12/03/08 16:39
Chromium	13	1.5		0.61	mg/Kg-dry	1	12/03/08 16:39
Copper	16	1.5		0.30	mg/Kg-dry	1	12/03/08 16:39
Lead	10	1.5		0.61	mg/Kg-dry	1	12/03/08 16:39
Nickel	19	7.6		0.30	mg/Kg-dry	1	12/03/08 16:39
Zinc	57	3.0		0.61	mg/Kg-dry	1	12/03/08 16:39

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits

Print Date: 12/11/08 15:26

408610

Project Supervisor: Anthony Crescenzi



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering
Project: Ithaca Dredging
W Order: 0811142
Matrix: SOIL
Inst. ID: ICAP 61E
ColumnID:
Revision: 12/05/08 8:41
Col Type:

Sample Size: 0.5 g
%Moisture: 29.0
TestCode: 6010S

Lab ID: 0811142-005D
Client Sample ID: *Ith-5 (10-14)*
Collection Date: 11/19/08 12:50
Date Received: 11/20/08 9:25
PrepDate: 12/02/08 10:09
BatchNo: 8538/R15689
FileID: 1-SAMP-95693

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP					SW6010B		(SW3050B)
Arsenic	1.3	J	1.4	0.56	mg/Kg-dry	1	12/03/08 16:43
Cadmium	ND		0.70	0.14	mg/Kg-dry	1	12/03/08 16:43
Chromium	6.8		1.4	0.56	mg/Kg-dry	1	12/03/08 16:43
Copper	4.7		1.4	0.28	mg/Kg-dry	1	12/03/08 16:43
Lead	3.5		1.4	0.56	mg/Kg-dry	1	12/03/08 16:43
Nickel	9.1		7.0	0.28	mg/Kg-dry	1	12/03/08 16:43
Zinc	30		2.8	0.56	mg/Kg-dry	1	12/03/08 16:43

Qualifiers:		
*	Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811142-006D
Project: Ithaca Dredging	Client Sample ID: <i>Ith-1 (6-12)</i>
W Order: 0811142	Collection Date: 11/19/08 10:30
Matrix: SOIL	Date Received: 11/20/08 9:25
Inst. ID: ICAP 61E	PrepDate: 12/02/08 10:09
ColumnID:	BatchNo: 8538/R15689
Revision: 12/05/08 8:41	FileID: 1-SAMP-95694
Col Type:	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP							(SW3050B)
Arsenic	6.5		1.5	0.61	mg/Kg-dry	1	12/03/08 16:47
Cadmium	0.29	J	0.77	0.15	mg/Kg-dry	1	12/03/08 16:47
Chromium	19		1.5	0.61	mg/Kg-dry	1	12/03/08 16:47
Copper	31		1.5	0.31	mg/Kg-dry	1	12/03/08 16:47
Lead	32		1.5	0.61	mg/Kg-dry	1	12/03/08 16:47
Nickel	26		7.7	0.31	mg/Kg-dry	1	12/03/08 16:47
Zinc	98		3.1	0.61	mg/Kg-dry	1	12/03/08 16:47

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering
Project: Ithaca Dredging
W Order: 0811142
Matrix: SOIL
Inst. ID: ICAP 61E
ColumnID:
Revision: 12/05/08 8:41
Col Type:

Sample Size: 0.5 g
%Moisture: 33.4
TestCode: 6010S

Lab ID: 0811142-007D
Client Sample ID: *Ith-Dup1*
Collection Date: 11/19/08 0:00
Date Received: 11/20/08 9:25
PrepDate: 12/02/08 10:09
BatchNo: 8538/R15689
FileID: 1-SAMP-95695

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP					SW6010B		(SW3050B)
Arsenic	6.8	1.5		0.60	mg/Kg-dry 1		12/03/08 16:50
Cadmium	ND	0.75		0.15	mg/Kg-dry 1		12/03/08 16:50
Chromium	18	1.5		0.60	mg/Kg-dry 1		12/03/08 16:50
Copper	28	1.5		0.30	mg/Kg-dry 1		12/03/08 16:50
Lead	30	1.5		0.60	mg/Kg-dry 1		12/03/08 16:50
Nickel	25	7.5		0.30	mg/Kg-dry 1		12/03/08 16:50
Zinc	94	3.0		0.60	mg/Kg-dry 1		12/03/08 16:50

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering

Project: Ithaca Dredging

W Order: 0811166

Matrix: SOIL

Inst. ID: ICAP 61E

ColumnID:

Revision: 12/05/08 8:41

Col Type:

Sample Size: 0.5 g

%Moisture: 35.0

TestCode: 6010S

Lab ID: 0811166-001D

Client Sample ID: *Ith-9 (1-14)*

Collection Date: 11/20/08 15:15

Date Received: 11/21/08 16:16

PrepDate: 12/02/08 10:11

BatchNo: 8539/R15689

FileID: 1-SAMP-95652

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP					SW6010B		(SW3050B)
Arsenic	3.2		1.5	0.62	mg/Kg-dry 1		12/03/08 12:22
Cadmium	ND		0.77	0.15	mg/Kg-dry 1		12/03/08 12:22
Chromium	11		1.5	0.62	mg/Kg-dry 1		12/03/08 12:22
Copper	16		1.5	0.31	mg/Kg-dry 1		12/03/08 12:22
Lead	9.3		1.5	0.62	mg/Kg-dry 1		12/03/08 12:22
Nickel	16		7.7	0.31	mg/Kg-dry 1		12/03/08 12:22
Zinc	48		3.1	0.62	mg/Kg-dry 1		12/03/08 12:22

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- R Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering

Project: Ithaca Dredging

W Order: 0811166

Matrix: SOIL

Inst. ID: ICAP 61E

ColumnID:

Revision: 12/05/08 8:41

Col Type:

Sample Size: 0.5 g

%Moisture: 34.1

TestCode: 6010S

Lab ID: 0811166-002D

Client Sample ID: *Ith-10 (1-14)*

Collection Date: 11/20/08 14:15

Date Received: 11/21/08 16:16

PrepDate: 12/02/08 10:11

BatchNo: 8539/R15689

FileID: 1-SAMP-95653

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP					SW6010B		(SW3050B)
Arsenic	3.0		1.5	0.61	mg/Kg-dry	1	12/03/08 12:26
Cadmium	ND		0.76	0.15	mg/Kg-dry	1	12/03/08 12:26
Chromium	9.9		1.5	0.61	mg/Kg-dry	1	12/03/08 12:26
Copper	14		1.5	0.30	mg/Kg-dry	1	12/03/08 12:26
Lead	8.2		1.5	0.61	mg/Kg-dry	1	12/03/08 12:26
Nickel	14		7.6	0.30	mg/Kg-dry	1	12/03/08 12:26
Zinc	42		3.0	0.61	mg/Kg-dry	1	12/03/08 12:26

Qualifiers:		
*	Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits

Print Date: 12/11/08 15:29

408572

Project Supervisor: Anthony Crescenzi



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering

Project: Ithaca Dredging

W Order: 0811166

Matrix: SOIL

Inst. ID: ICAP 61E

ColumnID:

Revision: 12/05/08 8:41

Col Type:

Sample Size: 0.5 g

%Moisture: 32.2

TestCode: 6010S

Lab ID: 0811166-003D

Client Sample ID: *Ith-11 (I-14)*

Collection Date: 11/20/08 12:20

Date Received: 11/21/08 16:16

PrepDate: 12/02/08 10:11

BatchNo: 8539/R15689

FileID: 1-SAMP-95654

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP					SW6010B		(SW3050B)
Arsenic	2.5	1.5		0.59	mg/Kg-dry 1		12/03/08 12:29
Cadmium	ND	0.74		0.15	mg/Kg-dry 1		12/03/08 12:29
Chromium	10	1.5		0.59	mg/Kg-dry 1		12/03/08 12:29
Copper	15	1.5		0.29	mg/Kg-dry 1		12/03/08 12:29
Lead	7.5	1.5		0.59	mg/Kg-dry 1		12/03/08 12:29
Nickel	15	7.4		0.29	mg/Kg-dry 1		12/03/08 12:29
Zinc	42	2.9		0.59	mg/Kg-dry 1		12/03/08 12:29

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering
Project: Ithaca Dredging
W Order: 0811166
Matrix: SOIL
Inst. ID: ICAP 61E
ColumnID:
Revision: 12/05/08 8:41
Col Type:

Sample Size: 0.5 g
%Moisture: 36.2
TestCode: 6010S

Lab ID: 0811166-004D
Client Sample ID: *Ith-12 (1-14)*
Collection Date: 11/20/08 10:45
Date Received: 11/21/08 16:16
PrepDate: 12/02/08 10:11
BatchNo: 8539/R15689
FileID: 1-SAMP-95655

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP					SW6010B		(SW3050B)
Arsenic	1.9		1.6	0.63	mg/Kg-dry 1		12/03/08 12:33
Cadmium	ND		0.78	0.16	mg/Kg-dry 1		12/03/08 12:33
Chromium	11		1.6	0.63	mg/Kg-dry 1		12/03/08 12:33
Copper	8.5		1.6	0.31	mg/Kg-dry 1		12/03/08 12:33
Lead	8.4		1.6	0.63	mg/Kg-dry 1		12/03/08 12:33
Nickel	16		7.8	0.31	mg/Kg-dry 1		12/03/08 12:33
Zinc	47		3.1	0.63	mg/Kg-dry 1		12/03/08 12:33

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811166-005D
Project: Ithaca Dredging	Client Sample ID: <i>Ith-16 (1-14)</i>
W Order: 0811166	Collection Date: 11/20/08 9:30
Matrix: SOIL	Date Received: 11/21/08 16:16
Inst. ID: ICAP 61E	PrepDate: 12/02/08 10:11
ColumnID:	BatchNo: 8539/R15689
Revision: 12/05/08 8:41	FileID: 1-SAMP-95656
Col Type:	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP					SW6010B		(SW3050B)
Arsenic	2.5		1.3	0.53	mg/Kg-dry	1	12/03/08 12:37
Cadmium	ND		0.67	0.13	mg/Kg-dry	1	12/03/08 12:37
Chromium	10		1.3	0.53	mg/Kg-dry	1	12/03/08 12:37
Copper	8.0		1.3	0.27	mg/Kg-dry	1	12/03/08 12:37
Lead	5.5		1.3	0.53	mg/Kg-dry	1	12/03/08 12:37
Nickel	15		6.7	0.27	mg/Kg-dry	1	12/03/08 12:37
Zinc	43		2.7	0.53	mg/Kg-dry	1	12/03/08 12:37

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering

Project: Ithaca Dredging

W Order: 0811166

Matrix: SOIL

Inst. ID: ICAP 61E

ColumnID:

Revision: 12/05/08 8:41

Col Type:

Sample Size: 0.5 g

%Moisture: 25.2

TestCode: 6010S

Lab ID: 0811166-006D

Client Sample ID: *Ith-14 (1-14)*

Collection Date: 11/21/08 9:50

Date Received: 11/21/08 16:16

PrepDate: 12/02/08 10:11

BatchNo: 8539/R15689

FileID: 1-SAMP-95664

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP					SW6010B		(SW3050B)
Arsenic	3.6	1.3		0.53	mg/Kg-dry	1	12/03/08 13:05
Cadmium	ND	0.67		0.13	mg/Kg-dry	1	12/03/08 13:05
Chromium	13	1.3		0.53	mg/Kg-dry	1	12/03/08 13:05
Copper	12	1.3		0.27	mg/Kg-dry	1	12/03/08 13:05
Lead	6.8	1.3		0.53	mg/Kg-dry	1	12/03/08 13:05
Nickel	20	6.7		0.27	mg/Kg-dry	1	12/03/08 13:05
Zinc	47	2.7		0.53	mg/Kg-dry	1	12/03/08 13:05

Qualifiers:		
*	Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits

Print Date: 12/11/08 15:29

408583

Project Supervisor: Anthony Crescenzi



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering
Project: Ithaca Dredging
W Order: 0811166
Matrix: SOIL
Inst. ID: ICAP 61E
ColumnID:
Revision: 12/05/08 8:41
Col Type:

Sample Size: 0.5 g
%Moisture: 30.9
TestCode: 6010S

Lab ID: 0811166-007D
Client Sample ID: *Ith-13 (1-10)*
Collection Date: 11/21/08 8:30
Date Received: 11/21/08 16:16
PrepDate: 12/02/08 10:11
BatchNo: 8539/R15689
FileID: 1-SAMP-95665

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP					SW6010B		(SW3050B)
Arsenic	3.6	1.4		0.58	mg/Kg-dry 1		12/03/08 13:08
Cadmium	ND	0.72		0.14	mg/Kg-dry 1		12/03/08 13:08
Chromium	12	1.4		0.58	mg/Kg-dry 1		12/03/08 13:08
Copper	12	1.4		0.29	mg/Kg-dry 1		12/03/08 13:08
Lead	7.7	1.4		0.58	mg/Kg-dry 1		12/03/08 13:08
Nickel	17	7.2		0.29	mg/Kg-dry 1		12/03/08 13:08
Zinc	52	2.9		0.58	mg/Kg-dry 1		12/03/08 13:08

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering

Project: Ithaca Dredging

W Order: 0811166

Matrix: SOIL

Inst. ID: ICAP 61E

ColumnID:

Revision: 12/05/08 8:41

Col Type:

Sample Size: 0.5 g

%Moisture: 31.1

TestCode: 6010S

Lab ID: 0811166-008D

Client Sample ID: *Ith-13 (10-14)*

Collection Date: 11/21/08 8:40

Date Received: 11/21/08 16:16

PrepDate: 12/02/08 10:11

BatchNo: 8539/R15689

FileID: 1-SAMP-95666

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP					SW6010B		(SW3050B)
Arsenic	3.9	1.5		0.58	mg/Kg-dry	1	12/03/08 13:12
Cadmium	ND	0.73		0.15	mg/Kg-dry	1	12/03/08 13:12
Chromium	13	1.5		0.58	mg/Kg-dry	1	12/03/08 13:12
Copper	13	1.5		0.29	mg/Kg-dry	1	12/03/08 13:12
Lead	6.2	1.5		0.58	mg/Kg-dry	1	12/03/08 13:12
Nickel	17	7.3		0.29	mg/Kg-dry	1	12/03/08 13:12
Zinc	55	2.9		0.58	mg/Kg-dry	1	12/03/08 13:12

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering

Project: Ithaca Dredging

W Order: 0811166

Matrix: SOIL

Inst. ID: ICAP 61E

ColumnID:

Revision: 12/05/08 8:41

Col Type:

Sample Size: 0.5 g

%Moisture: 40.0

TestCode: 6010S

Lab ID: 0811166-009D

Client Sample ID: *Ith-1 (1-6)*

Collection Date: 11/20/08 16:00

Date Received: 11/21/08 16:16

PrepDate: 12/02/08 10:11

BatchNo: 8539/R15689

FileID: 1-SAMP-95667

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP					SW6010B		(SW3050B)
Arsenic	3.5	1.7		0.67	mg/Kg-dry 1		12/03/08 13:15
Cadmium	ND	0.83		0.17	mg/Kg-dry 1		12/03/08 13:15
Chromium	12	1.7		0.67	mg/Kg-dry 1		12/03/08 13:15
Copper	18	1.7		0.33	mg/Kg-dry 1		12/03/08 13:15
Lead	13	1.7		0.67	mg/Kg-dry 1		12/03/08 13:15
Nickel	17	8.3		0.33	mg/Kg-dry 1		12/03/08 13:15
Zinc	68	3.3		0.67	mg/Kg-dry 1		12/03/08 13:15

Qualifiers:		
*	Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering
Project: Ithaca Dredging
W Order: 0811166
Matrix: SOIL
Inst. ID: ICAP 61E
ColumnID:
Revision: 12/05/08 8:41
Col Type:

Sample Size: 0.5 g
%Moisture: 41.2
TestCode: 6010S

Lab ID: 0811166-010D
Client Sample ID: *Ith-DUP2*
Collection Date: 11/20/08 0:00
Date Received: 11/21/08 16:16
PrepDate: 12/02/08 10:11
BatchNo: 8539/R15689
FileID: 1-SAMP-95668

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP					SW6010B		(SW3050B)
Arsenic	2.5	1.7		0.68	mg/Kg-dry	1	12/03/08 13:19
Cadmium	ND	0.85		0.17	mg/Kg-dry	1	12/03/08 13:19
Chromium	12	1.7		0.68	mg/Kg-dry	1	12/03/08 13:19
Copper	16	1.7		0.34	mg/Kg-dry	1	12/03/08 13:19
Lead	7.8	1.7		0.68	mg/Kg-dry	1	12/03/08 13:19
Nickel	18	8.5		0.34	mg/Kg-dry	1	12/03/08 13:19
Zinc	49	3.4		0.68	mg/Kg-dry	1	12/03/08 13:19

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering

Project: Ithaca Dredging

W Order: 0811166

Matrix: SOIL

Inst. ID: ICAP 61E

ColumnID:

Revision: 12/05/08 8:41

Col Type:

Sample Size: 0.5 g

%Moisture: 47.6

TestCode: 6010S

Lab ID: 0811166-011D

Client Sample ID: *Ith-2 (1-6)*

Collection Date: 11/20/08 16:10

Date Received: 11/21/08 16:16

PrepDate: 12/02/08 10:11

BatchNo: 8539/R15689

FileID: 1-SAMP-95669

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP					SW6010B		(SW3050B)
Arsenic	5.6	1.9		0.76	mg/Kg-dry 1		12/03/08 13:23
Cadmium	ND	0.95		0.19	mg/Kg-dry 1		12/03/08 13:23
Chromium	19	1.9		0.76	mg/Kg-dry 1		12/03/08 13:23
Copper	27	1.9		0.38	mg/Kg-dry 1		12/03/08 13:23
Lead	21	1.9		0.76	mg/Kg-dry 1		12/03/08 13:23
Nickel	26	9.5		0.38	mg/Kg-dry 1		12/03/08 13:23
Zinc	97	3.8		0.76	mg/Kg-dry 1		12/03/08 13:23

Qualifiers:		
*	Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering

Project: Ithaca Dredging

W Order: 0811166

Matrix: SOIL

Inst. ID: ICAP 61E

ColumnID:

Revision: 12/05/08 8:41

Col Type:

Sample Size: 0.5 g

%Moisture: 48.3

TestCode: 6010S

Lab ID: 0811166-012D

Client Sample ID: *Ith-3 (1-6)*

Collection Date: 11/20/08 16:15

Date Received: 11/21/08 16:16

PrepDate: 12/02/08 10:11

BatchNo: 8539/R15689

FileID: 1-SAMP-95673

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP					SW6010B		(SW3050B)
Arsenic	5.4	1.9		0.77	mg/Kg-dry	1	12/03/08 13:37
Cadmium	ND	0.97		0.19	mg/Kg-dry	1	12/03/08 13:37
Chromium	18	1.9		0.77	mg/Kg-dry	1	12/03/08 13:37
Copper	29	1.9		0.39	mg/Kg-dry	1	12/03/08 13:37
Lead	25	1.9		0.77	mg/Kg-dry	1	12/03/08 13:37
Nickel	24	9.7		0.39	mg/Kg-dry	1	12/03/08 13:37
Zinc	100	3.9		0.77	mg/Kg-dry	1	12/03/08 13:37

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering

Project: Ithaca Dredging

W Order: 0811166

Matrix: SOIL

Inst. ID: ICAP 61E

ColumnID:

Revision: 12/05/08 8:41

Col Type:

Sample Size: 0.5 g

%Moisture: 37.0

TestCode: 6010S

Lab ID: 0811166-013D

Client Sample ID: Ith-4 (1-6)

Collection Date: 11/20/08 16:20

Date Received: 11/21/08 16:16

PrepDate: 12/02/08 10:11

BatchNo: 8539/R15689

FileID: 1-SAMP-95674

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP					SW6010B		(SW3050B)
Arsenic	4.3		1.6	0.63	mg/Kg-dry	1	12/03/08 13:40
Cadmium	ND		0.79	0.16	mg/Kg-dry	1	12/03/08 13:40
Chromium	12		1.6	0.63	mg/Kg-dry	1	12/03/08 13:40
Copper	18		1.6	0.32	mg/Kg-dry	1	12/03/08 13:40
Lead	12		1.6	0.63	mg/Kg-dry	1	12/03/08 13:40
Nickel	17		7.9	0.32	mg/Kg-dry	1	12/03/08 13:40
Zinc	60		3.2	0.63	mg/Kg-dry	1	12/03/08 13:40

Qualifiers:		
*	Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering
Project: Ithaca Dredging
W Order: 0811166
Matrix: SOIL
Inst. ID: ICAP 61E
ColumnID:
Revision: 12/05/08 8:41
Col Type:

Sample Size: 0.5 g
%Moisture: 39.7
TestCode: 6010S

Lab ID: 0811166-014D
Client Sample ID: *Ith-6 (1-6)*
Collection Date: 11/20/08 16:25
Date Received: 11/21/08 16:16
PrepDate: 12/02/08 10:11
BatchNo: 8539/R15689
FileID: 1-SAMP-95675

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP					SW6010B		(SW3050B)
Arsenic	4.5	1.7		0.66	mg/Kg-dry 1		12/03/08 13:44
Cadmium	ND	0.83		0.17	mg/Kg-dry 1		12/03/08 13:44
Chromium	14	1.7		0.66	mg/Kg-dry 1		12/03/08 13:44
Copper	21	1.7		0.33	mg/Kg-dry 1		12/03/08 13:44
Lead	20	1.7		0.66	mg/Kg-dry 1		12/03/08 13:44
Nickel	20	8.3		0.33	mg/Kg-dry 1		12/03/08 13:44
Zinc	70	3.3		0.66	mg/Kg-dry 1		12/03/08 13:44

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering

Project: Ithaca Dredging

W Order: 0811131

Matrix: SOIL

Inst. ID: FIMS 100

ColumnID:

Revision: 12/04/08 10:00

Col Type:

Sample Size: 0.3 g

%Moisture: 24.7

TestCode: HG7471S

Lab ID: 0811131-001D

Client Sample ID: *Ith-3 (6-12)*

Collection Date: 11/17/08 14:50

Date Received: 11/18/08 16:28

PrepDate: 12/01/08 0:00

BatchNo: 8535/R15669

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY					SW7471A		(SW7471A)
Mercury	0.033	J	0.13	0.011	mg/Kg-dry 1		12/03/08 15:44

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits

Print Date: 12/12/08 9:02

408171

Project Supervisor: Anthony Crescenzi



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811131-002D
Project: Ithaca Dredging	Client Sample ID: <i>Ith-4 (6-12)</i>
W Order: 0811131	Collection Date: 11/18/08 9:20
Matrix: SOIL	Date Received: 11/18/08 16:28
Inst. ID: FIMS 100	PrepDate: 12/01/08 0:00
ColumnID:	BatchNo: 8535/R15669
Revision: 12/04/08 10:00	FileID: 1-SAMP-
Col Type:	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY	0.043	J	0.14	0.012	SW7471A		(SW7471A)
Mercury					mg/Kg-dry 1		12/03/08 15:46

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering
Project: Ithaca Dredging
W Order: 0811131
Matrix: SOIL
Inst. ID: FIMS 100 **Sample Size:** 0.3 g
ColumnID: **%Moisture:** 31.9
Revision: 12/04/08 10:00 **TestCode:** HG7471S
Col Type:

Lab ID: 0811131-003D
Client Sample ID: *Ith-2 (6-10)*
Collection Date: 11/18/08 10:10
Date Received: 11/18/08 16:28
PrepDate: 12/01/08 0:00
BatchNo: 8535/R15669
FileID: 1-SAMP-

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY					SW7471A		(SW7471A)
Mercury	0.18		0.15	0.012	mg/Kg-dry 1		12/03/08 15:48

- Qualifiers:**
- * Value exceeds Maximum Contaminant Level
 - E Value exceeds the instrument calibration range
 - J Analyte detected below the PQL
 - P Prim./Conf. column %D or RPD exceeds limit
 - B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - ND Not Detected at the Practical Quantitation Limit (PQL)
 - S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering
Project: Ithaca Dredging
W Order: 0811131
Matrix: SOIL
Inst. ID: FIMS 100 **Sample Size:** 0.3 g
ColumnID: **%Moisture:** 34.5
Revision: 12/04/08 10:00 **TestCode:** HG7471S
Col Type:

Lab ID: 0811131-004D
Client Sample ID: *Ith-2 (10-14)*
Collection Date: 11/18/08 10:20
Date Received: 11/18/08 16:28
PrepDate: 12/01/08 0:00
BatchNo: 8535/R15669
FileID: 1-SAMP-

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY					SW7471A		(SW7471A)
Mercury	0.047	J	0.15	0.013	mg/Kg-dry	1	12/03/08 15:50

- Qualifiers:**
- * Value exceeds Maximum Contaminant Level
 - E Value exceeds the instrument calibration range
 - J Analyte detected below the PQL
 - P Prim./Conf. column %D or RPD exceeds limit
 - B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - ND Not Detected at the Practical Quantitation Limit (PQL)
 - S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811131-005D
Project: Ithaca Dredging	Client Sample ID: <i>Ith-6 (6-10)</i>
W Order: 0811131	Collection Date: 11/18/08 14:10
Matrix: SOIL	Date Received: 11/18/08 16:28
Inst. ID: FIMS 100	PrepDate: 12/01/08 0:00
ColumnID:	BatchNo: 8535/R15669
Revision: 12/04/08 10:00	FileID: 1-SAMP-
Col Type:	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY					SW7471A		(SW7471A)
Mercury	0.030	J	0.14	0.012	mg/Kg-dry	1	12/03/08 15:57

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811131-006D
Project: Ithaca Dredging	Client Sample ID: <i>Ith-6 (10-14)</i>
W Order: 0811131	Collection Date: 11/18/08 14:20
Matrix: SOIL	Date Received: 11/18/08 16:28
Inst. ID: FIMS 100	PrepDate: 12/01/08 0:00
ColumnID:	BatchNo: 8535/R15669
Revision: 12/04/08 10:00	FileID: 1-SAMP-
Col Type:	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY					SW7471A		(SW7471A)
Mercury	0.031	J	0.15	0.013	mg/Kg-dry	1	12/03/08 15:59

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT:	ERM Consulting & Engineering	Lab ID:	0811142-001D
Project:	Ithaca Dredging	Client Sample ID:	<i>Ith-8 (2-10)</i>
W Order:	0811142	Collection Date:	11/19/08 14:30
Matrix:	SOIL	Date Received:	11/20/08 9:25
Inst. ID:	FIMS 100	PrepDate:	12/01/08 0:00
ColumnID:		BatchNo:	8536/R15669
Revision:	12/04/08 10:00	FileID:	1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY					SW7471A		(SW7471A)
Mercury	0.20	0.16		0.014	mg/Kg-dry 1		12/03/08 15:15

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering
Project: Ithaca Dredging
W Order: 0811142
Matrix: SOIL
Inst. ID: FIMS 100 **Sample Size:** 0.3 g
ColumnID: **%Moisture:** 31.3
Revision: 12/04/08 10:00 **TestCode:** HG7471S
Col Type:

Lab ID: 0811142-002D
Client Sample ID: *Ith-8 (10-14)*
Collection Date: 11/19/08 14:45
Date Received: 11/20/08 9:25
PrepDate: 12/01/08 0:00
BatchNo: 8536/R15669
FileID: 1-SAMP-

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY					SW7471A		(SW7471A)
Mercury	0.093	J	0.15	0.012	mg/Kg-dry 1		12/03/08 15:18

- Qualifiers:**
- * Value exceeds Maximum Contaminant Level
 - E Value exceeds the instrument calibration range
 - J Analyte detected below the PQL
 - P Prim./Conf. column %D or RPD exceeds limit
 - B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - ND Not Detected at the Practical Quantitation Limit (PQL)
 - S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering

Project: Ithaca Dredging

W Order: 0811142

Matrix: SOIL

Inst. ID: FIMS 100

ColumnID:

Revision: 12/04/08 10:00

Col Type:

Sample Size: 0.3 g

%Moisture: 30.2

TestCode: HG7471S

Lab ID: 0811142-003D

Client Sample ID: *Ith-7 (1-14)*

Collection Date: 11/19/08 13:50

Date Received: 11/20/08 9:25

PrepDate: 12/01/08 0:00

BatchNo: 8536/R15669

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY					SW7471A		(SW7471A)
Mercury	0.13	J	0.14	0.012	mg/Kg-dry	1	12/03/08 15:20

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits

Print Date: 12/12/08 9:03

408160

Project Supervisor: Anthony Crescenzi



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering

Project: Ithaca Dredging

W Order: 0811142

Matrix: SOIL

Inst. ID: FIMS 100

ColumnID:

Revision: 12/04/08 10:00

Col Type:

Sample Size: 0.3 g

%Moisture: 34.3

TestCode: HG7471S

Lab ID: 0811142-004D

Client Sample ID: *Ith-5 (4-10)*

Collection Date: 11/19/08 12:40

Date Received: 11/20/08 9:25

PrepDate: 12/01/08 0:00

BatchNo: 8536/R15669

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY					SW7471A		(SW7471A)
Mercury	0.15	0.15		0.013	mg/Kg-dry 1		12/03/08 15:22

Qualifiers:		
*	Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits

Print Date: 12/12/08 9:03

408161

Project Supervisor: Anthony Crescenzi



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering

Project: Ithaca Dredging

W Order: 0811142

Matrix: SOIL

Inst. ID: FIMS 100

ColumnID:

Revision: 12/04/08 10:00

Col Type:

Sample Size: 0.3 g

%Moisture: 29.0

TestCode: HG7471S

Lab ID: 0811142-005D

Client Sample ID: *Ith-5 (10-14)*

Collection Date: 11/19/08 12:50

Date Received: 11/20/08 9:25

PrepDate: 12/01/08 0:00

BatchNo: 8536/R15669

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY					SW7471A		(SW7471A)
Mercury	0.087	J	0.14	0.012	mg/Kg-dry	1	12/03/08 15:33

Qualifiers:		
*	Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811142-006D
Project: Ithaca Dredging	Client Sample ID: <i>Ith-1 (6-12)</i>
W Order: 0811142	Collection Date: 11/19/08 10:30
Matrix: SOIL	Date Received: 11/20/08 9:25
Inst. ID: FIMS 100	PrepDate: 12/01/08 0:00
ColumnID:	BatchNo: 8536/R15669
Revision: 12/04/08 10:00	FileID: 1-SAMP-
Col Type:	
Sample Size: 0.3 g	
%Moisture: 34.9	
TestCode: HG7471S	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY					SW7471A		(SW7471A)
Mercury	0.30		0.15	0.013	mg/Kg-dry 1		12/03/08 15:35

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering
Project: Ithaca Dredging
W Order: 0811142
Matrix: SOIL
Inst. ID: FIMS 100 **Sample Size:** 0.3 g
ColumnID: **%Moisture:** 33.4
Revision: 12/04/08 10:00 **TestCode:** HG7471S
Col Type:

Lab ID: 0811142-007D
Client Sample ID: *Ith-Dup1*
Collection Date: 11/19/08 0:00
Date Received: 11/20/08 9:25
PrepDate: 12/01/08 0:00
BatchNo: 8536/R15669
FileID: 1-SAMP-

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY					SW7471A		(SW7471A)
Mercury	0.31	0.15		0.013	mg/Kg-dry 1		12/03/08 15:37

Qualifiers: * Value exceeds Maximum Contaminant Level B Analyte detected in the associated Method Blank
 E Value exceeds the instrument calibration range H Holding times for preparation or analysis exceeded
 J Analyte detected below the PQL ND Not Detected at the Practical Quantitation Limit (PQL)
 P Prim./Conf. column %D or RPD exceeds limit S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering

Project: Ithaca Dredging

W Order: 0811166

Matrix: SOIL

Inst. ID: FIMS 100

ColumnID:

Revision: 12/04/08 10:00

Col Type:

Sample Size: 0.3 g

%Moisture: 35.0

TestCode: HG7471S

Lab ID: 0811166-001D

Client Sample ID: *Ith-9 (1-14)*

Collection Date: 11/20/08 15:15

Date Received: 11/21/08 16:16

PrepDate: 12/01/08 0:00

BatchNo: 8535/R15669

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY					SW7471A		(SW7471A)
Mercury	0.072	J	0.15	0.013	mg/Kg-dry	1	12/03/08 16:01

Qualifiers:		
*	Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811166-002D
Project: Ithaca Dredging	Client Sample ID: <i>Ith-10 (1-14)</i>
W Order: 0811166	Collection Date: 11/20/08 14:15
Matrix: SOIL	Date Received: 11/21/08 16:16
Inst. ID: FIMS 100	PrepDate: 12/01/08 0:00
ColumnID:	BatchNo: 8535/R15669
Revision: 12/04/08 10:00	FileID: 1-SAMP-
Col Type:	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY					SW7471A		(SW7471A)
Mercury	0.037	J	0.15	0.013	mg/Kg-dry 1		12/03/08 16:03

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering

Project: Ithaca Dredging

W Order: 0811166

Matrix: SOIL

Inst. ID: FIMS 100

ColumnID:

Revision: 12/04/08 10:00

Col Type:

Sample Size: 0.3 g

%Moisture: 32.2

TestCode: HG7471S

Lab ID: 0811166-003D

Client Sample ID: *Ith-11 (1-14)*

Collection Date: 11/20/08 12:20

Date Received: 11/21/08 16:16

PrepDate: 12/01/08 0:00

BatchNo: 8535/R15669

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY					SW7471A		(SW7471A)
Mercury	0.027	J	0.15	0.012	mg/Kg-dry	1	12/03/08 16:05

Qualifiers:		
*	Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
E	Value exceeds the Instrument calibration range	H Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811166-004D
Project: Ithaca Dredging	Client Sample ID: <i>Ith-12 (1-14)</i>
W Order: 0811166	Collection Date: 11/20/08 10:45
Matrix: SOIL	Date Received: 11/21/08 16:16
Inst. ID: FIMS 100	PrepDate: 12/01/08 0:00
ColumnID:	BatchNo: 8535/R15669
Revision: 12/04/08 10:00	FileID: 1-SAMP-
Col Type:	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY					SW7471A		(SW7471A)
Mercury	0.024	J	0.16	0.013	mg/Kg-dry 1		12/03/08 16:07

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811166-005D
Project: Ithaca Dredging	Client Sample ID: <i>Ith-16 (1-14)</i>
W Order: 0811166	Collection Date: 11/20/08 9:30
Matrix: SOIL	Date Received: 11/21/08 16:16
Inst. ID: FIMS 100	PrepDate: 12/01/08 0:00
ColumnID:	BatchNo: 8535/R15669
Revision: 12/04/08 10:00	FileID: 1-SAMP-
Col Type:	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY					SW7471A		(SW7471A)
Mercury	0.058	J	0.13	0.011	mg/Kg-dry 1		12/03/08 16:10

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

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East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811166-006D
Project: Ithaca Dredging	Client Sample ID: <i>Ith-14 (1-14)</i>
W Order: 0811166	Collection Date: 11/21/08 9:50
Matrix: SOIL	Date Received: 11/21/08 16:16
Inst. ID: FIMS 100	PrepDate: 12/01/08 0:00
ColumnID:	BatchNo: 8535/R15669
Revision: 12/04/08 10:00	FileID: 1-SAMP-
Col Type:	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY					SW7471A		(SW7471A)
Mercury	0.029	J	0.13	0.011	mg/Kg-dry 1		12/03/08 16:58

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering

Project: Ithaca Dredging

W Order: 0811166

Matrix: SOIL

Inst. ID: FIMS 100

ColumnID:

Revision: 12/04/08 10:00

Col Type:

Sample Size: 0.3 g

%Moisture: 30.9

TestCode: HG7471S

Lab ID: 0811166-007D

Client Sample ID: *Ith-13 (1-10)*

Collection Date: 11/21/08 8:30

Date Received: 11/21/08 16:16

PrepDate: 12/01/08 0:00

BatchNo: 8535/R15669

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY					SW7471A		(SW7471A)
Mercury	0.082	J	0.14	0.012	mg/Kg-dry	1	12/03/08 16:27

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811166-008D
Project: Ithaca Dredging	Client Sample ID: <i>Ith-13 (10-14)</i>
W Order: 0811166	Collection Date: 11/21/08 8:40
Matrix: SOIL	Date Received: 11/21/08 16:16
Inst. ID: FIMS 100	PrepDate: 12/01/08 0:00
ColumnID:	BatchNo: 8535/R15669
Revision: 12/04/08 10:00	FileID: 1-SAMP-
Col Type:	
Sample Size: 0.3 g	
%Moisture: 31.1	
TestCode: HG7471S	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY					SW7471A		(SW7471A)
Mercury	0.037	J	0.15	0.012	mg/Kg-dry 1		12/03/08 16:29

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering
Project: Ithaca Dredging
W Order: 0811166
Matrix: SOIL
Inst. ID: FIMS 100 **Sample Size:** 0.3 g
ColumnID: **%Moisture:** 40.0
Revision: 12/04/08 10:00 **TestCode:** HG7471S
Col Type:

Lab ID: 0811166-009D
Client Sample ID: *Ith-1 (1-6)*
Collection Date: 11/20/08 16:00
Date Received: 11/21/08 16:16
PrepDate: 12/01/08 0:00
BatchNo: 8535/R15669
FileID: 1-SAMP-

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY					SW7471A		(SW7471A)
Mercury	0.055	J	0.17	0.014	mg/Kg-dry	1	12/03/08 16:31

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Value exceeds the instrument calibration range
 J Analyte detected below the PQL
 P Prim./Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Practical Quantitation Limit (PQL)
 S Spike Recovery outside accepted recovery limits

Print Date: 12/12/08 9:06

408191

Project Supervisor: Anthony Crescenzi



Life Science Laboratories, Inc.

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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811166-010D
Project: Ithaca Dredging	Client Sample ID: <i>Ith-DUP2</i>
W Order: 0811166	Collection Date: 11/20/08 0:00
Matrix: SOIL	Date Received: 11/21/08 16:16
Inst. ID: FIMS 100	PrepDate: 12/01/08 0:00
ColumnID:	BatchNo: 8535/R15669
Revision: 12/04/08 10:00	FileID: 1-SAMP-
Col Type:	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY					SW7471A		(SW7471A)
Mercury	0.029	J	0.17	0.014	mg/Kg-dry 1		12/03/08 16:33

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering
Project: Ithaca Dredging
W Order: 0811166
Matrix: SOIL
Inst. ID: FIMS 100
ColumnID:
Revision: 12/04/08 10:00
Col Type:

Lab ID: 0811166-011D
Client Sample ID: *Ith-2 (1-6)*
Collection Date: 11/20/08 16:10
Date Received: 11/21/08 16:16
PrepDate: 12/01/08 0:00
BatchNo: 8535/R15669
FileID: 1-SAMP-

Sample Size: 0.3 g
%Moisture: 47.6
TestCode: HG7471S

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY					SW7471A		(SW7471A)
Mercury	0.076	J	0.19	0.016	mg/Kg-dry	1	12/03/08 16:36

- Qualifiers:**
- * Value exceeds Maximum Contaminant Level
 - E Value exceeds the instrument calibration range
 - J Analyte detected below the PQL
 - P Prim./Conf. column %D or RPD exceeds limit
 - B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - ND Not Detected at the Practical Quantitation Limit (PQL)
 - S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering

Project: Ithaca Dredging

W Order: 0811166

Matrix: SOIL

Inst. ID: FIMS 100

ColumnID:

Revision: 12/04/08 10:00

Col Type:

Sample Size: 0.3 g

%Moisture: 48.3

TestCode: HG7471S

Lab ID: 0811166-012D

Client Sample ID: *Ith-3 (1-6)*

Collection Date: 11/20/08 16:15

Date Received: 11/21/08 16:16

PrepDate: 12/01/08 0:00

BatchNo: 8535/R15669

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY					SW7471A		(SW7471A)
Mercury	0.076	J	0.19	0.016	mg/Kg-dry	1	12/03/08 16:38

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811166-013D
Project: Ithaca Dredging	Client Sample ID: <i>Ith-4 (I-6)</i>
W Order: 0811166	Collection Date: 11/20/08 16:20
Matrix: SOIL	Date Received: 11/21/08 16:16
Inst. ID: FIMS 100	PrepDate: 12/01/08 0:00
ColumnID:	BatchNo: 8535/R15669
Revision: 12/04/08 10:00	FileID: 1-SAMP-
Col Type:	
Sample Size: 0.3 g	
%Moisture: 37.0	
TestCode: HG7471S	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY					SW7471A		(SW7471A)
Mercury	0.043	J	0.16	0.013	mg/Kg-dry 1		12/03/08 16:41

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: ERM Consulting & Engineering	Lab ID: 0811166-014D
Project: Ithaca Dredging	Client Sample ID: <i>Ith-6 (1-6)</i>
W Order: 0811166	Collection Date: 11/20/08 16:25
Matrix: SOIL	Date Received: 11/21/08 16:16
Inst. ID: FIMS 100	PrepDate: 12/01/08 0:00
ColumnID:	BatchNo: 8535/R15669
Revision: 12/04/08 10:00	FileID: 1-SAMP-
Col Type:	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY					SW7471A		(SW7471A)
Mercury	0.047	J	0.17	0.014	mg/Kg-dry 1		12/03/08 16:43

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits

Quality Control Results

GC/MS Volatile Organics Data

SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Life Science Laboratories, Inc Contract: _____Lab Code: LSLB Case No.: ERM SAS No. _____ SDG No.: 0811131BLevel: (low/med) LOW

	EPA SAMPLE NO.	LSL ID	SMC1	SMC2	SMC3			TOT OUT
			(DCE) 1 #	(TOL) 1 #	(BFB) 1 #			
01	LCS-15605	LCS-15605	81	101	82			0
02	MB-15605	MB-15605	85	106	94			0
03	Ith-2 (6-10)	0811131-003A	86	121	146 *			1
04	Ith-6 (10-14)	0811131-006A	82	116	109			0
05	Ith-8 (2-10)	0811142-001A	83	120	123			0
06	Ith-7 (1-14)	0811142-003A	81	113	111			0
07	Ith-5 (4-10)	0811142-004A	81	118	118			0
08	Ith-5 (10-14)	0811142-005A	82	111	97			0
09	Ith-1 (6-12)	0811142-006A	81	115	103			0
10	Ith-Dup1	0811142-007A	82	115	113			0
11	Ith-3 (6-12)	0811131-001A	96	100	92			0
12	Ith-4 (6-12)	0811131-002A	81	114	110			0
13	LCSD-15605	LCSD-15605	84	103	90			0
14	LCS-15608	LCS-15608	82	102	82			0
15	LCSD-15608	LCSD-15608	82	102	84			0
16	MB-15608	MB-15608	84	107	92			0
17	Ith-2 (10-14)	0811131-004A	81	114	112			0
18	Ith-6 (6-10)	0811131-005A	83	116	111			0
19	Ith-8 (10-14)	0811142-002A	86	110	100			0
20	Ith-8 (2-10)RA	0811142-001ARA	84	123	126 *			1
21	Ith-2 (6-10)	0811131-003C	82	111	104			0
22	Ith-9 (1-14)	0811166-001A	80	116	112			0
23	Ith-10 (1-14)	0811166-002A	82	113	103			0
24	Ith-12 (1-14)	0811166-004A	82	113	105			0
25	Ith-14 (1-14)	0811166-006A	81	120	111			0
26	Ith-13 (1-10)	0811166-007A	85	107	97			0
27	Ith-13 (10-14)	0811166-008A	81	114	106			0

QC Limit

SMC 1 (DCE) 1 = 1,2-Dichloroethane-d4 71-128
 SMC 2 (TOL) 1 = Toluene-d8 75-125
 SMC 3 (BFB) 1 = 4-Bromofluorobenzene 59-125

Column to be used to flag recovery values

* Values outside of contract required QC limits

SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Life Science Laboratories, Inc Contract: _____Lab Code: LSLB Case No.: ERM SAS No. _____ SDG No.: 0811131BLevel: (low/med) LOW

EPA SAMPLE NO.	LSL ID	SMC1 (DCE) 1 #	SMC2 (TOL) 1 #	SMC3 (BFB) 1 #	TOT OUT
28 MSB-15620	MSB-15620	83	101	84	0
29 LCS-15620	LCS-15620	83	101	84	0
30 Ith-16 (1-14)MS	0811166-005AMS	81	110	96	0
31 Ith-16 (1-14)MSD	0811166-005AMSD	83	116	103	0
32 MB-15620	MB-15620	85	107	95	0
33 Ith-11 (1-14)	0811166-003A	81	117	112	0
34 Ith-1 (1-6)	0811166-009A	80	116	113	0
35 Ith-16 (1-14)	0811166-005A	80	111	102	0
36 Ith-DUP2	0811166-010A	82	116	107	0
37 Ith-2 (1-6)	0811166-011A	78	120	119	0
38 Ith-4 (1-6)	0811166-013A	81	120	111	0
39 Ith-6 (1-6)	0811166-014A	81	117	108	0
40 Ith-2 (1-6)RA	0811166-011ARA	83	118	118	0
41 LCS-15645	LCS-15645	86	101	85	0
42 MB-15645	MB-15645	87	106	96	0
43 Ith-3 (1-6)	0811166-012A	82	117	117	0

QC Limit

SMC 1 (DCE) 1 = 1,2-Dichloroethane-d4 71-128
 SMC 2 (TOL) 1 = Toluene-d8 75-125
 SMC 3 (BFB) 1 = 4-Bromofluorobenzene 59-125

Column to be used to flag recovery values

* Values outside of contract required QC limits

SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Life Science Laboratories, Inc Contract: _____Lab Code: LSLB Case No.: ERM SAS No. _____ SDG No.: 0811131BLevel: (low/med) LOW

	EPA SAMPLE NO.	LSL ID	SMC1	SMC2	SMC3				TOT OUT
			(DCE) 1 #	(TOL) 1 #	(BFB) 1 #				
01	LCS-15605	LCS-15605	81	101	82				0
02	MB-15605	MB-15605	85	106	94				0
03	Ith-2 (6-10)	0811131-003A	86	121	146 *				1
04	Ith-6 (10-14)	0811131-006A	82	116	109				0
05	Ith-8 (2-10)	0811142-001A	83	120	123				0
06	Ith-7 (1-14)	0811142-003A	81	113	111				0
07	Ith-5 (4-10)	0811142-004A	81	118	118				0
08	Ith-5 (10-14)	0811142-005A	82	111	97				0
09	Ith-1 (6-12)	0811142-006A	81	115	103				0
10	Ith-Dup1	0811142-007A	82	115	113				0
11	Ith-3 (6-12)	0811131-001A	96	100	92				0
12	Ith-4 (6-12)	0811131-002A	81	114	110				0
13	LCSD-15605	LCSD-15605	84	103	90				0
14	LCS-15608	LCS-15608	82	102	82				0
15	LCSD-15608	LCSD-15608	82	102	84				0
16	MB-15608	MB-15608	84	107	92				0
17	Ith-2 (10-14)	0811131-004A	81	114	112				0
18	Ith-6 (6-10)	0811131-005A	83	116	111				0
19	Ith-8 (10-14)	0811142-002A	86	110	100				0
20	Ith-8 (2-10)RA	0811142-001ARA	84	123	126 *				1
21	Ith-2 (6-10)	0811131-003C	82	111	104				0
22	Ith-9 (1-14)	0811166-001A	80	116	112				0
23	Ith-10 (1-14)	0811166-002A	82	113	103				0
24	Ith-12 (1-14)	0811166-004A	82	113	105				0
25	Ith-14 (1-14)	0811166-006A	81	120	111				0
26	Ith-13 (1-10)	0811166-007A	85	107	97				0
27	Ith-13 (10-14)	0811166-008A	81	114	106				0

QC Limit

SMC1 (DCE) 1 = 1,2-Dichloroethane-d4 71-128
 SMC2 (TOL) 1 = Toluene-d8 75-125
 SMC3 (BFB) 1 = 4-Bromofluorobenzene 59-125

Column to be used to flag recovery values

* Values outside of contract required QC limits

Life Science Laboratories, Inc.

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 East Syracuse, NY 13057 (315) 437-0200

ANALYTICAL QC SUMMARY REPORT

Method: SW8260B

Work Order: 0811166

Project: Ithaca Dredging

CLIENT: ERM Consulting & Engineering

Sample ID: 0811166-005AMS	SampType: MS	TestCode: 8260S	Units: µg/Kg-dry	RunNo: 15620
Client ID: Ith-16 (1-14)	Batch ID: R15620	Method: SW8260B		SeqNo: 407092
Instrument: MS03_10	ColumnID: Rtx-VMS	Rtx-VMS, 1.0 df		

Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	45.2	3.1	62.8	0	72	70	130				
Ethylbenzene	52.0	3.1	62.8	0	83	70	130				
Toluene	48.2	3.1	62.8	0	77	70	130				
Xylenes (total)	155	6.3	189	0	82	70	130				
Surr: 1,2-Dichloroethane-d4	50.8	0.13	62.8	0	81	71	128				
Surr: Toluene-d8	69.3	0.13	62.8	0	110	75	125				
Surr: 4-Bromofluorobenzene	60.2	0.13	62.8	0	96	59	125				

Qualifiers: B Analyte detected in the associated Method Blank E Value exceeds the instrument calibration range J Analyte detected below the PQL
 ND Not Detected at the Practical Quantitation Limit (PQL) R RPD exceeds accepted precision limit S Spike Recovery outside accepted recovery limits
 U Not Detected at the MDC or RL

Life Science Laboratories, Inc.

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ANALYTICAL QC SUMMARY REPORT

Method: SW8260B

Work Order: 0811166

Project: Ithaca Dredging

CLIENT: ERM Consulting & Engineering

Sample ID: 0811166-095AMSD	SampType: MSD	TestCode: 8260S	Units: µg/Kg-dry	Prep Date:	RunNo: 15620
Client ID: Ith-16 (1-14)	Batch ID: R15620	Method: SW8260B		Analysis Date: 11/25/2008	SeqNo: 407093
Instrument: MS03_10	ColumnID: Rbx-VMS	Rtx-VMS, 1.0 df			

Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	45.5	2.7	53.5	0	85	70	130	45.2	1	20	
Ethylbenzene	51.8	2.7	53.5	0	97	70	130	52	0	20	
Toluene	45.9	2.7	53.5	0	86	70	130	48.2	5	20	
Xylenes (total)	153	5.3	160	0	95	70	130	155	2	20	
Surr: 1,2-Dichloroethane-d4	44.3	0.11	53.5	0	83	71	128	0	0	0	
Surr: Toluene-d8	62.1	0.11	53.5	0	116	75	125	0	0	0	
Surr: 4-Bromofluorobenzene	55.3	0.11	53.5	0	103	59	125	0	0	0	

Qualifiers: B Analyte detected in the associated Method Blank
 ND Not Detected at the Practical Quantitation Limit (PQL)
 U Not Detected at the MDC or RL

E Value exceeds the instrument calibration range
 R RPD exceeds accepted precision limit

J Analyte detected below the PQL
 S Spike Recovery outside accepted recovery limits

Life Science Laboratories, Inc.

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ANALYTICAL QC SUMMARY REPORT

Method: SW8260B

Work Order: 0811166

Project: Ithaca Dredging

CLIENT: ERM Consulting & Engineering

Sample ID: MSB-15620	Sample Type: MSB	Test Code: 8260S	Units: µg/Kg	Prep Date:	Run No: 15620						
Client ID: ZZZZZ	Batch ID: R15620	Method: SW8260B		Analysis Date: 11/25/2008	Seq No: 407104						
Instrument: MS03_10	Column ID: Rtx-VMS	Rtx-VMS, 1.0 df									
Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	38.6	2.5	50	0	77	70	130				
Ethylbenzene	43.1	2.5	50	0	86	70	130				
Toluene	41.5	2.5	50	0	83	70	130				
Xylenes (total)	128	5.0	150	0	86	70	130				
Surr: 1,2-Dichloroethane-d4	41.3	0.10	50	0	83	71	128				
Surr: Toluene-d8	50.6	0.10	50	0	101	75	125				
Surr: 4-Bromofluorobenzene	41.9	0.10	50	0	84	59	125				

Qualifiers: B Analyte detected in the associated Method Blank
 ND Not Detected at the Practical Quantitation Limit (PQL)
 U Not Detected at the MDC or RL
 E Value exceeds the instrument calibration range
 R RPD exceeds accepted precision limit
 J Analyte detected below the PQL
 S Spike Recovery outside accepted recovery limits

Life Science Laboratories, Inc.

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ANALYTICAL QC SUMMARY REPORT

Method: SW8260B
 Work Order: 0811131
 Project: Ithaca Dredging

CLIENT: ERM Consulting & Engineering

Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	45.6	2.5	50	0	91	80	121				
Ethylbenzene	51.8	2.5	50	0	104	80	121				
Toluene	49.2	2.5	50	0	98	80	121				
Xylenes (total)	153	5.0	150	0	102	76	124				
Surr: 1,2-Dichloroethane-d4	40.3	0.10	50	0	81	71	128				
Surr: Toluene-d8	50.6	0.10	50	0	101	75	125				
Surr: 4-Bromofluorobenzene	41.2	0.10	50	0	82	59	125				

Sample ID: LCS-15605
 Client ID: ZZZZ
 Instrument: MS03_10

SampType: LCS
 Batch ID: R15605
 ColumnID: Rtx-VMS

TestCode: 8260S
 Method: SW8260B
 Rtx-VMS, 1.0 df

Units: µg/Kg
 Prep Date: 11/21/08
 Analysis Date: 11/21/08
 RunNo: 15605
 SeqNo: 406790

Qualifiers: B Analyte detected in the associated Method Blank
 ND Not Detected at the Practical Quantitation Limit (PQL)
 U Not Detected at the MDC or RL

E Value exceeds the instrument calibration range
 R RPD exceeds accepted precision limit

J Analyte detected below the PQL
 S Spike Recovery outside accepted recovery limits

Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200
 East Syracuse, NY 13057 (315) 437-0200

ANALYTICAL QC SUMMARY REPORT

Method: SW8260B
 Work Order: 0811131
 Project: Ithaca Dredging

CLIENT: ERM Consulting & Engineering

Sample ID:	LCSD-15605	SampType:	LCSD	TestCode:	8260S	Units:	µg/Kg	Prep Date:	15605		
Client ID:	ZZZZZ	Batch ID:	R15605	Method:	SW8260B			Analysis Date:	11/21/08		
Instrument:	MS03_10	ColumnID:	Rtx-VMS		Rtx-VMS, 1.0 df				SeqNc:	406802	
Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	46.5	2.5	50	0	93	80	121	45.6	2	20	
Ethylbenzene	50.8	2.5	50	0	102	80	121	51.8	2	20	
Toluene	48.4	2.5	50	0	97	80	121	49.2	2	20	
Xylenes (total)	150	5.0	150	0	100	76	124	153	2	20	
Surr: 1,2-Dichloroethane-d4	42.0	0.10	50	0	84	71	128	0		0	
Surr: Toluene-d8	51.7	0.10	50	0	103	75	125	0		0	
Surr: 4-Bromofluorobenzene	44.8	0.10	50	0	90	59	125	0		0	

Qualifiers: B Analyte detected in the associated Method Blank
 ND Not Detected at the Practical Quantitation Limit (PQL)
 U Not Detected at the MDC or RL

E Value exceeds the instrument calibration range
 R RPD exceeds accepted precision limit
 J Analyte detected below the PQL
 S Spike Recovery outside accepted recovery limits

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ANALYTICAL QC SUMMARY REPORT

Method: SW8260B
 Work Order: 0811131
 Project: Ithaca Dredging

CLIENT: ERM Consulting & Engineering

Sample ID: LCS-15608	SampType: LCS	TestCode: 8260S	Units: µg/Kg	Prep Date:	RunNo: 15608
Client ID: ZZZZZ	Batch ID: R15608	Method: SW8260B		Analysis Date: 11/24/08	SeqNo: 406820
Instrument: MS03_10	ColumnID: Rtx-VMS	Rtx-VMS, 1.0 df			

Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	45.2	2.5	50	0	90	80	121				
Ethylbenzene	52.2	2.5	50	0	104	80	121				
Toluene	48.9	2.5	50	0	98	80	121				
Xylenes (total)	156	5.0	150	0	104	76	124				
Surr: 1,2-Dichloroethane-d4	41.2	0.10	50	0	82	71	128				
Surr: Toluene-d8	51.2	0.10	50	0	102	75	125				
Surr: 4-Bromofluorobenzene	40.8	0.10	50	0	82	59	125				

Qualifiers: B Analyte detected in the associated Method Blank
 ND Not Detected at the Practical Quantitation Limit (PQL)
 U Not Detected at the MDC or RL
 E Value exceeds the instrument calibration range
 R RPD exceeds accepted precision limit
 J Analyte detected below the PQL
 S Spike Recovery outside accepted recovery limits

Life Science Laboratories, Inc.

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ANALYTICAL QC SUMMARY REPORT

Method: SW8260B
 Work Order: 0811131
 Project: Ithaca Dredging

CLIENT: ERM Consulting & Engineering

Sample ID:	LCSD-15608	SampType:	LCSD	TestCode:	8260S	Units:	µg/Kg	Prep Date:	RunNo:	15608	
Client ID:	ZZZZ	Batch ID:	R15608	Method:	SW8260B			Analysis Date:	SeqNo:	406821	
Instrument:	MS03_10	ColumnID:	Rtx-VMS		Rtx-VMS, 1.0 df						
Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	47.7	2.5	50	0	95	80	121	45.2	5	20	
Ethylbenzene	53.4	2.5	50	0	107	80	121	52.2	2	20	
Toluene	51.2	2.5	50	0	102	80	121	48.9	4	20	
Xylenes (total)	160	5.0	150	0	107	76	124	156	3	20	
Surr: 1,2-Dichloroethane-d4	40.8	0.10	50	0	82	71	128	0		0	
Surr: Toluene-d8	50.8	0.10	50	0	102	75	125	0		0	
Surr: 4-Bromofluorobenzene	42.0	0.10	50	0	84	59	125	0		0	

Qualifiers: B Analyte detected in the associated Method Blank
 ND Not Detected at the Practical Quantitation Limit (PQL)
 U Not Detected at the MDC or RL
 E Value exceeds the instrument calibration range
 R RPD exceeds accepted precision limit
 J Analyte detected below the PQL
 S Spike Recovery outside accepted recovery limits

Life Science Laboratories, Inc.

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ANALYTICAL QC SUMMARY REPORT

Method: SW8260B
 Work Order: 0811166
 Project: Ithaca Dredging

CLIENT: ERM Consulting & Engineering

Sample ID: LCS-15620	SampType: LCS	TestCode: 8260S	Units: µg/Kg	Prep Date:	RunNo: 15620
Client ID: ZZZZ	Batch ID: R15620	Method: SW8260B		Analysis Date: 11/25/2008	SeqNo: 407091
Instrument: MS03_10	ColumnID: Rbx-VMS	Rtx-VMS, 1.0 df			

Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	38.6	2.5	50	0	77	80	121				S
Ethylbenzene	43.1	2.5	50	0	86	80	121				
Toluene	41.5	2.5	50	0	83	80	121				
Xylenes (total)	128	5.0	150	0	86	76	124				
Surr: 1,2-Dichloroethane-d4	41.3	0.10	50	0	83	71	128				
Surr: Toluene-d8	50.6	0.10	50	0	101	75	125				
Surr: 4-Bromofluorobenzene	41.9	0.10	50	0	84	59	125				

Qualifiers: B Analyte detected in the associated Method Blank
 ND Not Detected at the Practical Quantitation Limit (PQL)
 U Not Detected at the MDC or RL
 E Value exceeds the instrument calibration range
 R RPD exceeds accepted precision limit
 J Analyte detected below the PQL
 S Spike Recovery outside accepted recovery limits

Life Science Laboratories, Inc.

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ANALYTICAL QC SUMMARY REPORT

Method: SW8260B
 Work Order: 0811166
 Project: Ithaca Dredging

CLIENT: ERM Consulting & Engineering

Sample ID:	LCS-15645	Batch ID:	R15645	Instrument:	MS03_10	QC Sample Result	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	37.3	50	50	2.5	0	75	80	121									S
Ethylbenzene	40.7	50	50	2.5	0	81	80	121									S
Toluene	39.5	50	50	2.5	0	79	80	121									S
Xylenes (total)	122	150	150	5.0	0	82	76	124									
Surr: 1,2-Dichloroethane-d4	43.1	50	50	0.10	0	86	71	128									
Surr: Toluene-d8	50.4	50	50	0.10	0	101	75	125									
Surr: 4-Bromofluorobenzene	42.4	50	50	0.10	0	85	59	125									

TestCode: 8260S
 Prep Date: 15645
 Method: SW8260B
 Analysis Date: 11/26/08
 Rbx-VMS, 1.0 df
 Units: µg/Kg
 RunNo: 15645
 SeqNo: 407503

Qualifiers: B Analyte detected in the associated Method Blank
 ND Not Detected at the Practical Quantitation Limit (PQL)
 U Not Detected at the MDC or RL
 E Value exceeds the instrument calibration range
 R RPD exceeds accepted precision limit
 J Analyte detected below the PQL
 S Spike Recovery outside accepted recovery limits

VOLATILE METHOD BLANK SUMMARY

MB-15605

Lab Name: Life Science Laboratorie Contract: _____

Lab Code: LSLE Case No.: ERM SAS No.: _____ SDG No.: 0811131B

Lab File ID: J7617.D Lab Sample ID: MB-15605

Date Analyzed: 11/21/2008 Time Analyzed: 12:56

GC Column: Rtx-VMS ID: 0.18 (mm) Heated Purge: (Y/N) Y

Instrument ID: MS03 10

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS-15605	LCS-15605	J7614.D	11:15
02	lth-2 (6-10)	0811131-003A	J7620.D	14:38
03	lth-6 (10-14)	0811131-006A	J7624.D	16:40
04	lth-8 (2-10)	0811142-001A	J7625.D	17:14
05	lth-7 (1-14)	0811142-003A	J7627.D	18:22
06	lth-5 (4-10)	0811142-004A	J7628.D	18:56
07	lth-5 (10-14)	0811142-005A	J7629.D	19:30
08	lth-1 (6-12)	0811142-006A	J7630.D	20:04
09	lth-Dup1	0811142-007A	J7631.D	20:38
10	lth-3 (6-12)	0811131-001A	J7632.D	21:12
11	lth-4 (6-12)	0811131-002A	J7633.D	21:46
12	LCSD-15605	LCSD-15605	J7635.D	22:54

COMMENTS:

Life Science Laboratories, Inc.

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East Syracuse, NY 13057

(315) 437-0200

ANALYTICAL QC SUMMARY REPORT

Method: SW8260B

Work Order: 0811131

Project: Ithaca Dredging

CLIENT: ERM Consulting & Engineering

Sample ID: MB-15605	SampType: MBLK	TestCode: 8260S	Units: µg/Kg	Prep Date: 11/21/08	RunNo: 15605
Client ID: ZZZZZ	Batch ID: R15605	Method: SW8260B		Analysis Date: 11/21/08	SeqNo: 406791
Instrument: MS03_10	ColumnID: Rtx-VMS	Rtx-VMS, 1.0 df			

Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	2.5									
Ethylbenzene	ND	2.5									
Toluene	ND	2.5									
Xylenes (total)	ND	5.0									
Surr: 1,2-Dichloroethane-d4	42.4	0.10	50	0	85	71	128				
Surr: Toluene-d8	53.1	0.10	50	0	106	75	125				
Surr: 4-Bromofluorobenzene	47.0	0.10	50	0	94	59	125				

Qualifiers: B Analyte detected in the associated Method Blank
 ND Not Detected at the Practical Quantitation Limit (PQL)
 U Not Detected at the MDC or RL

E Value exceeds the instrument calibration range
 R RPD exceeds accepted precision limit
 J Analyte detected below the PQL
 S Spike Recovery outside accepted recovery limits

VOLATILE METHOD BLANK SUMMARY

MB-15608

Lab Name: Life Science Laboratorie Contract: _____Lab Code: LSLB Case No.: ERM SAS No.: _____ SDG No.: 0811131BLab File ID: J7643.D Lab Sample ID: MB-15608Date Analyzed: 11/24/2008 Time Analyzed: 14:14GC Column: Rtx-VMS ID: 0.18 (mm) Heated Purge: (Y/N) YInstrument ID: MS03 10

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS-15608	LCS-15608	J7640.D	12:33
02	LCSD-15608	LCSD-15608	J7641.D	13:06
03	lth-2 (10-14)	0811131-004A	J7644.D	14:48
04	lth-6 (6-10)	0811131-005A	J7645.D	15:22
05	lth-8 (10-14)	0811142-002A	J7646.D	15:56
06	lth-8 (2-10)RA	0811142-001ARA	J7647.D	16:30
07	lth-2 (6-10)	0811131-003C	J7648.D	17:04
08	lth-9 (1-14)	0811166-001A	J7653.D	19:54
09	lth-10 (1-14)	0811166-002A	J7654.D	20:28
10	lth-12 (1-14)	0811166-004A	J7656.D	21:36
11	lth-14 (1-14)	0811166-006A	J7657.D	22:10
12	lth-13 (1-10)	0811166-007A	J7658.D	22:44
13	lth-13 (10-14)	0811166-008A	J7659.D	23:18

COMMENTS:

page 2 of 4

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ANALYTICAL QC SUMMARY REPORT

Method: SW8260B
 Work Order: 0811131
 Project: Ithaca Dredging

CLIENT: ERM Consulting & Engineering

Sample ID: MB-15608	SampType: MBLK	TestCode: 8260S	Units: µg/Kg	Prep Date:	RunNo: 15608
Client ID: ZZZZZ	Batch ID: R15608	Method: SW8260B		Analysis Date: 11/24/08	SeqNo: 406822
Instrument: MS03_10	ColumnID: Rtx-VMS	Rtx-VMS, 1.0 df			

Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	2.5									
Ethylbenzene	ND	2.5									
Toluene	ND	2.5									
Xylenes (total)	ND	5.0									
Surr: 1,2-Dichloroethane-d4	42.0	0.10	50	0	84	71	128				
Surr: Toluene-d8	53.7	0.10	50	0	107	75	125				
Surr: 4-Bromofluorobenzene	46.2	0.10	50	0	92	59	125				

Qualifiers: B Analyte detected in the associated Method Blank
 ND Not Detected at the Practical Quantitation Limit (PQL)
 U Not Detected at the MDC or RL
 E Value exceeds the instrument calibration range
 R RPD exceeds accepted precision limit
 J Analyte detected below the PQL
 S Spike Recovery outside accepted recovery limits

VOLATILE METHOD BLANK SUMMARY

MB-15620

Lab Name: Life Science Laboratorie Contract: _____

Lab Code: LSLB Case No.: ERM SAS No.: _____ SDG No.: 0811131B

Lab File ID: J7668.D Lab Sample ID: MB-15620

Date Analyzed: 11/25/2008 Time Analyzed: 12:34

GC Column: Rtx-VMS ID: 0.18 (mm) Heated Purge: (Y/N) Y

Instrument ID: MS03 10

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	MSB-15620	MSB-15620	J7664.D	8:56
02	LCS-15620	LCS-15620	J7664.D	8:56
03	lth-16 (1-14)MS	0811166-005AMS	J7665.D	9:42
04	lth-16 (1-14)MSD	0811166-005AMSD	J7666.D	11:26
05	lth-11 (1-14)	0811166-003A	J7669.D	13:08
06	lth-1 (1-6)	0811166-009A	J7670.D	13:42
07	lth-16 (1-14)	0811166-005A	J7671.D	14:16
08	lth-DUP2	0811166-010A	J7672.D	14:51
09	lth-2 (1-6)	0811166-011A	J7673.D	15:25
10	lth-4 (1-6)	0811166-013A	J7675.D	16:33
11	lth-6 (1-6)	0811166-014A	J7676.D	17:07
12	lth-2 (1-6)RA	0811166-011ARA	J7677.D	17:41

COMMENTS: _____

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ANALYTICAL QC SUMMARY REPORT

Method: SW8260B
 Work Order: 0811166
 Project: Ithaca Dredging

CLIENT: ERM Consulting & Engineering

Sample ID: MB-15620	SampType: MBLK	TestCode: 8260S	Units: µg/Kg	Prep Date: 11/25/2008	RunNo: 15620
Client ID: ZZZZZ	Batch ID: R15620	Method: SW8260B		Analysis Date: 11/25/2008	SeqNo: 407094
Instrument: MS03_10	ColumnID: Rtx-VMS		Rtx-VMS, 1.0 df		

Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	2.5									
Ethylbenzene	ND	2.5									
Toluene	ND	2.5									
Xylenes (total)	ND	5.0									
Surr: 1,2-Dichloroethane-d4	42.6	0.10	50	0	85	71	128				
Surr: Toluene-d8	53.3	0.10	50	0	107	75	125				
Surr: 4-Bromofluorobenzene	47.4	0.10	50	0	95	59	125				

Qualifiers: B Analyte detected in the associated Method Blank E Value exceeds the instrument calibration range J Analyte detected below the PQL
 ND Not Detected at the Practical Quantitation Limit (PQL) R RPD exceeds accepted precision limit S Spike Recovery outside accepted recovery limits
 U Not Detected at the MDC or RL

VOLATILE METHOD BLANK SUMMARY

MB-15645

Lab Name: Life Science Laboratorie Contract: _____

Lab Code: LSLB Case No.: ERM SAS No.: _____ SDG No.: 0811131B

Lab File ID: J7691.D Lab Sample ID: MB-15645

Date Analyzed: 11/26/2008 Time Analyzed: 13:27

GC Column: Rtx-VMS ID: 0.18 (mm) Heated Purge: (Y/N) Y

Instrument ID: MS03 10

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS-15645	LCS-15645	J7687.D	11:11
02	lth-3 (1-6)	0811166-012A	J7692.D	14:01

COMMENTS: _____

Life Science Laboratories, Inc.

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ANALYTICAL QC SUMMARY REPORT

Method: SW8260B

Work Order: 0811166

Project: Ithaca Dredging

CLIENT: ERM Consulting & Engineering

Sample ID: MB-15645	Samp Type: MBLK	Test Code: 8260S	Units: µg/Kg	Prep Date: 11/26/08	Run No: 15645
Client ID: ZZZZZ	Batch ID: R15645	Method: SW8260B		Analysis Date: 11/26/08	Seq No: 407504
Instrument: MS03_10	Column ID: Rtx-VMS	Rtx-VMS, 1.0 df			

Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	2.5									
Ethylbenzene	ND	2.5									
Toluene	ND	2.5									
Xylenes (total)	ND	5.0									
Surr: 1,2-Dichloroethane-d4	43.3	0.10	50	0	87	71	128				
Surr: Toluene-d8	53.1	0.10	50	0	106	75	125				
Surr: 4-Bromofluorobenzene	48.0	0.10	50	0	96	59	125				

Qualifiers: B Analyte detected in the associated Method Blank E Value exceeds the instrument calibration range J Analyte detected below the PQL
 ND Not Detected at the Practical Quantitation Limit (PQL) R RPD exceeds accepted precision limit S Spike Recovery outside accepted recovery limits
 U Not Detected at the MDC or RL

02-Dec-08

INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Life Science Laboratories, Inc.SDG No.: 0811131BLab Code: LSLB

Lab File ID (Standard):

J7613.DDate Analyzed: 11/21/2008Instrument ID: MS03_10Time Analyzed: 10:41GC Column: Rbx-VMS ID: 0.18 (mm)Heated Purge: (Y/N) Y

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #		
12 HOUR STD	2370333	10.90	894097	15.81	772102	19.88		
UPPER LIMIT	4740666	11.40	1788194	16.31	1544204	20.38		
LOWER LIMIT	1185167	10.40	447049	15.31	386051	19.38		
SAMPLE NO.								
01 LCS-15605 (LCS-15605)	2399564	10.90	932376	15.81	793570	19.88		
02 MB-15605 (MB-15605)	2277467	10.90	855045	15.82	629992	19.88		
03 lth-2 (6-10) (0811131-003A)	1757314	10.90	492620	15.81	251938*	19.88		
04 lth-6 (10-14) (0811131-006A)	2235483	10.90	770894	15.82	434904	19.88		
05 lth-8 (2-10) (0811142-001A)	1987828	10.90	611413	15.81	317670*	19.88		
06 lth-7 (1-14) (0811142-003A)	2211415	10.90	755520	15.81	451801	19.88		
07 lth-5 (4-10) (0811142-004A)	2217691	10.90	718268	15.81	391658	19.88		
08 lth-5 (10-14) (0811142-005A)	2377877	10.90	864955	15.81	600434	19.88		
09 lth-1 (6-12) (0811142-006A)	2300991	10.90	788749	15.81	503217	19.88		
10 lth-Dup1 (0811142-007A)	2195132	10.90	749427	15.81	435741	19.88		
11 lth-3 (6-12) (0811131-001A)	2294731	10.90	948820	15.81	761267	19.88		
12 lth-4 (6-12) (0811131-002A)	2361997	10.90	809919	15.82	476842	19.88		
13 LCSD-15605 (LCSD-15605)	2190425	10.90	818253	15.81	600872	19.88		

IS1 = Fluorobenzene

IS3 = 1,4-Dichlorobenzene-d4

IS2 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

lab Name: Life Science Laboratories, Inc.SDG No.: 0811131Blab Code: LSLB

lab File ID (Standard):

J7638.D

Date Analyzed:

11/24/2008

Instrument ID:

MS03_10

Time Analyzed:

11:18

Injection Column:

Rtx-VMS ID: 0.18 (mm)

Heated Purge: (Y/N)

Y

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #		
12 HOUR STD	2412138	10.90	938367	15.81	768156	19.88		
UPPER LIMIT	4824276	11.40	1876734	16.31	1536312	20.38		
LOWER LIMIT	1206069	10.40	469184	15.31	384078	19.38		
SAMPLE NO.								
01 LCS-15608 (LCS-15608)	2432346	10.90	935415	15.81	807890	19.88		
02 LCSD-15608 (LGSD-15608)	2457598	10.90	954651	15.81	791797	19.88		
03 MB-15608 (MB-15608)	2411688	10.90	893964	15.81	659915	19.88		
04 Ith-2 (10-14) (0811131-004A)	2277463	10.90	773641	15.81	455223	19.88		
05 Ith-6 (6-10) (0811131-005A)	2365720	10.90	801314	15.82	446590	19.88		
06 Ith-8 (10-14) (0811142-002A)	2290634	10.90	831829	15.81	556906	19.88		
07 Ith-8 (2-10)RA (0811142-001ARA)	2057477	10.90	612116	15.81	325262*	19.88		
08 Ith-2 (6-10) (0811131-003C)	2282163	10.90	808385	15.81	519554	19.88		
09 Ith-9 (1-14) (0811166-001A)	2213588	10.90	740321	15.82	417600	19.88		
10 Ith-10 (1-14) (0811166-002A)	2212483	10.90	770225	15.82	486552	19.88		
11 Ith-12 (1-14) (0811166-004A)	2260766	10.90	786747	15.82	476074	19.88		
12 Ith-14 (1-14) (0811166-006A)	2252218	10.90	742167	15.81	409826	19.88		
13 Ith-13 (1-10) (0811166-007A)	2327248	10.90	884585	15.82	633250	19.88		
14 Ith-13 (10-14) (0811166-008A)	2202249	10.90	762451	15.81	451935	19.88		

IS1 = Fluorobenzene

IS3 = 1,4-Dichlorobenzene-d4

IS2 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Life Science Laboratories, Inc.SDG No.: 0811131BLab Code: LSLB

Lab File ID (Standard):

J7663.D

Date Analyzed:

11/25/2008

Instrument ID:

MS03_10

Time Analyzed:

8:22

GC Column:

Rtx-VMS ID: 0.18

(mm)

Heated Purge: (Y/N)

Y

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #		
12 HOUR STD	2175193	10.90	860694	15.81	706313	19.88		
UPPER LIMIT	4350386	11.40	1721388	16.31	1412626	20.38		
LOWER LIMIT	1087597	10.40	430347	15.31	353157	19.38		
SAMPLE NO.								
01 LCS-15620 (LCS-15620)	2325277	10.90	905732	15.81	747050	19.88		
02 MSB-15620 (MSB-15620)	2325277	10.90	905732	15.81	747050	19.88		
03 Ith-16 (1-14)MS (0811166-005AMS)	2489207	10.90	909197	15.81	645379	19.88		
04 Ith-16 (1-14)MSD (0811166-005AMSD)	2425441	10.90	824166	15.82	520428	19.88		
05 MB-15620 (MB-15620)	2302952	10.90	872999	15.82	630561	19.88		
06 Ith-11 (1-14) (0811166-003A)	2222385	10.90	746593	15.82	411485	19.88		
07 Ith-1 (1-6) (0811166-009A)	2148260	10.90	731312	15.82	386463	19.88		
08 Ith-16 (1-14) (0811166-005A)	2242339	10.90	798385	15.81	505163	19.88		
09 Ith-DUP2 (0811166-010A)	2140666	10.90	716623	15.82	408182	19.88		
10 Ith-2 (1-6) (0811166-011A)	2002250	10.90	636555	15.82	317324*	19.88		
11 Ith-4 (1-6) (0811166-013A)	2043379	10.90	673819	15.82	356317	19.88		
12 Ith-6 (1-6) (0811166-014A)	1994839	10.90	669743	15.81	380871	19.88		
13 Ith-2 (1-6)RA (0811166-011ARA)	1947886	10.90	631865	15.82	309284*	19.88		

IS1 = Fluorobenzene

IS3 = 1,4-Dichlorobenzene-d4

IS2 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Life Science Laboratories, Inc.SDG No.: 0811131BLab Code: LSLB

Lab File ID (Standard):

J7686.D

Date Analyzed:

11/26/2008

Instrument ID:

MS03_10

Time Analyzed:

10:37

GC Column:

Rtx-VMS ID: 0.18

(mm)

Heated Purge: (Y/N)

Y

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #		
12 HOUR STD	2090325	10.90	839559	15.82	692571	19.88		
UPPER LIMIT	4180650	11.40	1679118	16.32	1385142	20.38		
LOWER LIMIT	1045163	10.40	419780	15.32	346286	19.38		
SAMPLE NO.								
01 LCS-15645 (LCS-15645)	2285753	10.90	892578	15.81	733189	19.88		
02 MB-15645 (MB-15645)	2270018	10.90	865299	15.82	620999	19.88		
03 Ith-3 (1-6) (0811166-012A)	2114714	10.90	698220	15.82	351845	19.88		

IS1 = Fluorobenzene

IS3 = 1,4-Dichlorobenzene-d4

IS2 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

GC/MS Semivolatile Organics Data

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: Life Science Laboratories, Inc Contract: _____

Lab Code: LSLB Case No.: ERM SAS No. _____ SDG No.: 0811131B

Level: (low/med) LOW

	EPA SAMPLE NO.	LSL ID	S1 (2FP) 1 #	S2 (FBP) 1 #	S3 (NBZ) 1 #	S4 (PHL) 1 #	S5 (TBP) 1 #	S6 (TPH) 1 #	TOT OUT
01	MB-8508	MB-8508	78	78	80	83	51	86	0
02	LCS-8508	LCS-8508	75	71	75	79	56	77	0
03	LCSD-8508	LCSD-8508	82	78	82	85	60	82	0
04	Ith-3 (6-12)	0811131-001D	78	77	78	81	58	85	0
05	Ith-4 (6-12)	0811131-002D	67	67	68	72	52	74	0
06	Ith-2 (6-10)	0811131-003D	72	71	71	75	55	93	0
07	Ith-2 (10-14)	0811131-004D	77	75	75	80	58	86	0
08	Ith-6 (6-10)	0811131-005D	71	69	69	75	52	80	0
09	Ith-6 (10-14)	0811131-006D	74	72	73	79	55	85	0
10	Ith-8 (2-10)	0811142-001D	77	78	77	83	58	94	0
11	Ith-8 (10-14)	0811142-002D	72	70	72	77	53	82	0
12	Ith-7 (1-14)	0811142-003D	71	68	68	74	51	78	0
13	Ith-5 (4-10)	0811142-004D	73	73	70	79	56	86	0
14	Ith-5 (10-14)	0811142-005D	67	65	66	72	49	77	0
15	Ith-1 (6-12)	0811142-006D	73	72	71	77	53	85	0
16	Ith-Dupl	0811142-007D	74	73	72	79	55	88	0
17	Ith-2 (6-10)DL	0811131-003DDL	69	65	72	74	46	74	0
18	MB-8521	MB-8521	82	83	80	86	55	95	0
19	LCS-8521	LCS-8521	85	83	82	89	64	89	0
20	MSB-8521	MSB-8521	89	84	85	93	68	90	0
21	Ith-12 (1-14)	0811166-004D	80	78	77	84	62	88	0
22	Ith-14 (1-14)	0811166-006D	79	81	77	84	63	90	0
23	Ith-13 (1-10)	0811166-007D	73	74	71	78	59	85	0
24	Ith-13 (10-14)	0811166-008D	76	75	73	81	58	85	0
25	Ith-16 (1-14)	0811166-005D	80	81	80	85	62	91	0
26	Ith-16 (1-14)MS	0811166-005DMS	79	78	76	84	63	87	0
27	Ith-16 (1-14)MSD	0811166-005DMSD	80	77	77	84	60	82	0

QC Limit

S 1 (2FP) 1 = 2-Fluorophenol	22-130
S 2 (FBP) 1 = 2-Fluorobiphenyl	46-130
S 3 (NBZ) 1 = Nitrobenzene-d5	39-130
S 4 (PHL) 1 = Phenol-d5	33-130
S 5 (TBP) 1 = 2,4,6-Tribromophenol	20-143
S 6 (TPH) 1 = Terphenyl-d14	36-146

Column to be used to flag recovery values

* Values outside of contract required QC limits

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: Life Science Laboratories, Inc Contract: _____

Lab Code: LSLB Case No.: ERM SAS No. _____ SDG No.: 0811131B

Level: (low/med) LOW

	EPA SAMPLE NO.	LSL ID	S1 (2FP) 1 #	S2 (FBP) 1 #	S3 (NBZ) 1 #	S4 (PHL) 1 #	S5 (TBP) 1 #	S6 (TPH) 1 #	TOT OUT
28	Ith-9 (1-14)	0811166-001D	73	72	70	77	58	86	0
29	Ith-10 (1-14)	0811166-002D	73	74	72	77	58	85	0
30	Ith-11 (1-14)	0811166-003D	59	61	59	64	55	82	0
31	Ith-DUP2	0811166-010D	75	75	72	79	58	84	0
32	Ith-4 (1-6)	0811166-013D	79	80	77	84	67	96	0
33	Ith-6 (1-6)	0811166-014D	80	81	76	87	65	95	0
34	Ith-1 (1-6)	0811166-009D	84	84	81	88	64	94	0
35	Ith-2 (1-6)	0811166-011D	84	82	80	88	66	96	0
36	Ith-3 (1-6)	0811166-012D	87	83	86	98	72	105	0

QC Limit

S1 (2FP) 1 = 2-Fluorophenol	22-130
S2 (FBP) 1 = 2-Fluorobiphenyl	46-130
S3 (NBZ) 1 = Nitrobenzene-d5	39-130
S4 (PHL) 1 = Phenol-d5	33-130
S5 (TBP) 1 = 2,4,6-Tribromophenol	20-143
S6 (TPH) 1 = Terphenyl-d14	36-146

Column to be used to flag recovery values

* Values outside of contract required QC limits

Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200
 East Syracuse, NY 13057 (315) 437-0200

ANALYTICAL QC SUMMARY REPORT

Method: SW8270C
 Work Order: 0811166
 Project: Ithaca Dredging

CLIENT: ERM Consulting & Engineering

Sample ID: 0811166-005DMS SampType: MS TestCode: 8270S Units: µg/Kg-dry Prep Date: 11/24/2008 RunNo: 15678
 Client ID: Ith-16 (1-14) Batch ID: 8521 Method: SW8270C (SW3550B) Analysis Date: 12/3/2008 SeqNo: 408353
 Instrument: MS06_40 ColumnID: DB-5MS ZB-5, 0.5 df

Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Chloronaphthalene	1740	440	2230	0	78	46	130				
2-Methylnaphthalene	1590	440	2230	0	72	43	130				
Acenaphthene	1750	440	2230	0	79	43	130				
Acenaphthylene	1730	440	2230	0	78	46	130				
Anthracene	2050	440	2230	0	92	37	130				
Benzo[a]anthracene	1840	440	2230	0	82	40	130				
Benzo[a]pyrene	1980	440	2230	0	89	44	130				
Benzo[b]fluoranthene	1970	440	2230	0	89	29	154				
Benzo[g,h,i]perylene	1890	440	2230	0	85	10	130				
Benzo[k]fluoranthene	2120	440	2230	0	95	35	143				
Chrysene	1990	440	2230	0	89	43	130				
Dibenz[a,h]anthracene	2130	440	2230	0	96	16	135				
Fluoranthene	1990	440	2230	0	89	45	130				
Fluorene	1720	440	2230	0	77	45	130				
Indeno[1,2,3-cd]pyrene	1660	440	2230	0	74	10	134				
Naphthalene	1730	440	2230	0	77	40	130				
Phenanthrene	2050	440	2230	0	92	45	130				
Pyrene	1960	440	2230	0	88	18	164				
Surr: 2,4,6-Tribromophenol	4210	0	6680	0	63	20	143				
Surr: 2-Fluorobiphenyl	3480	0	4460	0	78	46	130				
Surr: 2-Fluorophenol	5260	0	6680	0	79	22	130				
Surr: Nitrobenzene-d5	3380	0	4460	0	76	39	130				
Surr: Phenol-d5	5590	0	6680	0	84	33	130				
Surr: Terphenyl-d14	3860	0	4460	0	87	36	146				

Qualifiers: B Analyte detected in the associated Method Blank E Value exceeds the instrument calibration range J Analyte detected below the PQL
 ND Not Detected at the Practical Quantitation Limit (PQL) R RPD exceeds accepted precision limit S Spike Recovery outside accepted recovery limits
 U Not Detected at the MDC or RL

Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200
 East Syracuse, NY 13057 (315) 437-0200

ANALYTICAL QC SUMMARY REPORT

Method: SW8270C
 Work Order: 0811166
 Project: Ithaca Dredging

CLIENT: ERM Consulting & Engineering

Sample ID: 0811166-005DMSD Samp Type: MSD Test Code: 8270S Units: µg/Kg-dry Run No: 15678
 Client ID: Ith-16 (1-14) Batch ID: 8521 Method: SW8270C (SW3550B) Analysis Date: 12/3/2008 Seq No: 408354
 Instrument: MS06_40 ColumnID: DB-5MS ZB-5, 0.5 df

Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Chloronaphthalene	1720	440	2230	0	77	45	130	1740	1	30	
2-Methylnaphthalene	1610	440	2230	0	72	43	130	1590	1	35	
Acenaphthene	1710	440	2230	0	77	43	130	1750	2	30	
Acenaphthylene	1680	440	2230	0	76	46	130	1730	3	30	
Anthracene	1990	440	2230	0	89	37	130	2050	3	30	
Benzofluranthene	1760	440	2230	0	79	40	130	1840	4	30	
Benzofluranthene	1880	440	2230	0	85	44	130	1980	5	30	
Benzofluranthene	1880	440	2230	0	84	29	154	1970	5	32	
Benzofluranthene	1800	440	2230	0	81	10	130	1890	5	30	
Benzofluranthene	2010	440	2230	0	90	35	143	2120	5	30	
Chrysene	1910	440	2230	0	86	43	130	1990	4	30	
Dibenz[a,h]anthracene	2030	440	2230	0	91	16	135	2130	5	30	
Fluoranthene	1960	440	2230	0	88	45	130	1990	1	30	
Fluorene	1690	440	2230	0	76	45	130	1720	2	30	
Indeno[1,2,3-cd]pyrene	1590	440	2230	0	72	10	134	1660	4	30	
Naphthalene	1740	440	2230	0	78	40	130	1730	1	33	
Phenanthrene	1980	440	2230	0	89	45	130	2050	3	30	
Pyrene	1830	440	2230	0	82	18	164	1960	7	30	
Surr: 2,4,6-Tribromophenol	3990	0	6680	0	60	20	143	0	0	0	
Surr: 2-Fluorobiphenyl	3420	0	4460	0	77	46	130	0	0	0	
Surr: 2-Fluorophenol	5320	0	6680	0	80	22	130	0	0	0	
Surr: Nitrobenzene-d5	3440	0	4460	0	77	39	130	0	0	0	
Surr: Phenol-d5	5600	0	6680	0	84	33	130	0	0	0	
Surr: Terphenyl-d14	3640	0	4460	0	82	36	146	0	0	0	

Qualifiers: B Analyte detected in the associated Method Blank
 ND Not Detected at the Practical Quantitation Limit (PQL)
 U Not Detected at the MDC or RL
 E Value exceeds the instrument calibration range
 R RPD exceeds accepted precision limit
 J Analyte detected below the PQL
 S Spike Recovery outside accepted recovery limits

Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200
 East Syracuse, NY 13057 (315) 437-0200

ANALYTICAL QC SUMMARY REPORT

Method: SW8270C
 Work Order: 0811166
 Project: Ithaca Dredging

CLIENT: ERM Consulting & Engineering

Sample ID: MSB-8521 Samp Type: MSB Test Code: 8270S Units: µg/Kg Prep Date: 11/24/2008 Run No: 15678
 Client ID: ZZZZZ Batch ID: 8521 Method: SW8270C (SW3550B) Analysis Date: 12/3/2008 Seq No: 408347
 Instrument: MS06_40 Column ID: DB-5MS ZB-5, 0.5 df

Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Chloronaphthalene	1400	330	1670	0	84	46	130				
2-Methylnaphthalene	1330	330	1670	0	80	43	130				
Acenaphthene	1390	330	1670	0	83	43	130				
Acenaphthylene	1390	330	1670	0	84	46	130				
Anthracene	1660	330	1670	0	99	37	130				
Benzo[a]anthracene	1500	330	1670	0	90	40	130				
Benzo[a]pyrene	1610	330	1670	0	97	44	130				
Benzo[b]fluoranthene	1560	330	1670	0	93	29	154				
Benzo[g,h,i]perylene	1670	330	1670	0	100	10	130				
Benzo[k]fluoranthene	1640	330	1670	0	98	35	143				
Chrysene	1610	330	1670	0	97	43	130				
Dibenz[a,h]anthracene	1800	330	1670	0	108	16	135				
Fluoranthene	1660	330	1670	0	100	45	130				
Fluorene	1410	330	1670	0	85	45	130				
Indeno[1,2,3-cd]pyrene	1470	330	1670	0	88	10	134				
Naphthalene	1430	330	1670	0	86	40	130				
Phenanthrene	1670	330	1670	0	100	45	130				
Pyrene	1540	330	1670	0	93	18	164				
Surr: 2,4,6-Tribromophenol	3380	0	5000	0	68	20	143				
Surr: 2-Fluorobiphenyl	2800	0	3330	0	84	46	130				
Surr: 2-Fluorophenol	4430	0	5000	0	89	22	130				
Surr: Nitrobenzene-d5	2830	0	3330	0	85	39	130				
Surr: Phenol-d5	4670	0	5000	0	93	33	130				
Surr: Terphenyl-d14	3020	0	3330	0	60	36	146				

Qualifiers: B Analyte detected in the associated Method Blank E Value exceeds the instrument calibration range J Analyte detected below the PQL
 ND Not Detected at the Practical Quantitation Limit (PQL) R RPD exceeds accepted precision limit S Spike Recovery outside accepted recovery limits
 U Not Detected at the MDC or RL

Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200
 East Syracuse, NY 13057 (315) 437-0200

ANALYTICAL QC SUMMARY REPORT

Method: SW8270C
 Work Order: 0811131
 Project: Ithaca Dredging

CLIENT: ERM Consulting & Engineering

Sample ID: LCS-8508	SampType: LCS	TestCode: 8270S	Units: µg/Kg	Prep Date: 11/21/2008	RunNo: 15641
Client ID: ZZZZZ	Batch ID: 8508	Method: SW8270C	(SW3550B)	Analysis Date: 12/1/2008	SeqNo: 407336
Instrument: MS06_40	ColumnID: DB-5MS	ZB-5, 0.5 df			

Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Chloronaphthalene	1200	330	1670	0	72	49	126				
2-Methylnaphthalene	1190	330	1670	0	71	44	125				
Acenaphthene	1200	330	1670	0	72	49	125				
Acenaphthylene	1190	330	1670	0	72	47	125				
Anthracene	1370	330	1670	0	82	60	125				
Benzo[a]anthracene	1200	330	1670	0	72	60	125				
Benzo[a]pyrene	1290	330	1670	0	77	53	129				
Benzo[b]fluoranthene	1220	330	1670	0	73	55	126				
Benzo[g,h,i]perylene	1310	330	1670	0	78	51	134				
Benzo[k]fluoranthene	1350	330	1670	0	81	49	132				
Chrysene	1290	330	1670	0	77	55	127				
Dibenz[a,h]anthracene	1350	330	1670	0	81	47	142				
Fluoranthene	1330	330	1670	0	80	54	131				
Fluorene	1140	330	1670	0	69	50	126				
Indeno[1,2,3-cd]pyrene	1100	330	1670	0	66	48	138				
Naphthalene	1280	330	1670	0	76	46	125				
Phenanthrene	1380	330	1670	0	83	58	125				
Pyrene	1270	330	1670	0	76	55	127				
Surr: 2,4,6-Tribromophenol	2780	0	5000	0	56	20	143				
Surr: 2-Fluorobiphenyl	2350	0	3330	0	71	46	130				
Surr: 2-Fluorophenol	3730	0	5000	0	75	22	130				
Surr: Nitrobenzene-d5	2510	0	3330	0	75	39	130				
Surr: Phenol-d5	3970	0	5000	0	79	33	130				
Surr: Terphenyl-d14	2560	0	3330	0	77	36	146				

Qualifiers: B Analyte detected in the associated Method Blank
 ND Not Detected at the Practical Quantitation Limit (PQL)
 U Not Detected at the MDC or RL

E Value exceeds the instrument calibration range
 R RPD exceeds accepted precision limit

J Analyte detected below the PQL
 S Spike Recovery outside accepted recovery limits

02-Dec-08

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Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200
 East Syracuse, NY 13057 (315) 437-0200

ANALYTICAL QC SUMMARY REPORT

Method: SW8270C
 Work Order: 0811131
 Project: Ithaca Dredging

CLIENT: ERM Consulting & Engineering

Sample ID: LCSD-8508	SampType: LCSD	TestCode: 8270S	Units: µg/Kg	Prep Date: 11/21/2008	RunNo: 15641
Client ID: ZZZZZ	Batch ID: 8508	Method: SW8270C	(SW3550B)	Analysis Date: 12/1/2008	SeqNo: 407337
Instrument: MS06_40	ColumnID: DB-5MS	ZB-5, 0.5 df			

Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Chloronaphthalene	1340	330	1670	0	80	49	126	1200	11	30	
2-Methylnaphthalene	1290	330	1670	0	77	44	125	1190	8	35	
Acenaphthene	1310	330	1670	0	79	49	125	1200	9	30	
Acenaphthylene	1310	330	1670	0	78	47	125	1190	9	30	
Anthracene	1480	330	1670	0	88	60	125	1370	7	30	
Benzo[a]anthracene	1270	330	1670	0	76	60	125	1200	6	30	
Benzo[a]pyrene	1380	330	1670	0	83	53	129	1290	7	30	
Benzo[b]fluoranthene	1340	330	1670	0	80	55	126	1220	9	32	
Benzo[g,h,i]perylene	1380	330	1670	0	83	51	134	1310	5	30	
Benzo[k]fluoranthene	1420	330	1670	0	85	49	132	1350	5	30	
Chrysene	1380	330	1670	0	83	55	127	1290	7	30	
Dibenz[a,h]anthracene	1460	330	1670	0	87	47	142	1350	8	30	
Fluoranthene	1420	330	1670	0	85	54	131	1330	7	30	
Fluorene	1240	330	1670	0	75	50	126	1140	8	30	
Indeno[1,2,3-cd]pyrene	1180	330	1670	0	70	48	138	1100	6	30	
Naphthalene	1390	330	1670	0	83	46	125	1280	8	33	
Phenanthrene	1470	330	1670	0	88	58	125	1380	6	30	
Pyrene	1360	330	1670	0	82	55	127	1270	7	30	
Surr. 2,4,6-Tribromophenol	3000	0	5000	0	60	20	143	0	0	0	
Surr. 2-Fluorobiphenyl	2610	0	3330	0	78	46	130	0	0	0	
Surr. 2-Fluorophenol	4110	0	5000	0	82	22	130	0	0	0	
Surr. Nitrobenzene-d5	2740	0	3330	0	82	39	130	0	0	0	
Surr. Phenol-d5	4250	0	5000	0	85	33	130	0	0	0	
Surr. Terphenyl-d14	2730	0	3330	0	82	36	146	0	0	0	

Qualifiers: B Analyte detected in the associated Method Blank
 ND Not Detected at the Practical Quantitation Limit (PQL)
 U Not Detected at the MDC or RL

E Value exceeds the instrument calibration range
 R RPD exceeds accepted precision limit
 J Analyte detected below the PQL
 S Spike Recovery outside accepted recovery limits

Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200
 East Syracuse, NY 13057 (315) 437-0200

ANALYTICAL QC SUMMARY REPORT

Method: SW8270C
 Work Order: 0811166
 Project: Ithaca Dredging

CLIENT: ERM Consulting & Engineering

Sample ID: LCS-8521	SampType: LCS	TestCode: 8270S	Units: µg/Kg	Prep Date: 11/24/2008	RunNo: 15678
Client ID: ZZZZZ	Batch ID: 8521	Method: SW8270C	(SW3550B)	Analysis Date: 12/3/2008	SeqNo: 408346
Instrument: MS06_40	ColumnID: DB-5MS	ZB-5, 0.5 df			

Analyte	QC Sample Result	FQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Chloronaphthalene	1380	330	1670	0	83	49	126				
2-Methylnaphthalene	1290	330	1670	0	77	44	125				
Acenaphthene	1380	330	1670	0	83	49	125				
Acenaphthylene	1360	330	1670	0	81	47	125				
Anthracene	1560	330	1670	0	93	60	125				
Benzo[a]anthracene	1440	330	1670	0	86	60	125				
Benzo[a]pyrene	1530	330	1670	0	92	53	129				
Benzo[b]fluoranthene	1460	330	1670	0	88	55	126				
Benzo[g,h,i]perylene	1610	330	1670	0	97	51	134				
Benzo[k]fluoranthene	1580	330	1670	0	95	49	132				
Chrysene	1550	330	1670	0	93	55	127				
Dibenz[a,h]anthracene	1740	330	1670	0	105	47	142				
Fluoranthene	1550	330	1670	0	93	54	131				
Fluorene	1350	330	1670	0	81	50	126				
Indeno[1,2,3-cd]pyrene	1450	330	1670	0	87	48	138				
Naphthalene	1410	330	1670	0	85	46	125				
Phenanthrene	1570	330	1670	0	94	58	125				
Pyrene	1490	330	1670	0	89	55	127				
Surr: 2,4,6-Tribromophenol	3200	0	5000	0	64	20	143				
Surr: 2-Fluorobiphenyl	2780	0	3330	0	83	46	130				
Surr: 2-Fluorophenol	4260	0	5000	0	85	22	130				
Surr: Nitrobenzene-d5	2750	0	3330	0	82	39	130				
Surr: Phenol-d5	4470	0	5000	0	89	33	130				
Surr: Terphenyl-d14	2950	0	3330	0	89	36	146				

Qualifiers: B Analyte detected in the associated Method Blank
 ND Not Detected at the Practical Quantitation Limit (PQL)
 U Not Detected at the MDC or RL
 E Value exceeds the instrument calibration range
 R RPD exceeds accepted precision limit
 J Analyte detected below the PQL
 S Spike Recovery outside accepted recovery limits

MB-8508

Lab Name: Life Science LaboratorieContract: Life ScienceLab Code: LSLBCase No.: ERM

SAS No.: _____

SDG No.: 0811131BLab File ID: K5195.DLab Sample ID: MB-8508Instrument ID: MS06 40Date Extracted: 11/21/2008Matrix: (soil/water) SOILDate Analyzed: 12/1/2008

Level: (low/med)

Time Analyzed: 8:51

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS-8508	LCS-8508	K5196.D	9:30
02	LCSD-8508	LCSD-8508	K5197.D	10:09
03	lth-3 (6-12)	0811131-001D	K5198.D	10:47
04	lth-4 (6-12)	0811131-002D	K5199.D	11:26
05	lth-2 (6-10)	0811131-003D	K5200.D	12:05
06	lth-2 (10-14)	0811131-004D	K5201.D	12:44
07	lth-6 (6-10)	0811131-005D	K5202.D	13:23
08	lth-6 (10-14)	0811131-006D	K5203.D	14:02
09	lth-8 (2-10)	0811142-001D	K5204.D	14:41
10	lth-8 (10-14)	0811142-002D	K5205.D	15:19
11	lth-7 (1-14)	0811142-003D	K5206.D	15:58
12	lth-5 (4-10)	0811142-004D	K5207.D	16:37
13	lth-5 (10-14)	0811142-005D	K5208.D	17:16
14	lth-1 (6-12)	0811142-006D	K5209.D	17:55
15	lth-Dup1	0811142-007D	K5210.D	18:34
16	lth-2 (6-10)DL	0811131-003DDL	K5211.D	19:12

COMMENTS:

Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200
 East Syracuse, NY 13057 (315) 437-0200

ANALYTICAL QC SUMMARY REPORT

Method: SW8270C
 Work Order: 0811131
 Project: Ithaca Dredging

CLIENT: ERM Consulting & Engineering

Sample ID: MB-8508	SampType: MBLK	TestCode: 9270S	Units: µg/Kg	Prep Date: 11/21/2008	RunNo: 15641
Client ID: ZZZZZ	Batch ID: 8508	Method: SW8270C	(SW3550B)	Analysis Date: 12/1/2008	SeqNo: 407335
Instrument: MS06_40	ColumnID: DB-5MS	ZB-5, 0.5 df			

Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Chloronaphthalene	ND	330									
2-Methylnaphthalene	ND	330									
Acenaphthene	ND	330									
Acenaphthylene	ND	330									
Anthracene	ND	330									
Benzo[a]anthracene	ND	330									
Benzo[a]pyrene	ND	330									
Benzo[b]fluoranthene	ND	330									
Benzo[g,h,i]perylene	ND	330									
Benzo[k]fluoranthene	ND	330									
Chrysene	ND	330									
Dibenz[a,h]anthracene	ND	330									
Fluoranthene	ND	330									
Fluorene	ND	330									
Indeno[1,2,3-cd]pyrene	ND	330									
Naphthalene	ND	330									
Phenanthrene	ND	330									
Pyrene	ND	330									
Surr: 2,4,6-Tribromophenol	2530	0	5000	0	51	20	143				
Surr: 2-Fluorobiphenyl	2580	0	3330	0	78	46	130				
Surr: 2-Fluorophenol	3880	0	5000	0	78	22	130				
Surr: Nitrobenzene-d5	2660	0	3330	0	80	39	130				
Surr: Phenol-d5	4150	0	5000	0	83	33	130				
Surr: Terphenyl-d14	2860	0	3330	0	86	36	146				

Qualifiers: B Analyte detected in the associated Method Blank
 ND Not Detected at the Practical Quantitation Limit (PQL)
 U Not Detected at the MDC or RL

E Value exceeds the instrument calibration range
 R RPD exceeds accepted precision limit

J Analyte detected below the PQL
 S Spike Recovery outside accepted recovery limits

MB-8521

Lab Name: Life Science LaboratorieContract: Life ScienceLab Code: LSLBCase No.: ERM

SAS No.: _____

SDG No.: 0811131BLab File ID: K5214.DLab Sample ID: MB-8521Instrument ID: MS06 40Date Extracted: 11/24/2008Matrix: (soil/water) SOILDate Analyzed: 12/3/2008

Level: (low/med)

Time Analyzed: 12:01

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS-8521	LCS-8521	K5215.D	12:40
02	MSB-8521	MSB-8521	K5216.D	13:18
03	lth-12 (1-14)	0811166-004D	K5217.D	13:57
04	lth-14 (1-14)	0811166-006D	K5218.D	14:36
05	lth-13 (1-10)	0811166-007D	K5219.D	15:14
06	lth-13 (10-14)	0811166-008D	K5220.D	15:53
07	lth-16 (1-14)	0811166-005D	K5221.D	16:32
08	lth-16 (1-14)MS	0811166-005DMS	K5222.D	17:10
09	lth-16 (1-14)MSD	0811166-005DMSD	K5223.D	17:49
10	lth-9 (1-14)	0811166-001D	K5224.D	18:28
11	lth-10 (1-14)	0811166-002D	K5225.D	19:07
12	lth-11 (1-14)	0811166-003D	K5226.D	19:46
13	lth-DUP2	0811166-010D	K5227.D	20:25
14	lth-4 (1-6)	0811166-013D	K5228.D	21:04
15	lth-6 (1-6)	0811166-014D	K5229.D	21:43
16	lth-1 (1-6)	0811166-009D	K5230.D	22:22
17	lth-2 (1-6)	0811166-011D	K5231.D	23:01
18	lth-3 (1-6)	0811166-012D	K5235.D	13:51

COMMENTS:

page 2 of 2

Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200
 East Syracuse, NY 13057 (315) 437-0200

ANALYTICAL QC SUMMARY REPORT

Method: SW8270C
 Work Order: 0811166
 Project: Ithaca Dredging

CLIENT: ERM Consulting & Engineering

Sample ID: MB-8521	SampType: MBLK	TestCode: 8270S	Units: µg/Kg	Prep Date: 11/24/2008	RunNo: 15678
Client ID: ZZZZZ	Batch ID: 8521	Method: SW8270C	(SW3550B)	Analysis Date: 12/3/2008	SeqNo: 408345
Instrument: MS06_40	ColumnID: DB-5MS	ZB-5, 0.5 df			

Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Chloronaphthalene	ND	330									
2-Methylnaphthalene	ND	330									
Acenaphthene	ND	330									
Acenaphthylene	ND	330									
Anthracene	ND	330									
Benzo[a]anthracene	ND	330									
Benzo[a]pyrene	ND	330									
Benzo[b]fluoranthene	ND	330									
Benzo[g,h,i]perylene	ND	330									
Benzo[k]fluoranthene	ND	330									
Chrysene	ND	330									
Dibenz[a,h]anthracene	ND	330									
Fluoranthene	ND	330									
Fluorene	ND	330									
Indeno[1,2,3-cd]pyrene	ND	330									
Naphthalene	ND	330									
Phenanthrene	ND	330									
Pyrene	ND	330									
Surr: 2,4,6-Tribromophenol	2750	0	5000	0	55	20	143				
Surr: 2-Fluorobiphenyl	2760	0	3330	0	83	46	130				
Surr: 2-Fluorophenol	4120	0	5000	0	82	22	130				
Surr: Nitrobenzene-d5	2680	0	3330	0	80	39	130				
Surr: Phenol-d5	4320	0	5000	0	86	33	130				
Surr: Terphenyl-d14	3180	0	3330	0	95	36	146				

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range	J	Analyte detected below the PQL
	ND	Not Detected at the Practical Quantitation Limit (PQL)	R	RPD exceeds accepted precision limit	S	Spike Recovery outside accepted recovery limits
	U	Not Detected at the MDC or RL				
278	:	04-Dec-08				Page 1 of 5

INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Life Science Laboratories, Inc.SDG No.: 0811131BLab Code: LSLB

Lab File ID (Standard):

K5194.D

Date Analyzed:

12/01/2008

Instrument ID:

MS06_40

Time Analyzed:

8.12

GC Column:

DB-5MSID: 0.25

(mm)

	IS1 (DCB)		IS2 (NPT)		IS3 (ANT)		IS4 (PHN)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	97480	10.22	415733	12.59	206214	15.93	392981	18.79
UPPER LIMIT	194960	10.72	831466	13.09	412428	16.43	785962	19.29
LOWER LIMIT	48740	9.72	207867	12.09	103107	15.43	196491	18.29
SAMPLE NO.								
01 MB-8508 (MB-8508)	127465	10.22	547095	12.58	267385	15.92	443407	18.79
02 LCS-8508 (LCS-8508)	127286	10.22	541936	12.58	272714	15.93	450759	18.79
03 LCSD-8508 (LCSD-8508)	136355	10.22	568893	12.58	281772	15.93	471505	18.79
04 lth-3 (6-12) (0811131-001D)	131087	10.22	562417	12.57	273257	15.93	439345	18.79
05 lth-4 (6-12) (0811131-002D)	130301	10.22	566322	12.58	275787	15.93	427420	18.79
06 lth-2 (6-10) (0811131-003D)	122033	10.22	510111	12.58	248731	15.93	407241	18.79
07 lth-2 (10-14) (0811131-004D)	129671	10.22	559614	12.58	282212	15.93	449358	18.78
08 lth-6 (6-10) (0811131-005D)	133899	10.22	583209	12.58	288504	15.93	460142	18.78
09 lth-6 (10-14) (0811131-006D)	132761	10.22	575307	12.58	287125	15.92	462141	18.78
10 lth-8 (2-10) (0811142-001D)	133773	10.22	570793	12.58	277761	15.93	430828	18.78
11 lth-8 (10-14) (0811142-002D)	129313	10.21	556018	12.58	280414	15.92	448263	18.79
12 lth-7 (1-14) (0811142-003D)	129184	10.22	552346	12.58	275157	15.93	441548	18.79
13 lth-5 (4-10) (0811142-004D)	125931	10.21	543289	12.58	275222	15.92	434675	18.78
14 lth-5 (10-14) (0811142-005D)	143347	10.21	620136	12.57	312737	15.92	505299	18.78
15 lth-1 (6-12) (0811142-006D)	140156	10.21	597162	12.57	296949	15.92	472055	18.79
16 lth-Dup1 (0811142-007D)	127013	10.21	543399	12.57	273941	15.92	429908	18.78
17 lth-2 (6-10)DL (0811131-003DDL)	109484	10.21	463926	12.57	237176	15.92	375787	18.78

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS3 (ANT) = Acenaphthene-d10

IS2 (NPT) = Naphthalene-d8

IS4 (PHN) = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Life Science Laboratories, Inc.SDG No.: 0811131BLab Code: LSLB

Lab File ID (Standard):

K5194.D

Date Analyzed:

12/01/2008

Instrument ID:

MS06_40

Time Analyzed:

8:12

GC Column:

DB-5MS ID: 0.25 (mm)

	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #				
12 HOUR STD	401176	23.86	345876	27.06				
UPPER LIMIT	802352	24.36	691752	27.56				
LOWER LIMIT	200588	23.36	172938	26.56				
SAMPLE NO.								
01 MB-8508 (MB-8508)	487514	23.85	400392	27.05				
02 LCS-8508 (LCS-8508)	507552	23.86	407916	27.06				
03 LCSD-8508 (LCSD-8508)	523897	23.86	419875	27.06				
04 Ith-3 (6-12) (0811131-001D)	453951	23.85	360693	27.05				
05 Ith-4 (6-12) (0811131-002D)	455030	23.85	340246	27.06				
06 Ith-2 (6-10) (0811131-003D)	390169	23.88	164584*	27.07				
07 Ith-2 (10-14) (0811131-004D)	458443	23.85	343561	27.06				
08 Ith-6 (6-10) (0811131-005D)	466171	23.85	350486	27.06				
09 Ith-6 (10-14) (0811131-006D)	466239	23.85	356059	27.05				
10 Ith-8 (2-10) (0811142-001D)	434153	23.86	209873	27.06				
11 Ith-8 (10-14) (0811142-002D)	443797	23.85	327282	27.05				
12 Ith-7 (1-14) (0811142-003D)	465787	23.87	243582	27.07				
13 Ith-5 (4-10) (0811142-004D)	426904	23.85	267454	27.04				
14 Ith-5 (10-14) (0811142-005D)	509949	23.85	371770	27.04				
15 Ith-1 (6-12) (0811142-006D)	498094	23.87	232519	27.07				
16 Ith-Dup1 (0811142-007D)	442391	23.86	210656	27.07				
17 Ith-2 (6-10)DL (0811131-003DDL)	388086	23.85	273459	27.04				

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Life Science Laboratories, Inc.SDG No.: 0811131BLab Code: LSLB

Lab File ID (Standard):

K5213.D

Date Analyzed:

12/03/2008

Instrument ID:

MS06_40

Time Analyzed:

11:22Injection Column: DB-5MS ID: 0.25 (mm)

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #	IS4 (PHN) AREA #	RT #
12 HOUR STD	110729	10.16	455050	12.53	224058	15.88	437083	18.74
UPPER LIMIT	221458	10.66	910100	13.03	448116	16.38	874166	19.24
LOWER LIMIT	55365	9.66	227525	12.03	112029	15.38	218542	18.24
SAMPLE NO.								
01 MB-8521 (MB-8521)	138055	10.16	578402	12.53	279915	15.87	460813	18.73
02 LCS-8521 (LCS-8521)	138061	10.17	563859	12.53	278989	15.88	475222	18.74
03 MSB-8521 (MSB-8521)	122868	10.17	510526	12.53	252980	15.88	429934	18.74
04 Ith-12 (1-14) (0811166-004D)	128760	10.16	539409	12.53	263391	15.87	428128	18.73
05 Ith-14 (1-14) (0811166-006D)	141058	10.17	585190	12.53	275835	15.88	435133	18.74
06 Ith-13 (1-10) (0811166-007D)	125054	10.17	529885	12.53	250192	15.88	404540	18.74
07 Ith-13 (10-14) (0811166-008D)	124338	10.17	529143	12.53	255633	15.88	409039	18.74
08 Ith-16 (1-14) (0811166-005D)	123766	10.17	520528	12.53	251100	15.88	400453	18.74
09 Ith-16 (1-14)MS (0811166-005DMS)	131398	10.17	548970	12.54	267593	15.89	440258	18.75
10 Ith-16 (1-14)MSD (0811166-005DMSD)	122908	10.17	514108	12.53	254512	15.88	408861	18.74
11 Ith-9 (1-14) (0811166-001D)	135833	10.17	578949	12.53	285596	15.88	458877	18.74
12 Ith-10 (1-14) (0811166-002D)	127537	10.17	541464	12.53	263951	15.88	429141	18.74
13 Ith-11 (1-14) (0811166-003D)	119090	10.17	503226	12.53	243000	15.88	387478	18.74
14 Ith-DUP2 (0811166-010D)	124832	10.18	532442	12.53	256341	15.88	409385	18.75
15 Ith-4 (1-6) (0811166-013D)	130773	10.18	551607	12.54	262023	15.89	426223	18.75
16 Ith-6 (1-6) (0811166-014D)	131228	10.18	558391	12.53	269020	15.88	433239	18.75
17 Ith-1 (1-6) (0811166-009D)	130655	10.18	546223	12.54	268251	15.89	428618	18.75
18 Ith-2 (1-6) (0811166-011D)	123152	10.18	516843	12.54	256791	15.89	423600	18.75

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS3 (ANT) = Acenaphthene-d10

IS2 (NPT) = Naphthalene-d8

IS4 (PHN) = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Life Science Laboratories, Inc.SDG No.: 0811131BLab Code: LSLB

Lab File ID (Standard):

K5213.D

Date Analyzed:

12/03/2008

Instrument ID:

MS06_40

Time Analyzed:

11:22

GC Column:

DB-5MSID: 0.25

(mm)

	IS5 (CRY)	RT #	IS6 (PRY)	RT #				
	AREA #		AREA #					
12 HOUR STD	470062	23.82	410422	26.99				
UPPER LIMIT	940124	24.32	820844	27.49				
LOWER LIMIT	235031	23.32	205211	26.49				
SAMPLE NO.								
01 MB-8521 (MB-8521)	495632	23.80	427769	26.98				
02 LCS-8521 (LCS-8521)	532874	23.81	447503	26.99				
03 MSB-8521 (MSB-8521)	497181	23.82	407843	26.99				
04 Ith-12 (1-14) (0811166-004D)	463967	23.81	376096	26.99				
05 Ith-14 (1-14) (0811166-006D)	484470	23.81	407599	26.99				
06 Ith-13 (1-10) (0811166-007D)	436749	23.81	364271	26.99				
07 Ith-13 (10-14) (0811166-008D)	435852	23.81	364596	26.99				
08 Ith-16 (1-14) (0811166-005D)	429008	23.81	361188	26.99				
09 Ith-16 (1-14)MS (0811166-005DMS)	482268	23.82	382593	27.00				
10 Ith-16 (1-14)MSD (0811166-005DMSD)	469476	23.82	375218	27.01				
11 Ith-9 (1-14) (0811166-001D)	483330	23.81	386969	27.00				
12 Ith-10 (1-14) (0811166-002D)	440801	23.81	358384	27.00				
13 Ith-11 (1-14) (0811166-003D)	407772	23.81	336485	27.00				
14 Ith-DUP2 (0811166-010D)	435268	23.82	354014	27.01				
15 Ith-4 (1-6) (0811166-013D)	476476	23.82	365471	27.01				
16 Ith-6 (1-6) (0811166-014D)	469130	23.82	348149	27.01				
17 Ith-1 (1-6) (0811166-009D)	453080	23.83	330618	27.02				
18 Ith-2 (1-6) (0811166-011D)	444592	23.82	302051	27.02				

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

ab Name: Life Science Laboratories, Inc.SDG No.: 0811131Bab Code: LSLB

ab File ID (Standard):

K5234.D

Date Analyzed:

12/04/2008

Instrument ID:

MS06_40

Time Analyzed:

13:12C Column: DB-5MS ID: 0.25 (mm)

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #	IS4 (PHN) AREA #	RT #
12 HOUR STD	107410	10.16	434674	12.53	250302	15.88	529047	18.74
UPPER LIMIT	214820	10.66	869348	13.03	500604	16.38	1058094	19.24
LOWER LIMIT	53705	9.66	217337	12.03	125151	15.38	264524	18.24
SAMPLE NO.								
01 lth-3 (1-6) (0811166-012D)	111984	10.16	460577	12.52	256581	15.87	456256	18.74

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS3 (ANT) = Acenaphthene-d10

IS2 (NPT) = Naphthalene-d8

IS4 (PHN) = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

lab Name: Life Science Laboratories, Inc.SDG No.: 0811131Blab Code: LSLB

lab File ID (Standard):

K5234.D

Date Analyzed:

12/04/2008

Instrument ID:

MS06_40

Time Analyzed:

13:12GC Column: DB-5MS ID: 0.25 (mm)

	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #				
12 HOUR STD	490586	23.82	420062	27.00				
UPPER LIMIT	981172	24.32	840124	27.50				
LOWER LIMIT	245293	23.32	210031	26.50				
SAMPLE NO.								
11th-3 (1-6) (0811166-012D)	422257	23.81	261901	26.99				

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

Pesticide Data

2F
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: Life Science Laboratories, Inc Contract: _____

Lab Code: LSLB Case No.: ERM SAS No. _____ SDG No.: 0811131B

GC Column(1): RtxCLP ID: 0.53 (nm) GC Column(2): RtxCLP2 ID: 0.53 (nm)

EPA SAMPLE NO.	LSL ID	% REC1 (TCX) 1 #	% REC2 (TCX) 2 #	% REC3 (DCB) 1 #	% REC4 (DCB) 2 #	TOT OUT
01	MB-8505	78	79	48	45	0
02	LCS-8505	72	78	47	47	0
03	LCSD-8505	66	70	45	43	0
04	MB-8516	65	70	42	43	0
05	LCS-8516	68	72	44	44	0
06	MSB-8516	73	77	48	49	0
07	Ith-3 (6-12)	86	91	52	53	0
08	Ith-4 (6-12)	66	71	37	51	0
09	Ith-2 (6-10)	67	73	30	73	0
10	Ith-2 (10-14)	44	56	27	40	0
11	Ith-6 (6-10)	55	79	36	45	0
12	Ith-6 (10-14)	64	85	38	54	0
13	Ith-8 (2-10)	61	68	41	65	0
14	Ith-8 (10-14)	46	60	28	35	0
15	Ith-7 (1-14)	61	70	40	81	0
16	Ith-5 (4-10)	48	67	34	39	0
17	Ith-5 (10-14)	44	54	26	36	0
18	Ith-1 (6-12)	53	69	29	53	0
19	Ith-Dup1	53	58	26	46	0
20	Ith-9 (1-14)	61	69	36	43	0
21	Ith-10 (1-14)	53	65	33	37	0
22	Ith-11 (1-14)	53	62	36	44	0
23	Ith-12 (1-14)	58	71	42	58	0
24	Ith-16 (1-14)	59	96	40	56	0
25	Ith-16 (1-14)MS	58	61	31	34	0
26	Ith-16 (1-14)MSD	51	65	35	38	0
27	Ith-14 (1-14)	61	68	42	40	0

QC Limit

% REC1 (TCX) 1 = Tetrachloro-m-xylene 37-125
 % REC2 (TCX) 2 = Tetrachloro-m-xylene 37-125
 % REC3 (DCB) 1 = Decachlorobiphenyl 25-145
 % REC4 (DCB) 2 = Decachlorobiphenyl 25-145

Column to be used to flag recovery values

* Values outside of contract required QC limits

SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: Life Science Laboratories, Inc Contract: _____Lab Code: LSLB Case No.: ERM SAS No. _____ SDG No.: 0811131BGC Column(1): RtxCLP ID: 0.53 (mm) GC Column(2): RtxCLP2 ID: 0.53 (mm)

EPA SAMPLE NO.	LSL ID	% REC1	% REC2	% REC3	% REC4	TOT OUT
		(TCX) 1 #	(TCX) 2 #	(DCB) 1 #	(DCB) 2 #	
28 Ith-13 (1-10)	0811166-007D	50	68	34	40	0
29 Ith-13 (10-14)	0811166-008D	55	70	39	54	0
30 Ith-1 (1-6)	0811166-009D	85	86	37	72	0
31 Ith-DUP2	0811166-010D	54	59	29	39	0
32 Ith-2 (1-6)	0811166-011D	82	61	35	58	0
33 Ith-3 (1-6)	0811166-012D	75	67	39	77	0
34 Ith-4 (1-6)	0811166-013D	55	62	34	55	0
35 Ith-6 (1-6)	0811166-014D	76	63	42	56	0

QC Limit

% REC1 (TCX) 1 = Tetrachloro-m-xylene	37-125
% REC2 (TCX) 2 = Tetrachloro-m-xylene	37-125
% REC3 (DCB) 1 = Decachlorobiphenyl	25-145
% REC4 (DCB) 2 = Decachlorobiphenyl	25-145

Column to be used to flag recovery values

* Values outside of contract required QC limits

Life Science Laboratories, Inc.
 5000 Brittonfield Parkway, Suite 200
 East Syracuse, NY 13057 (315) 437-0200

ANALYTICAL QC SUMMARY REPORT

Method: SW8081A
 Work Order: 0811166
 Project: Ithaca Dredging

CLIENT: ERM Consulting & Engineering

Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4'-DDD	0.00584	0.0022	0.0114	0	51	30	133				
4,4'-DDE	0.00550	0.0022	0.0114	0	48	26	130				
4,4'-DDT	0.00450	0.0022	0.0114	0	40	10	173				
alpha-Chlordane	0.00472	0.0011	0.0114	0	42	30	130				
Dieldrin	0.00615	0.0022	0.0114	0	54	24	130				
gamma-Chlordane	0.00508	0.0011	0.0114	0	45	33	147				
Surr: Tetrachloro-m-xylene	0.00775	0	0.0134	0	58	37	125				
Surr: Decachlorobiphenyl	0.00419	0	0.0134	0	31	25	145				

Sample ID: 0811166-005D SampType: MS TestCode: 8081S Units: mg/Kg-dry Prep Date: 11/24/2008 RunNo: 15901
 Client ID: Ith-16 (1-14) Batch ID: 8516 Method: SW8081A (SW3550B) Analysis Date: 12/20/2008 SeqNo: 417134
 Instrument: GCGT_57G ColumnID: RtxCLP Rtx-CLPest, 0.50 df

Qualifiers: B Analyte detected in the associated Method Blank E Value exceeds the instrument calibration range J Analyte detected below the PQL
 ND Not Detected at the Practical Quantitation Limit (PQL) R RPD exceeds accepted precision limit S Spike Recovery outside accepted recovery limits
 U Not Detected at the MDC or RL

Life Science Laboratories, Inc.
 5000 Brittonfield Parkway, Suite 200
 East Syracuse, NY 13057 (315) 437-0200

ANALYTICAL QC SUMMARY REPORT

Method: SW8081A
 Work Order: 0811166
 Project: Ithaca Dredging

CLIENT: ERM Consulting & Engineering

Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4'-DDD	0.00635	0.0022	0.0114	0	56	30	133	0.00584	8	50	
4,4'-DDE	0.00611	0.0022	0.0114	0	54	26	130	0.0055	10	36	
4,4'-DDT	0.00586	0.0022	0.0114	0	52	10	173	0.0045	26	60	
alpha-Chlordane	0.00521	0.0011	0.0114	0	46	30	130	0.00472	10	42	
Dieldrin	0.00653	0.0022	0.0114	0	57	24	130	0.00615	6	40	
gamma-Chlordane	0.00539	0.0011	0.0114	0	47	33	147	0.00508	6	15	
Surr: Tetrachloro-m-xylene	0.00686	0	0.0134	0	51	37	125	0	0	0	
Surr: Decachlorobiphenyl	0.00466	0	0.0134	0	35	25	145	0	0	0	

Sample ID: 0811166-005D TestCode: 8081S Units: mg/Kg-dry Prep Date: 11/24/2008 RunNo: 15901
 Client ID: Ith-16 (1-14) Method: SW8081A (SW3550B) Analysis Date: 12/20/2008 SeqNo: 417135
 Instrument: GCGT_57G ColumnID: RtxCLP Rbx-CLPest, 0.50 df

Qualifiers: B Analyte detected in the associated Method Blank E Value exceeds the instrument calibration range J Analyte detected below the PQL
 ND Not Detected at the Practical Quantitation Limit (PQL) R RPD exceeds accepted precision limit S Spike Recovery outside accepted recovery limits
 U Not Detected at the MDC or RL

Life Science Laboratories, Inc.
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 East Syracuse, NY 13057 (315) 437-0200

ANALYTICAL QC SUMMARY REPORT

Method: SW8081A
Work Order: 0811166
Project: Ithaca Dredging

CLIENT: ERM Consulting & Engineering

Sample ID: 0811166-005D	SampType: MS	TestCode: 8081S	Unifs: mg/Kg-dry	Prep Date: 11/24/2008	RunNo: 15903
Client ID: Ith-16 (1-14)	Batch ID: 8516	Method: SW8081A	(SW3550B)	Analysis Date: 12/20/2008	SeqNo: 417180
Instrument: GCGT_57H	ColumnID: RtxCLP2	Rtx-CLPest II,0.42df			

Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4'-DDD	0.00633	0.0022	0.0114	0	56	30	133				
4,4'-DDE	0.00637	0.0022	0.0114	0	56	26	130				
4,4'-DDT	0.00755	0.0022	0.0114	0	66	10	173				
alpha-Chlordane	0.00626	0.0011	0.0114	0	55	30	130				
Dieldrin	0.00729	0.0022	0.0114	0	64	24	130				
gamma-Chlordane	0.0227	0.0011	0.0114	0	200	33	147				
Surr: Tetrachloro-m-xylene	0.00816	0	0.0134	0	61	37	125				
Surr: Decachlorobiphenyl	0.00450	0	0.0134	0	34	25	145				

RES
 STC
 12/30/08

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range	J	Analyte detected below the PQL
	ND	Not Detected at the Practical Quantitation Limit (PQL)	R	RPD exceeds accepted precision limit	S	Spike Recovery outside accepted recovery limits
	U	Not Detected at the MDC or RL				

Life Science Laboratories, Inc.

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East Syracuse, NY 13057 (315) 437-0200

CLIENT: ERM Consulting & Engineering

ANALYTICAL QC SUMMARY REPORT

Method: SW8081A

Work Order: 0811166

Project: Ithaca Dredging

Sample ID: 0811166-005D	SampType: MSD	TestCode: 8081S	Units: mg/Kg-dry	Prep Date: 11/24/2008	RunNo: 15903						
Client ID: Ith-16 (1-14)	Batch ID: 8516	Method: SW8081A	(SW3550B)	Analysis Date: 12/20/2008	SeqNo: 417181						
Instrument: GCGT_57H	ColumnID: RbCCLP2	Rtx-CLPest II,0.42df									
Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4'-DDD	0.00671	0.0022	0.0114	0	59	30	133	0.00633	6	50	
4,4'-DDE	0.00691	0.0022	0.0114	0	61	26	130	0.00637	8	36	
4,4'-DDT	0.00787	0.0022	0.0114	0	69	10	173	0.00755	4	60	
alpha-Chlordane	0.00664	0.0011	0.0114	0	58	30	130	0.00626	6	42	
Dieldrin	0.00740	0.0022	0.0114	0	65	24	130	0.00729	2	40	
gamma-Chlordane	0.0231	0.0011	0.0114	0	203	33	147	0.0227	1	15	RES
Surr: Tetrachloro-m-xylene	0.00873	0	0.0134	0	65	37	125	0	0	0	
Surr: Decachlorobiphenyl	0.00506	0	0.0134	0	38	25	145	0	0	0	

575x
12/30/08

Qualifiers: B Analyte detected in the associated Method Blank E Value exceeds the instrument calibration range J Analyte detected below the PQL
 ND Not Detected at the Practical Quantitation Limit (PQL) R RPD exceeds accepted precision limit S Spike Recovery outside accepted recovery limits
 U Not Detected at the MDC or RL

Life Science Laboratories, Inc.

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ANALYTICAL QC SUMMARY REPORT

Method: SW8081A
 Work Order: 0811166
 Project: Ithaca Dredging

CLIENT: ERM Consulting & Engineering

Sample ID: MSB-8516	SampType: MSB	TestCode: 8081S	Units: mg/Kg	Prep Date: 11/24/2008	RunNo: 15901
Client ID: ZZZZ	Batch ID: 8516	Method: SW8081A	(SW3550B)	Analysis Date: 12/19/2008	SeqNo: 417110
Instrument: GCGT_57G	ColumnID: RtxCLP	Rtx-CLPest, 0.50 df			

Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4'-DDD	0.00662	0.0017	0.0085	0	78	30	133				
4,4'-DDE	0.00655	0.0017	0.0085	0	77	26	130				
4,4'-DDT	0.00668	0.0017	0.0085	0	79	10	173				
alpha-Chlordane	0.00600	0.00085	0.0085	0	71	30	130				
Dieldrin	0.00660	0.0017	0.0085	0	78	24	130				
gamma-Chlordane	0.00552	0.00085	0.0085	0	65	33	147				
Surr: Tetrachloro-m-xylene	0.00732	0	0.01	0	73	37	125				
Surr: Decachlorobiphenyl	0.00482	0	0.01	0	48	25	145				

Qualifiers: B Analyte detected in the associated Method Blank E Value exceeds the instrument calibration range J Analyte detected below the PQL
 ND Not Detected at the Practical Quantification Limit (PQL) R RPD exceeds accepted precision limit S Spike Recovery outside accepted recovery limits
 U Not Detected at the MDC or RL

Life Science Laboratories, Inc.
 5000 Brittonfield Parkway, Suite 200
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ANALYTICAL QC SUMMARY REPORT

Method: SW8081A
 Work Order: 0811166
 Project: Ithaca Dredging

CLIENT: ERM Consulting & Engineering

Sample ID: MSB-8516	SampType: MSB	TestCode: 8081S	Units: mg/Kg	Prep Date: 11/24/2008	RunNo: 15903
Client ID: ZZZZ	Batch ID: 8516	Method: SW8081A	(SW3550B)	Analysis Date: 12/19/2008	SeqNo: 417156
Instrument: GCGT_57H	ColumnID: RtxCLPZ	Rtx-CLPest II,0.42df			

Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4'-DDD	0.00685	0.0017	0.0085	0	81	30	133				
4,4'-DDE	0.00650	0.0017	0.0085	0	76	26	130				
4,4'-DDT	0.00708	0.0017	0.0085	0	83	10	173				
alpha-Chlordane	0.00678	0.00085	0.0085	0	80	30	130				
Dieldrin	0.00640	0.0017	0.0085	0	75	24	130				
gamma-Chlordane	0.00700	0.00085	0.0085	0	82	33	147				
Surr: Tetrachloro-m-xylene	0.00770	0	0.01	0	77	37	125				
Surr: Decachlorobiphenyl	0.00490	0	0.01	0	49	25	145				

STC
12/30/08

Qualifiers: B Analyte detected in the associated Method Blank
 ND Not Detected at the Practical Quantitation Limit (PQL)
 U Not Detected at the MDC or RL

E Value exceeds the instrument calibration range
 R RPD exceeds accepted precision limit

J Analyte detected below the PQL
 S Spike Recovery outside accepted recovery limits

30-Dec-08

Life Science Laboratories, Inc.

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ANALYTICAL QC SUMMARY REPORT

Method: SW8081A
 Work Order: 0811131
 Project: Ithaca Dredging

CLIENT: ERM Consulting & Engineering

Sample ID: LCS-8505	SampType: LCS	TestCode: 8081S	Units: mg/Kg	Prep Date: 11/21/2008	RunNo: 15901
Client ID: ZZZZ	Batch ID: 8505	Method: SW8081A	(SW3550B)	Analysis Date: 12/19/2008	SeqNo: 417106
Instrument: GCGT_57G	ColumnID: RbxCLP	Rbx-CLPest, 0.50 df			

Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4'-DDD	0.00628	0.0017	0.0085	0	74	55	125				
4,4'-DDE	0.00630	0.0017	0.0085	0	74	51	125				
4,4'-DDT	0.00655	0.0017	0.0085	0	77	58	125				
alpha-Chlordane	0.00577	0.00085	0.0085	0	68	53	125				
Dieldrin	0.00640	0.0017	0.0085	0	75	55	125				
gamma-Chlordane	0.00540	0.00085	0.0085	0	64	57	125				
Surr: Tetrachloro-m-xylene	0.00725	0	0.01	0	72	37	125				
Surr: Decachlorobiphenyl	0.00473	0	0.01	0	47	25	145				

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range	J	Analyte detected below the PQL
	ND	Not Detected at the Practical Quantitation Limit (PQL)	R	RPD exceeds accepted precision limit	S	Spike Recovery outside accepted recovery limits
	U	Not Detected at the MDC or RL				

Life Science Laboratories, Inc.

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ANALYTICAL QC SUMMARY REPORT

Method: SW8081A
 Work Order: 0811131
 Project: Ithaca Dredging

CLIENT: ERM Consulting & Engineering

Sample ID: LCSD-8505 SampType: LCSD TestCode: 8081S Units: mg/Kg Prep Date: 11/21/2008 RunNo: 15901
 Client ID: ZZZZ Batch ID: 8505 Method: SW8081A (SW3550B) Analysis Date: 12/19/2008 SeqNo: 417107
 Instrument: GCGT_57G ColumnID: RtxCLP Rtx-CLPest, 0.50 df

Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4'-DDD	0.00980	0.0017	0.0085	0	68	55	125	0.00628	8	50	
4,4'-DDE	0.00575	0.0017	0.0085	0	68	51	125	0.0063	9	36	
4,4'-DDT	0.00558	0.0017	0.0085	0	66	58	125	0.00655	16	60	
alpha-Chlordane	0.00533	0.0085	0.0085	0	63	53	125	0.00577	8	42	
Dieldrin	0.00590	0.0017	0.0085	0	69	55	125	0.0064	8	40	
gamma-Chlordane	0.00482	0.0085	0.0085	0	57	57	125	0.0054	11	22	
Surr: Tetrachloro-m-xylene	0.00862	0	0.01	0	66	37	125	0	0	0	
Surr: Decachlorobiphenyl	0.00453	0	0.01	0	45	25	145	0	0	0	

Qualifiers: B Analyte detected in the associated Method Blank E Value exceeds the instrument calibration range J Analyte detected below the PQL
 ND Not Detected at the Practical Quantitation Limit (PQL) R RPD exceeds accepted precision limit S Spike Recovery outside accepted recovery limits
 U Not Detected at the MDC or RL

Life Science Laboratories, Inc.
 5000 Brittonfield Parkway, Suite 200
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ANALYTICAL QC SUMMARY REPORT

Method: SW8081A
 Work Order: 0811131
 Project: Ithaca Dredging

CLIENT: ERM Consulting & Engineering

Sample ID: LCS-8505	SampType: LCS	TestCode: 8081S	Units: mg/Kg	Prep Date: 11/21/2008	RunNo: 15903
Client ID: ZZZZ	Batch ID: 8505	Method: SW8081A	(SW3550B)	Analysis Date: 12/19/2008	SeqNo: 417152
Instrument: GCGT_57H	ColumnID: RtxCLP2	Rtx-CLPest II, 0.42cf			

Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4'-DDD	0.00652	0.0017	0.0085	0	77	55	125				
4,4'-DDE	0.00647	0.0017	0.0085	0	76	51	125				
4,4'-DDT	0.00688	0.0017	0.0085	0	81	58	125				
alpha-Chlordane	0.00662	0.00085	0.0085	0	78	53	125				
Dieldrin	0.00610	0.0017	0.0085	0	72	55	125				
gamma-Chlordane	0.00687	0.00085	0.0085	0	81	57	125				
Surr: Tetrachloro-m-xylene	0.00777	0	0.01	0	78	37	125				
Surr: Decachlorobiphenyl	0.00467	0	0.01	0	47	25	145				

575c
 12/30/08

Qualifiers: B Analyte detected in the associated Method Blank E Value exceeds the instrument calibration range J Analyte detected below the PQL
 ND Not Detected at the Practical Quantitation Limit (PQL) R RPD exceeds accepted precision limit S Spike Recovery outside accepted recovery limits
 U Not Detected at the MDC or RL

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ANALYTICAL QC SUMMARY REPORT

Method: SW8081A
 Work Order: 0811131
 Project: Ithaca Dredging

CLIENT: ERM Consulting & Engineering

Sample ID: LCSD-8505	SampType: LCSD	TestCode: 8081S	Units: mg/Kg	Prep Date: 11/21/2008	RunNo: 15903
Client ID: ZZZZZ	Batch ID: 8505	Method: SW8081A	(SW3550B)	Analysis Date: 12/19/2008	SeqNo: 417153
Instrument: GCGT_57H	ColumnID: RtxCLP2	Rtx-CLPest II,0.42df			

Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4'-DDD	0.00603	0.0017	0.0085	0	71	55	125	0.00652	8	50	
4,4'-DDE	0.00593	0.0017	0.0085	0	70	51	125	0.00647	9	36	
4,4'-DDT	0.00630	0.0017	0.0085	0	74	58	125	0.00688	9	60	
alpha-Chlordane	0.00597	0.00085	0.0085	0	70	53	125	0.00662	10	42	
Dieldrin	0.00550	0.0017	0.0085	0	65	55	125	0.0061	10	40	
gamma-Chlordane	0.0113	0.00085	0.0085	0	133	57	125	0.00687	49	22	ARS
Surr: Tetrachloro-m-xylene	0.00697	0	0.01	0	70	37	125	0	0	0	
Surr: Decachlorobiphenyl	0.00430	0	0.01	0	43	25	145	0	0	0	

574
12/20/08

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range	J	Analyte detected below the PQL
	ND	Not Detected at the Practical Quantitation Limit (PQL)	R	RPD exceeds accepted precision limit	S	Spike Recovery outside accepted recovery limits
	U	Not Detected at the MDC or RL				

Method: SW8081A
 Work Order: 0811166
 Project: Ithaca Dredging

CLIENT: ERM Consulting & Engineering

Sample ID: LCS-8516	SampType: LCS	TestCode: 8081S	Units: mg/Kg	Prep Date: 11/24/2008	RunNo: 15901
Client ID: ZZZZ	Batch ID: 8516	Method: SW8081A	(SW3550B)	Analysis Date: 12/19/2008	SeqNo: 417109
Instrument: GCGT_57G	ColumnID: RtxCLP	Rtx-CLPast, 0.50 df			

Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4'-DDD	0.00608	0.0017	0.0085	0	72	55	125				
4,4'-DDE	0.00623	0.0017	0.0085	0	73	51	125				
4,4'-DDT	0.00635	0.0017	0.0085	0	75	58	125				
alpha-Chlordane	0.00593	0.0085	0.0085	0	70	53	125				
Dieldrin	0.00607	0.0017	0.0085	0	71	55	125				
gamma-Chlordane	0.00587	0.0085	0.0085	0	69	57	125				
Surr: Tetrachloro-m-xylene	0.00678	0	0.01	0	68	37	125				
Surr: Decachlorobiphenyl	0.00435	0	0.01	0	44	25	145				

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range	J	Analyte detected below the PQL
	ND	Not Detected at the Practical Quantitation Limit (PQL)	R	RPD exceeds accepted precision limit	S	Spike Recovery outside accepted recovery limits
	U	Not Detected at the MDC or RL				

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ANALYTICAL QC SUMMARY REPORT

Method: SW8081A
 Work Order: 0811166
 Project: Ithaca Dredging

CLIENT: ERM Consulting & Engineering

Sample ID: LC8-9516	SampType: LCS	TestCode: 8081S	Units: mg/Kg	Prep Date: 11/24/2008	RunNo: 15903
Client ID: ZZZZ	Batch ID: 8516	Method: SW8081A	(SW3550B)	Analysis Date: 12/19/2008	SeqNo: 417155
Instrument: GCGT_57H	ColumnID: RtxCLP2	Rtx-CLPest II,0.42df			

Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4'-DDD	0.00623	0.0017	0.0085	0	73	55	125				
4,4'-DDE	0.00605	0.0017	0.0085	0	71	51	125				
4,4'-DDT	0.00637	0.0017	0.0085	0	75	58	125				
alpha-Chlordane	0.00618	0.00085	0.0085	0	73	53	125				
Dieldrin	0.00625	0.0017	0.0085	0	74	55	125				
gamma-Chlordane	0.00625	0.00085	0.0085	0	74	57	125				
Surr: Tetrachloro-m-xylene	0.00718	0	0.01	0	72	37	125				
Surr: Decachlorobiphenyl	0.00440	0	0.01	0	44	25	145				

574
12/30/08

Qualifiers: B Analyte detected in the associated Method Blank E Value exceeds the instrument calibration range J Analyte detected below the PQL
 ND Not Detected at the Practical Quantitation Limit (PQL) R RPD exceeds accepted precision limit S Spike Recovery outside accepted recovery limits
 U Not Detected at the MDC or RL

MB-8505

Lab Name: Life Science Laboratories Contract: _____Lab Code: LSLB Case No.: ERM SAS No.: _____ SDG No.: 0811131BLab Sample ID: MB-8505 Lab File ID: 121904.rstMatrix: (soil/water) S Extraction: (Type) SONCSulfur Cleanup: (Y/N) N Date Extracted: 11/21/2008Date Analyzed (1): 12/19/2008 Date Analyzed (2): 12/19/2008Time Analyzed (1): 11:53 Time Analyzed (2): 11:53Instrument ID (1): GCGT 57G Instrument ID (2): GCGT 57HGC Column (1): RtxCLP ID: 0.5 (mm) GC Column (2): RtxCLP2 ID: 0.5 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
1	LCS-8505	LCS-8505	12/19/2008	12/19/2008
2	LCSD-8505	LCSD-8505	12/19/2008	12/19/2008
3	lth-3 (6-12)	0811131-001D	12/19/2008	12/19/2008
4	lth-4 (6-12)	0811131-002D	12/19/2008	12/19/2008
5	lth-2 (6-10)	0811131-003D	12/19/2008	12/19/2008
6	lth-2 (10-14)	0811131-004D	12/19/2008	12/19/2008
7	lth-6 (6-10)	0811131-005D	12/19/2008	12/19/2008
8	lth-6 (10-14)	0811131-006D	12/19/2008	12/19/2008
9	lth-8 (2-10)	0811142-001D	12/19/2008	12/19/2008
10	lth-8 (10-14)	0811142-002D	12/19/2008	12/19/2008
11	lth-7 (1-14)	0811142-003D	12/19/2008	12/19/2008
12	lth-5 (4-10)	0811142-004D	12/19/2008	12/19/2008
13	lth-5 (10-14)	0811142-005D	12/19/2008	12/19/2008
14	lth-1 (6-12)	0811142-006D	12/19/2008	12/19/2008
15	lth-Dup1	0811142-007D	12/19/2008	12/19/2008

COMMENTS:

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ANALYTICAL QC SUMMARY REPORT

Method: SW8081A

Work Order: 0811131

Project: Ithaca Dredging

CLIENT: ERM Consulting & Engineering

Sample ID: MB-8505	SampType: MBLK	TestCode: 8081S	Units: mg/Kg	Prep Date: 11/21/2008	RunNo: 15901
Client ID: ZZZZZ	Batch ID: 8505	Method: SW8081A	(SW3550B)	Analysis Date: 12/19/2008	SeqNo: 417105
Instrument: GCGI_57G	ColumnID: RtxCLP	Rtx-CLPest, 0.50 df			

Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4'-DDD	ND	0.0017									
4,4'-DDE	ND	0.0017									
4,4'-DDT	ND	0.0017									
alpha-Chlordane	ND	0.00085									
Dieldrin	ND	0.0017									
gamma-Chlordane	ND	0.00085									
Surr: Tetrachloro-m-xylene	0.00775	0	0.01	0	78	37	125				
Surr: Decachlorobiphenyl	0.00478	0	0.01	0	48	25	145				

Qualifiers: B Analyte detected in the associated Method Blank E Value exceeds the instrument calibration range J Analyte detected below the PQL
 ND Not Detected at the Practical Quantitation Limit (PQL) R RPD exceeds accepted precision limit S Spike Recovery outside accepted recovery limits
 U Not Detected at the MDC or RL

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ANALYTICAL QC SUMMARY REPORT

Method: SW8081A
Work Order: 0811131
Project: Ithaca Dredging

CLIENT: ERM Consulting & Engineering

Sample ID: MB-8506	SampType: MBLK	TestCode: 8081S	Units: mg/Kg	Prep Date: 11/21/2008	RunNo: 15903
Client ID: ZZZZZ	Batch ID: 8505	Method: SW8081A	(SW3550B)	Analysis Date: 12/19/2008	SeqNo: 417151
Instrument: GCGT_57H	ColumnID: RtxCLP2	Rtx-CLPest II,0.42df			

Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4'-DDD	ND	0.0017									
4,4'-DDE	ND	0.0017									
4,4'-DDT	ND	0.0017									
alpha-Chlordane	ND	0.00085									
Dieldrin	ND	0.0017									
gamma-Chlordane	ND	0.00085									
Surr: Tetrachloro-m-xylene	0.00792	0	0.01	0	79	37	125				
Surr: Decachlorobiphenyl	0.00453	0	0.01	0	45	25	145				

Qualifiers: B Analyte detected in the associated Method Blank
 ND Not Detected at the Practical Quantitation Limit (PQL)
 U Not Detected at the MDC or RL

E Value exceeds the instrument calibration range
 R RPD exceeds accepted precision limit
 J Analyte detected below the PQL
 S Spike Recovery outside accepted recovery limits

30-Dec-08

MB-8516

Lab Name: Life Science Laboratories Contract: _____

Lab Code: LSLB Case No.: ERM SAS No.: _____ SDG No.: 0811131B

Lab Sample ID: MB-8516 Lab File ID: 121907.rst

Matrix: (soil/water) S Extraction: (Type) SONC

Sulfur Cleanup: (Y/N) N Date Extracted: 11/24/2008

Date Analyzed (1): 12/19/2008 Date Analyzed (2): 12/19/2008

Time Analyzed (1): 13:05 Time Analyzed (2): 13:05

Instrument ID (1): GCGT 57G Instrument ID (2): GCGT 57H

GC Column (1): RtxCLP ID: 0.5 (mm) GC Column (2): RtxCLP2 ID: 0.5 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
1	LCS-8516	LCS-8516	12/19/2008	12/19/2008
2	MSB-8516	MSB-8516	12/19/2008	12/19/2008
3	lth-9 (1-14)	0811166-001D	12/19/2008	12/19/2008
4	lth-10 (1-14)	0811166-002D	12/19/2008	12/19/2008
5	lth-11 (1-14)	0811166-003D	12/20/2008	12/20/2008
6	lth-12 (1-14)	0811166-004D	12/20/2008	12/20/2008
7	lth-16 (1-14)	0811166-005D	12/20/2008	12/20/2008
8	lth-16 (1-14)MS	0811166-005DMS	12/20/2008	12/20/2008
9	lth-16 (1-14)MSD	0811166-005DMSD	12/20/2008	12/20/2008
10	lth-14 (1-14)	0811166-006D	12/20/2008	12/20/2008
11	lth-13 (1-10)	0811166-007D	12/20/2008	12/20/2008
12	lth-13 (10-14)	0811166-008D	12/20/2008	12/20/2008
13	lth-1 (1-6)	0811166-009D	12/20/2008	12/20/2008
14	lth-DUP2	0811166-010D	12/20/2008	12/20/2008
15	lth-2 (1-6)	0811166-011D	12/20/2008	12/20/2008
16	lth-3 (1-6)	0811166-012D	12/20/2008	12/20/2008
17	lth-4 (1-6)	0811166-013D	12/20/2008	12/20/2008
18	lth-6 (1-6)	0811166-014D	12/20/2008	12/20/2008

COMMENTS:

Life Science Laboratories, Inc.

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(315) 437-0200

ANALYTICAL QC SUMMARY REPORT

Method: SW8081A

Work Order: 0811166

Project: Ithaca Dredging

CLIENT: ERM Consulting & Engineering

Sample ID: MB-8616	SampType: MBLK	TestCode: 8081S	Units: mg/Kg	Prep Date: 11/24/2008	RunNo: 15901
Client ID: ZZZZ	Batch ID: 8516	Method: SW8081A	(SW3550B)	Analysis Date: 12/19/2008	SeqNo: 417108
Instrument: GCGT_57G	ColumnID: RtxCLP	Rtx-CLPest, 0.50 df			

Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4'-DDD	ND	0.0017									
4,4'-DDE	ND	0.0017									
4,4'-DDT	ND	0.0017									
alpha-Chlordane	ND	0.00085									
Dieldrin	ND	0.0017									
gamma-Chlordane	ND	0.00085									
Surr: Tetrachloro-m-xylene	0.00653	0	0.01	0	65	37	125				
Surr: Decachlorobiphenyl	0.00418	0	0.01	0	42	25	145				

Qualifiers: B Analyte detected in the associated Method Blank E Value exceeds the instrument calibration range J Analyte detected below the PQL
 ND Not Detected at the Practical Quantitation Limit (PQL) R RPD exceeds accepted precision limit S Spike Recovery outside accepted recovery limits
 U Not Detected at the MDC or RL

Life Science Laboratories, Inc.

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ANALYTICAL QC SUMMARY REPORT

Method: SW8081A
 Work Order: 0811166
 Project: Ithaca Dredging

CLIENT: ERM Consulting & Engineering

Sample ID: MB-8516	SampType: MBLK	TestCode: 8081S	Units: mg/Kg	Prep Date: 11/24/2008	RunNo: 15903
Client ID: ZZZZZ	Batch ID: 8516	Method: SW8081A	(SW3550B)	Analysis Date: 12/19/2008	SeqNo: 417154
Instrument: GCGT_57H	ColumnID: Rtx-CLP2	Rtx-CLPest II,0.42df			

Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4'-DDD	ND	0.0017									
4,4'-DDE	ND	0.0017									
4,4'-DDT	ND	0.0017									
alpha-Chlordane	ND	0.00085									
Dieldrin	ND	0.0017									
gamma-Chlordane	ND	0.00085									
Surr: Tetrachloro-m-xylene	0.00695	0	0.01	0	70	37	125				
Surr: Decachlorobiphenyl	0.00427	0	0.01	0	43	25	145				

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range	J	Analyte detected below the PQL
	ND	Not Detected at the Practical Quantitation Limit (PQL)	R	RPD exceeds accepted precision limit	S	Spike Recovery outside accepted recovery limits
	U	Not Detected at the MDC or RL				

PCB Data

2F
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: Life Science Laboratories, Inc Contract: _____

Lab Code: LSLE Case No.: ERM SAS No. _____ SDG No.: 0811131B

GC Column(1): DB-608 ID: 0.53 (mm) GC Column(2): DB-1701 ID: 0.53 (mm)

EPA SAMPLE NO.	LSL ID	% REC1 (TCX) 1 #	% REC2 (TCX) 2 #	% REC3 (DCB) 1 #	% REC4 (DCB) 2 #		TOT OUT
01 MB-8506	MB-8506	84	92	50	49		0
02 LCS-8506	LCS-8506	82	88	50	50		0
03 LCSD-8506	LCSD-8506	88	95	53	53		0
04 Ith-3 (6-12)	0811131-001D	80		50			0
05 Ith-4 (6-12)	0811131-002D	71	75	46	39		0
06 Ith-2 (6-10)	0811131-003D	60	60	43	36		0
07 Ith-2 (10-14)	0811131-004D	73	76	44	38		0
08 Ith-6 (6-10)	0811131-005D	80		48			0
09 Ith-6 (10-14)	0811131-006D	79		47			0
10 Ith-8 (2-10)	0811142-001D	67	68	45	36		0
11 Ith-8 (10-14)	0811142-002D	70		41			0
12 Ith-7 (1-14)	0811142-003D	66	66	47	39		0
13 Ith-5 (4-10)	0811142-004D	72	76	44	38		0
14 Ith-5 (10-14)	0811142-005D	68		41			0
15 Ith-1 (6-12)	0811142-006D	63	65	43	34 *		1
16 Ith-Dup1	0811142-007D	58	60	38	32 *		1
17 MB-8517	MB-8517	92		57			0
18 LCS-8517	LCS-8517	90		56			0
19 MSB-8517	MSB-8517	88		54			0
20 Ith-9 (1-14)	0811166-001D	78		57			0
21 Ith-10 (1-14)	0811166-002D	87		64			0
22 Ith-11 (1-14)	0811166-003D	83		59			0
23 Ith-12 (1-14)	0811166-004D	86		53			0
24 Ith-16 (1-14)	0811166-005D	84		57			0
25 Ith-16 (1-14)MS	0811166-005DMS	76		52			0
26 Ith-16 (1-14)MSD	0811166-005DMSD	77		50			0
27 Ith-14 (1-14)	0811166-006D	84		54			0

QC Limit

% REC1 (TCX) 1 = Tetrachloro-m-xylene 44-134
 % REC2 (TCX) 2 = Tetrachloro-m-xylene 44-134
 % REC3 (DCB) 1 = Decachlorobiphenyl 36-141
 % REC4 (DCB) 2 = Decachlorobiphenyl 36-141

Column to be used to flag recovery values

* Values outside of contract required QC limits

2F
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: Life Science Laboratories, Inc Contract: _____

Lab Code: LSLB Case No.: ERM SAS No. _____ SDG No.: 0811131B

GC Column(1): DB-608 ID: 0.53 (mm) GC Column(2): _____ ID: _____ (mm)

	EPA SAMPLE NO.	LSL ID	% REC1	% REC2	% REC3	% REC4	TOT OUT
			(TCX) 1 #	(TCX) 2 #	(DCB) 1 #	(DCB) 2 #	
28	Ith-13 (1-10)	0811166-007D	77		52		0
29	Ith-13 (10-14)	0811166-008D	108		74		0
30	Ith-1 (1-6)	0811166-009D	76		52		0
31	Ith-DUP2	0811166-010D	74		54		0
32	Ith-2 (1-6)	0811166-011D	72		52		0
33	Ith-3 (1-6)	0811166-012D	71		52		0
34	Ith-4 (1-6)	0811166-013D	82		57		0
35	Ith-6 (1-6)	0811166-014D	76		53		0

QC Limit

% REC1 (TCX) 1 =	Tetrachloro-m-xylene	44-134
% REC2 (TCX) 2 =	Tetrachloro-m-xylene	44-134
% REC3 (DCB) 1 =	Decachlorobiphenyl	36-141
% REC4 (DCB) 2 =	Decachlorobiphenyl	36-141

Column to be used to flag recovery values

* Values outside of contract required QC limits

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ANALYTICAL QC SUMMARY REPORT

Method: SW8082
Work Order: 0811166
Project: Ithaca Dredging

CLIENT: ERM Consulting & Engineering

Sample ID: 0811166-005DMS	SampType: MS	TestCode: 8082S	Units: mg/Kg-dry	Prep Date: 11/24/2008	RunNo: 15806
Client ID: Ith-16 (1-14)	Batch ID: 8517	Method: SW8082	(SW3550B)	Analysis Date: 12/12/2008	SeqNo: 411934
Instrument: GC90_20C	ColumnID: DB-606	J&W DB-608, 0.82 df			

Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	0.0370	0.0114	0.0446	0	83	29	167				
Aroclor 1260	0.0362	0.0114	0.0446	0	81	22	163				
Surr: Tetrachloro-m-xylene	0.0102	0	0.0134	0	76	44	134				
Surr: Decachlorobiphenyl	0.00689	0	0.0134	0	52	36	141				

Qualifiers: B Analyte detected in the associated Method Blank E Value exceeds the instrument calibration range J Analyte detected below the PQL
 ND Not Detected at the Practical Quantitation Limit (PQL) R RPD exceeds accepted precision limit S Spike Recovery outside accepted recovery limits
 U Not Detected at the MDC or RL

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ANALYTICAL QC SUMMARY REPORT

Method: SW8082
 Work Order: 0811166
 Project: Ithaca Dredging

CLIENT: ERM Consulting & Engineering

Sample ID: 0811166-005DMSD	SampType: MSD	TestCode: 8082S	Units: mg/Kg-dry	Prep Date: 11/24/2008	RunNo: 15806
Client ID: Ith-16 (1-14)	Batch ID: 8517	Method: SW8082	(SW3550B)	Analysis Date: 12/12/2008	SeqNo: 411935
Instrument: GC90_20C	ColumnID: DB-608	J&W DB-608, 0.82 df			

Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	0.0379	0.0114	0.0446	0	85	29	167	0.037	2.5	60	
Aroclor 1260	0.0359	0.0114	0.0446	0	80	22	163	0.0362	1	59	
Surr: Tetrachloro-m-xylene	0.0103	0	0.0134	0	77	44	134	0	0	0	
Surr: Decachlorobiphenyl	0.00664	0	0.0134	0	50	36	141	0	0	0	

Qualifiers:
 B Analyte detected in the associated Method Blank
 ND Not Detected at the Practical Quantitation Limit (PQL)
 U Not Detected at the MDC or RI
 E Value exceeds the instrument calibration range
 R RPD exceeds accepted precision limit
 J Analyte detected below the PQL
 S Spike Recovery outside accepted recovery limits

Life Science Laboratories, Inc.
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ANALYTICAL QC SUMMARY REPORT

Method: SW8082
 Work Order: 0811166
 Project: Ithaca Dredging

CLIENT: ERM Consulting & Engineering

Sample ID: MSB-8517	Sample Type: MSB	Test Code: 8082S	Units: mg/Kg	Prep Date: 11/24/2008	Run No: 15806
Client ID: ZZZZZ	Batch ID: 8517	Method: SW8082	(SW3550B)	Analysis Date: 12/1/2008	Seq No: 411923
Instrument: GC90_20C	Column ID: DB-608	J&W DB-608, 0.82 df			

Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	0.0313	0.00850	0.0334	0	94	60	140				
Aroclor 1260	0.0339	0.00850	0.0334	0	102	60	138				
Surr: Tetrachloro-m-xylene	0.00877	0	0.01	0	88	44	134				
Surr: Decachlorobiphenyl	0.00542	0	0.01	0	54	36	141				

Qualifiers: B Analyte detected in the associated Method Blank E Value exceeds the instrument calibration range J Analyte detected below the PQL
 ND Not Detected at the Practical Quantitation Limit (PQL) R RPD exceeds accepted precision limit S Spike Recovery outside accepted recovery limits
 U Not Detected at the MDC or RL

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ANALYTICAL QC SUMMARY REPORT

Method: SW8082
 Work Order: 0811131
 Project: Ithaca Dredging

CLIENT: ERM Consulting & Engineering

Sample ID: LCS-8506	Sample Type: LCS	Test Code: 8082S	Units: mg/Kg	Prep Date: 11/21/2008	Run No: 15633
Client ID: ZZZZ	Batch ID: 8506	Method: SW8082	(SW3550B)	Analysis Date: 12/1/2008	Seq No: 409298
Instrument: GC90_20C	Column ID: DB-608	J&W DB-608, 0.82 df			

Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	0.0298	0.00850	0.0334	0	89	60	140				
Aroclor 1260	0.0283	0.00850	0.0334	0	85	60	138				
Surr: Tetrachloro-m-xylene	0.00825	0	0.01	0	82	44	134				
Surr: Decachlorobiphenyl	0.00497	0	0.01	0	50	36	141				

Qualifiers: B Analyte detected in the associated Method Blank E Value exceeds the instrument calibration range J Analyte detected below the PQL
 ND Not Detected at the Practical Quantitation Limit (PQL) R RPD exceeds accepted precision limit S Spike Recovery outside accepted recovery limits
 U Not Detected at the MDC or RL

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ANALYTICAL QC SUMMARY REPORT

Method: SW8082
 Work Order: 0811131
 Project: Ithaca Dredging

CLIENT: ERM Consulting & Engineering

Sample ID: LCSD-8506	SampType: LCSD	TestCode: 8082S	Units: mg/Kg	Prep Date: 11/21/2008	RunNo: 15633
Client ID: ZZZZZ	Batch ID: 8506	Method: SW8082	(SW3550B)	Analysis Date: 12/1/2008	SeqNo: 409299
Instrument: GC90_20C	ColumnID: DB-608	J&W DB-608, 0.82 df			

Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	0.0322	0.00850	0.0334	0	96	60	140	0.0298	7.6	60	
Aroclor 1260	0.0310	0.00850	0.0334	0	93	60	138	0.0283	9.3	59	
Surr: Tetrachloro-m-xylene	0.00882	0	0.01	0	88	44	134	0	0	0	
Surr: Decachlorobiphenyl	0.00528	0	0.01	0	53	36	141	0	0	0	

Qualifiers: B Analyte detected in the associated Method Blank
 ND Not Detected at the Practical Quantitation Limit (PQL)
 U Not Detected at the MDC or RL
 E Value exceeds the instrument calibration range
 R RPD exceeds accepted precision limit
 J Analyte detected below the PQL
 S Spike Recovery outside accepted recovery limits

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ANALYTICAL QC SUMMARY REPORT

Method: SW8082
 Work Order: 0811131
 Project: Ithaca Dredging

CLIENT: ERM Consulting & Engineering

Sample ID: LCS-8506	SampType: LCS	TestCode: 8082S	Units: mg/Kg	Prep Date: 11/21/2008	RunNo: 15711
Client ID: ZZZZ	Batch ID: 8506	Method: SW8082	(SW3550B)	Analysis Date: 12/1/2008	SeqNo: 409326
Instrument: GC90_20D	ColumnID: DB-1701	J&W DB-1701			

Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	0.0313	0.00850	0.0334	0	94	60	140				
Aroclor 1260	0.0304	0.00850	0.0334	0	91	60	138				
Surr: Tetrachloro-m-xylene	0.00885	0	0.01	0	88	44	134				
Surr: Decachlorobiphenyl	0.00497	0	0.01	0	50	36	141				

Qualifiers: B Analyte detected in the associated Method Blank
 E Value exceeds the instrument calibration range
 J Analyte detected below the PQL
 ND Not Detected at the Practical Quantitation Limit (PQL)
 R RPD exceeds accepted precision limit
 S Spike Recovery outside accepted recovery limits
 U Not Detected at the MDC or RL

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ANALYTICAL QC SUMMARY REPORT

Method: SW8082
 Work Order: 0811131
 Project: Ithaca Dredging

CLIENT: ERM Consulting & Engineering

Sample ID: LCSD-8506	Sample Type: LCSD	Test Code: 8082S	Units: mg/Kg	Prep Date: 11/21/2008	Run No: 15711
Client ID: ZZZZ	Batch ID: 8506	Method: SW8082	(SW3550B)	Analysis Date: 12/1/2008	Seq No: 409327
Instrument: GC90_20D	Column ID: DB-1701	J&W DB-1701			

Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	0.0338	0.00850	0.0334	0	101	60	140	0.0313	7.8	60	
Aroclor 1260	0.0331	0.00850	0.0334	0	99	60	138	0.0304	8.4	59	
Surr: Tetrachloro-m-xylene	0.00950	0	0.01	0	95	44	134	0	0	0	
Surr: Decachlorobiphenyl	0.00527	0	0.01	0	53	36	141	0	0	0	

Qualifiers: B Analyte detected in the associated Method Blank
 ND Not Detected at the Practical Quantitation Limit (PQL)
 U Not Detected at the MDC or RL
 E Value exceeds the instrument calibration range
 R RPD exceeds accepted precision limit
 J Analyte detected below the PQL
 S Spike Recovery outside accepted recovery limits

Method: SW8082
 Work Order: 0811166
 Project: Ithaca Dredging

CLIENT: ERM Consulting & Engineering

Sample ID: LCS-8517	SampType: LCS	TestCode: 8082S	Units: mg/Kg	Prep Date: 11/24/2008	RunNo: 15806						
Client ID: ZZZZ	Batch ID: 8517	Method: SW8082	(SW3550B)	Analysis Date: 12/11/2008	SeqNo: 411922						
Instrument: GC90_20C	ColumnID: DB-608	J&W DB-608, 0.82 df									
Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016	0.0327	0.00850	0.0334	0	98	60	140				
Aroclor 1260	0.0326	0.00850	0.0334	0	98	60	138				
Surr: Tetrachloro-m-xylene	0.00895	0	0.01	0	90	44	134				
Surr: Decachlorobiphenyl	0.00562	0	0.01	0	56	36	141				

Qualifiers: B Analyte detected in the associated Method Blank E Value exceeds the instrument calibration range J Analyte detected below the PQL
 ND Not Detected at the Practical Quantitation Limit (PQL) R RPD exceeds accepted precision limit S Spike Recovery outside accepted recovery limits
 U Not Detected at the MDC or RL

MB-8506

Lab Name: Life Science Laboratories Contract: _____Lab Code: LSLB Case No.: ERM SAS No.: _____ SDG No.: 0811131BLab Sample ID: MB-8506 Lab File ID: 120109.rstMatrix: (soil/water) S Extraction: (Type) SONCSulfur Cleanup: (Y/N) N Date Extracted: 11/21/2008Date Analyzed (1): 12/1/2008 Date Analyzed (2): 12/1/2008Time Analyzed (1): 17:04 Time Analyzed (2): 16:32Instrument ID (1): GC90 20C Instrument ID (2): GC90 20DGC Column (1): DB-608 ID: 0.5 (mm) GC Column (2): DB-1701 ID: 0.5 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
1	LCS-8506	LCS-8506	12/1/2008	12/1/2008
2	LCSD-8506	LCSD-8506	12/1/2008	12/1/2008
3	lth-3 (6-12)	0811131-001D	12/1/2008	
4	lth-4 (6-12)	0811131-002D	12/1/2008	12/1/2008
5	lth-2 (6-10)	0811131-003D	12/1/2008	12/1/2008
6	lth-2 (10-14)	0811131-004D	12/1/2008	12/1/2008
7	lth-6 (6-10)	0811131-005D	12/1/2008	
8	lth-6 (10-14)	0811131-006D	12/1/2008	
9	lth-8 (2-10)	0811142-001D	12/1/2008	12/1/2008
10	lth-8 (10-14)	0811142-002D	12/1/2008	
11	lth-7 (1-14)	0811142-003D	12/1/2008	12/1/2008
12	lth-5 (4-10)	0811142-004D	12/1/2008	12/1/2008
13	lth-5 (10-14)	0811142-005D	12/2/2008	
14	lth-1 (6-12)	0811142-006D	12/2/2008	12/2/2008
15	lth-Dup1	0811142-007D	12/2/2008	12/2/2008

COMMENTS:

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ANALYTICAL QC SUMMARY REPORT

Method: SW8082
 Work Order: 0811131
 Project: Ithaca Dredging

CLIENT: ERM Consulting & Engineering

Sample ID: MB-8506	Sample Type: MBLK	Test Code: 8082S	Units: mg/Kg	Prep Date: 11/21/2008	Run No: 15633
Client ID: ZZZZZ	Batch ID: 8506	Method: SW8082	(SW3550B)	Analysis Date: 12/1/2008	Seq No: 409297
Instrument: GC90_20C	Column ID: DB-608	J&W DB-608, 0.82 df			

Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	ND	0.00850									
Aroclor 1221	ND	0.00850									
Aroclor 1232	ND	0.00850									
Aroclor 1242	ND	0.00850									
Aroclor 1248	ND	0.00850									
Aroclor 1254	ND	0.00850									
Aroclor 1260	ND	0.00850									
Surr: Tetrachloro-m-xylene	0.00842	0	0.01	0	84	44	134				
Surr: Decachlorobiphenyl	0.00498	0	0.01	0	50	36	141				

Qualifiers: B Analyte detected in the associated Method Blank E Value exceeds the instrument calibration range J Analyte detected below the PQL
 ND Not Detected at the Practical Quantitation Limit (PQL) R RPD exceeds accepted precision limit S Spike Recovery outside accepted recovery limits
 U Not Detected at the MDC or RL

15-Dec-08

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ANALYTICAL QC SUMMARY REPORT

Method: SW8082
Work Order: 0811131
Project: Ithaca Dredging

CLIENT: ERM Consulting & Engineering

Sample ID: MB-8506	SampType: MBLK	TestCode: 8082S	Units: mg/Kg	Prep Date: 11/21/2008	RunNo: 15711
Client ID: ZZZZ	Batch ID: 8506	Method: SW8082	(SW3550B)	Analysis Date: 12/1/2008	SeqNo: 409325
Instrument: GC90_20D	ColumnID: DB-1701	J&W DB-1701			

Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	ND	0.00850									
Aroclor 1221	ND	0.00850									
Aroclor 1232	ND	0.00850									
Aroclor 1242	ND	0.00850									
Aroclor 1248	ND	0.00850									
Aroclor 1254	ND	0.00850									
Aroclor 1260	ND	0.00850									
Surr: Tetrachloro-m-xylene	0.00920	0	0.01	0	92	44	134				
Surr: Decachlorobiphenyl	0.00492	0	0.01	0	49	36	141				

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range	J	Analyte detected below the PQL
	ND	Not Detected at the Practical Quantitation Limit (PQL)	R	RPD exceeds accepted precision limit	S	Spike Recovery outside accepted recovery limits
	U	Not Detected at the MDC or RL				

MB-8517

Lab Name: Life Science Laboratories Contract: _____

Lab Code: LSLB Case No.: ERM SAS No.: _____ SDG No.: 0811131B

Lab Sample ID: MB-8517 Lab File ID: 121108.rst

Matrix: (soil/water) S Extraction: (Type) SONC

Sulfur Cleanup: (Y/N) N Date Extracted: 11/24/2008

Date Analyzed (1): 12/11/2008 Date Analyzed (2): _____

Time Analyzed (1): 21:26 Time Analyzed (2): _____

Instrument ID (1): GC90 20C Instrument ID (2): _____

GC Column (1): DB-608 ID: 0.5 (mm) GC Column (2): _____ ID: _____ (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
1:	LCS-8517	LCS-8517	12/11/2008	
2:	MSB-8517	MSB-8517	12/11/2008	
3:	lth-9 (1-14)	0811166-001D	12/12/2008	
4:	lth-10 (1-14)	0811166-002D	12/12/2008	
5:	lth-11 (1-14)	0811166-003D	12/12/2008	
6:	lth-12 (1-14)	0811166-004D	12/12/2008	
7:	lth-16 (1-14)	0811166-005D	12/12/2008	
8:	lth-16 (1-14)MS	0811166-005DMS	12/12/2008	
9:	lth-16 (1-14)MSD	0811166-005DMSD	12/12/2008	
10:	lth-14 (1-14)	0811166-006D	12/12/2008	
11:	lth-13 (1-10)	0811166-007D	12/12/2008	
12:	lth-13 (10-14)	0811166-008D	12/12/2008	
13:	lth-1 (1-6)	0811166-009D	12/12/2008	
14:	lth-DUP2	0811166-010D	12/12/2008	
15:	lth-2 (1-6)	0811166-011D	12/12/2008	
16:	lth-3 (1-6)	0811166-012D	12/12/2008	
17:	lth-4 (1-6)	0811166-013D	12/12/2008	
18:	lth-6 (1-6)	0811166-014D	12/12/2008	

COMMENTS: _____

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ANALYTICAL QC SUMMARY REPORT

Method: SW8082
 Work Order: 0811166
 Project: Ithaca Dredging

CLIENT: ERM Consulting & Engineering

Sample ID: MB-8517	SampType: MBLK	TestCode: 8082S	Units: mg/Kg	Prep Date: 11/24/2008	RunNo: 15806
Client ID: ZZZZZ	Batch ID: 8517	Method: SW8082	(SW3550B)	Analysis Date: 12/11/2008	SeqNo: 411921
Instrument: GC90_20C	ColumnID: DB-608	J&W DB-608, 0.82 df			

Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	ND	0.00850									
Aroclor 1221	ND	0.00850									
Aroclor 1232	ND	0.00850									
Aroclor 1242	ND	0.00850									
Aroclor 1248	ND	0.00850									
Aroclor 1254	ND	0.00850									
Aroclor 1260	ND	0.00850									
Surr: Tetrachloro-m-xylene	0.00917	0	0.01	0	92	44	134				
Surr: Decachlorobiphenyl	0.00567	0	0.01	0	57	36	141				

Qualifiers: B Analyte detected in the associated Method Blank E Value exceeds the instrument calibration range J Analyte detected below the PQL
 ND Not Detected at the Practical Quantitation Limit (PQL) R RPD exceeds accepted precision limit S Spike Recovery outside accepted recovery limits
 U Not Detected at the MDC or RL

Trace Metals Data

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ANALYTICAL QC SUMMARY REPORT

Method: SW6010B
 Work Order: 0811166
 Project: Ithaca Dredging

CLIENT: ERM Consulting & Engineering

Sample ID: 0811166-005DMS SampType: MS TestCode: 6010S Units: mg/Kg-dry Prep Date: 12/2/2008 RunNo: 15689
 Client ID: Ith-16 (1-14) Batch ID: 8539 Method: SW6010B (SW3050B) Analysis Date: 12/3/2008 SeqNo: 408579
 Instrument: ColumnID:

Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	55.6	1.3	53.5	2.45	99	60	140				
Cadmium	49.0	0.67	53.5	0	92	60	140				
Chromium	59.7	1.3	53.5	10.1	93	60	140				
Copper	61.2	1.3	53.5	8	99	60	140				
Lead	55.5	1.3	53.5	5.51	93	60	140				
Nickel	63.9	6.7	53.5	14.8	92	60	140				
Zinc	91.1	2.7	53.5	43.1	90	60	140				

Qualifiers: B Analyte detected in the associated Method Blank E Value exceeds the instrument calibration range J Analyte detected below the PQL
 ND Not Detected at the Practical Quantitation Limit (PQL) R RPD exceeds accepted precision limit S Spike Recovery outside accepted recovery limits
 U Not Detected at the MDC or RL

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ANALYTICAL QC SUMMARY REPORT

Method: SW6010B
 Work Order: 0811166
 Project: Ithaca Dredging

CLIENT: ERM Consulting & Engineering

Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	55.3	1.3	53.5	2.45	99	60	140	55.6	1	20	
Cadmium	49.3	0.67	53.5	0	92	60	140	49	1	20	
Chromium	59.6	1.3	53.5	10.1	92	60	140	59.7	0	20	
Copper	60.7	1.3	53.5	8	99	60	140	61.2	1	20	
Lead	55.0	1.3	53.5	5.51	93	60	140	55.5	1	20	
Nickel	63.6	6.7	53.5	14.8	91	60	140	63.9	1	20	
Zinc	89.5	2.7	53.5	43.1	87	60	140	91.1	2	20	

Sample ID: 0811166-005DMSD SampType: MSD
 Client ID: Ith-16 (1-14) Batch ID: 8539
 Instrument: ColumnID: .

TestCode: 6010S Units: mg/Kg-dry
 Method: SW6010B (SW3050B)

Prep Date: 12/2/2008 RunNo: 15889
 Analysis Date: 12/3/2008 SeqNo: 408580

Qualifiers: B Analyte detected in the associated Method Blank E Value exceeds the instrument calibration range J Analyte detected below the PQL
 ND Not Detected at the Practical Quantitation Limit (PQL) R RPD exceeds accepted precision limit S Spike Recovery outside accepted recovery limits
 U Not Detected at the MDC or RL

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ANALYTICAL QC SUMMARY REPORT

Method: SW6010B
Work Order: 0811166
Project: Ithaca Dredging

CLIENT: ERM Consulting & Engineering

Sample ID: 0811166-005D SampType: PDS TestCode: 6010S Units: mg/Kg-dry Prep Date: 12/2/2008 RunNo: 15689
 Client ID: Ith-16 (1-14) Batch ID: 8539 Method: SW6010B (SW3050B) Analysis Date: 12/3/2008 SeqNo: 408582
 Instrument: ColumnID:

Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	53.8	1.3	53.5	2.45	96	75	125				
Cadmium	47.7	0.67	53.5	0	89	75	125				
Chromium	59.1	1.3	53.5	10.1	92	75	125				
Copper	59.5	1.3	53.5	8	96	75	125				
Lead	53.5	1.3	53.5	5.51	90	75	125				
Nickel	64.1	6.7	53.5	14.8	92	75	125				
Zinc	92.0	2.7	53.5	43.1	92	75	125				

Qualifiers: B Analyte detected in the associated Method Blank E Value exceeds the instrument calibration range J Analyte detected below the PQL
 ND Not Detected at the Practical Quantitation Limit (PQL) R RPD exceeds accepted precision limit S Spike Recovery outside accepted recovery limits
 U Not Detected at the MDC or RL

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ANALYTICAL QC SUMMARY REPORT

Method: SW6010B
 Work Order: 0811142
 Project: Ithaca Dredging

CLIENT: ERM Consulting & Engineering

Sample ID: LCS-8538 SampType: LCS TestCode: 6010S Units: mg/Kg Prep Date: 12/2/2008 RunNo: 15889
 Client ID: ZZZZZ Batch ID: 8538 Method: SW6010B (SW3050B) Analysis Date: 12/3/2008 SeqNo: 408597
 Instrument: ColumnID:

Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.7	1.0	20	0	99	85	115				
Cadmium	19.4	0.50	20	0	97	85	115				
Chromium	20.0	1.0	20	0	100	85	115				
Copper	19.9	1.0	20	0	100	85	115				
Lead	19.5	1.0	20	0	98	85	115				
Nickel	20.3	5.0	20	0	102	85	115				
Zinc	21.9	2.0	20	0	110	85	115				

Qualifiers: B Analyte detected in the associated Method Blank E Value exceeds the instrument calibration range J Analyte detected below the PQL
 ND Not Detected at the Practical Quantitation Limit (PQL) R RPD exceeds accepted precision limit S Spike Recovery outside accepted recovery limits
 U Not Detected at the MDC or RL

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ANALYTICAL QC SUMMARY REPORT

Method: SW6010B
Work Order: 0811166
Project: Ithaca Dredging

CLIENT: ERM Consulting & Engineering

Sample ID: LCS-8539 SampType: LCS TestCode: 6010S Units: mg/Kg Prep Date: 12/2/2008 RunNo: 15689
 Client ID: ZZZZ Batch ID: 8539 Method: SW6010B (SW3050B) Analysis Date: 12/3/2008 SeqNo: 408570
 Instrument: ColumnID:

Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Quat
Arsenic	19.8	1.0	20	0	99	85	115				
Cadmium	19.5	0.50	20	0	98	85	115				
Chromium	20.1	1.0	20	0	100	85	115				
Copper	19.9	1.0	20	0	99	85	115				
Lead	19.9	1.0	20	0	100	85	115				
Nickel	20.5	5.0	20	0	103	85	115				
Zinc	20.6	2.0	20	0	103	85	115				

Qualifiers: B Analyte detected in the associated Method Blank E Value exceeds the instrument calibration range J Analyte detected below the PQL
 ND Not Detected at the Practical Quantification Limit (PQL) R RPD exceeds accepted precision limit S Spike Recovery outside accepted recovery limits
 U Not Detected at the MDC or RL

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ANALYTICAL QC SUMMARY REPORT

Method: SW6010B
 Work Order: 0811142
 Project: Ithaca Dredging

CLIENT: ERM Consulting & Engineering

Sample ID: MB-8538	SampType: MBLK	TestCode: 6010S	Units: mg/Kg	RunNo: 15689
Client ID: ZZZZZ	Batch ID: 8538	Method: SW6010B	(SW3050B)	SeqNo: 408596
Instrument:	ColumnID:			
Prep Date: 12/2/2008	Analysis Date: 12/3/2008			

Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	1.0									
Cadmium	ND	0.50									
Chromium	ND	1.0									
Copper	ND	1.0									
Lead	ND	1.0									
Nickel	ND	5.0									
Zinc	0.532	2.0									J

Qualifiers: B Analyte detected in the associated Method Blank E Value exceeds the instrument calibration range J Analyte detected below the PQL
 ND Not Detected at the Practical Quantitation Limit (PQL) R RPD exceeds accepted precision limit S Spike Recovery outside accepted recovery limits
 U Not Detected at the MDC or RL

Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200
 East Syracuse, NY 13057 (315) 437-0200

ANALYTICAL QC SUMMARY REPORT

Method: SW6010B
 Work Order: 0811166
 Project: Ithaca Dredging

CLIENT: ERM Consulting & Engineering

Sample ID: MB-8539	SampType: MBLK	TestCode: 6010S	Units: mg/Kg	Prep Date: 12/2/2008	RunNo: 15689					
Client ID: ZZZZ	Batch ID: 8539	Method: SW6010B	(SW3050B)	Analysis Date: 12/3/2008	SeqNo: 408569					
Instrument:	ColumnID:									
Analyte	QC Sample Result	PQL	SPK Added	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	1.0								
Cadmium	ND	0.50								
Chromium	ND	1.0								
Copper	ND	1.0								
Lead	ND	1.0								
Nickel	ND	5.0								
Zinc	0.657	2.0								J

Qualifiers: B Analyte detected in the associated Method Blank E Value exceeds the instrument calibration range J Analyte detected below the PQL
 ND Not Detected at the Practical Quantitation Limit (PQL) R RPD exceeds accepted precision limit S Spike Recovery outside accepted recovery limits
 U Not Detected at the MDC or RL

Mercury Data

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ANALYTICAL QC SUMMARY REPORT

Method: SW7471A

Work Order: 0811142

CLIENT: ERM Consulting & Engineering

Project: Ithaca Dredging

Sample ID: 0811142-004DMS	Sample Type: MS	Test Code: HG7471S	Units: mg/Kg-dry	Prep Date: 12/1/08	Run No: 15669					
Client ID: Ith-5 (4-10)	Batch ID: 8536	Method: SW7471A	(SW7471A)	Analysis Date: 12/3/08	Seq No: 408162					
Instrument:	Column ID:									
Analyte	QC Sample Result	PQL	SPK Added	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.636	0.15	0.508	95	27	153				
	Parent Sample Result									
	0.155									

Qualifiers: B Analyte detected in the associated Method Blank E Value exceeds the instrument calibration range J Analyte detected below the PQL
 ND Not Detected at the Practical Quantitation Limit (PQL) R RPD exceeds accepted precision limit S Spike Recovery outside accepted recovery limits
 U Not Detected at the MDC or RL

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ANALYTICAL QC SUMMARY REPORT

Method: SW7471A
Work Order: 0811142
Project: Ithaca Dredging

CLIENT: ERM Consulting & Engineering

Sample ID: 0811142-004DMSD	SampType: MSD	TestCode: HG7471S	Units: mg/Kg-dry	Prep Date: 12/1/08	RunNo: 15669				
Client ID: ith-5 (4-10)	Batch ID: 8536	Method: SW7471A	(SW7471A)	Analysis Date: 12/3/08	SeqNo: 408165				
Instrument:	ColumnID:								
Analyte	QC Sample Result	PQL	SPK Added	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.581	0.15	0.508	27	153	0.636	9.0	15	
	Parent Sample Result	%REC							
	0.155	84							

Qualifiers: B Analyte detected in the associated Method Blank E Value exceeds the instrument calibration range J Analyte detected below the PQL
 ND Not Detected at the Practical Quantitation Limit (PQL) R RPD exceeds accepted precision limit S Spike Recovery outside accepted recovery limits
 U Not Detected at the MDC or RL

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ANALYTICAL QC SUMMARY REPORT

Method: SW7471A
 Work Order: 0811166
 Project: Ithaca Dredging

CLIENT: ERM Consulting & Engineering

Sample ID: 0811166-005DMS	Batch ID: Ith-16 (1-14)	Instrument:	QC Sample Result	0.509	PQL	0.13	SPK Added	0.447	Parent Sample Result	0.0581	%REC	101	LowLimit	27	HighLimit	153	RPD Ref Val	%RPD	RPDLimit	Qual
TestCode: HG7471S	Method: SW7471A	Units: mg/Kg-dry (SW7471A)	QC Sample Result	0.509	PQL	0.13	SPK Added	0.447	Parent Sample Result	0.0581	%REC	101	LowLimit	27	HighLimit	153	RPD Ref Val	%RPD	RPDLimit	Qual
Sample Type: MS	Batch ID: 8535	ColumnID:	QC Sample Result	0.509	PQL	0.13	SPK Added	0.447	Parent Sample Result	0.0581	%REC	101	LowLimit	27	HighLimit	153	RPD Ref Val	%RPD	RPDLimit	Qual
Prep Date: 12/1/08	Analysis Date: 12/3/08	RunNo: 15669	QC Sample Result	0.509	PQL	0.13	SPK Added	0.447	Parent Sample Result	0.0581	%REC	101	LowLimit	27	HighLimit	153	RPD Ref Val	%RPD	RPDLimit	Qual
		SeqNo: 408184	QC Sample Result	0.509	PQL	0.13	SPK Added	0.447	Parent Sample Result	0.0581	%REC	101	LowLimit	27	HighLimit	153	RPD Ref Val	%RPD	RPDLimit	Qual

Analyte

Mercury

Qualifiers: B Analyte detected in the associated Method Blank E Value exceeds the instrument calibration range J Analyte detected below the PQL
 ND Not Detected at the Practical Quantitation Limit (PQL) R RPD exceeds accepted precision limit S Spike Recovery outside accepted recovery limits
 U Not Detected at the MDC or RL

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 East Syracuse, NY 13057 (315) 437-0200

ANALYTICAL QC SUMMARY REPORT

Method: SW7471A
 Work Order: 0811166
 Project: Ithaca Dredging

CLIENT: ERM Consulting & Engineering

Sample ID: 0811166-005DMSD	SampType: MSD	TestCode: HG7471S	Units: mg/Kg-dry	Prep Date: 12/1/08	RunNo: 15569					
Client ID: Ith-16 (1-14)	Batch ID: 8535	Method: SW7471A	(SW7471A)	Analysis Date: 12/3/08	SeqNo: 408185					
Instrument:	ColumnID:									
Analyte	QC Sample Result	PQL	SPK Added	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.427	0.13	0.447	83	27	153	0.509	17	15	R
	Parent Sample Result									
	0.0581									

Qualifiers: B Analyte detected in the associated Method Blank E Value exceeds the instrument calibration range J Analyte detected below the PQL
 ND Not Detected at the Practical Quantitation Limit (PQL) R RPD exceeds accepted precision limit S Spike Recovery outside accepted recovery limits
 U Not Detected at the MDC or RL

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ANALYTICAL QC SUMMARY REPORT

Method: SW7471A
 Work Order: 0811166

Project: Ithaca Dredging

CLIENT: ERM Consulting & Engineering

Sample ID: 0811166-005D	SampType: PDS	TestCode: HG7471S	Units: mg/Kg-dry	Prep Date: 12/1/08	RunNo: 15669
Client ID: lth-16 (1-14)	Batch ID: 8535	Method: SW7471A	(SW7471A)	Analysis Date: 12/3/08	SeqNo: 408202
Instrument:	ColumnID:				

Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.505	0.13	0.447	0.0581	100	85	115				

Qualifiers: B Analyte detected in the associated Method Blank
 ND Not Detected at the Practical Quantization Limit (PQL)
 U Not Detected at the MDC or RL
 E Value exceeds the instrument calibration range
 R RPD exceeds accepted precision limit
 J Analyte detected below the PQL
 S Spike Recovery outside accepted recovery limits

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ANALYTICAL QC SUMMARY REPORT

Method: SW7471A
 Work Order: 0811166
 Project: Ithaca Dredging

CLIENT: ERM Consulting & Engineering

Sample ID: LCS-8535	SampType: LCS	TestCode: HG7471S	Unifs: mg/Kg	Prep Date: 12/1/08	RunNo: 15669				
Client ID: ZZZZZ	Batch ID: 8535	Method: SW7471A	(SW7471A)	Analysis Date: 12/3/08	SeqNo: 408170				
Instrument:	ColumnID:								
Analyte	QC Sample Result	PQL	SPK Added	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.851	0.10	0.835	85	115		102		
			Parent Sample Result						
			0						

Qualifiers: B Analyte detected in the associated Method Blank E Value exceeds the instrument calibration range J Analyte detected below the PQL
 ND Not Detected at the Practical Quantitation Limit (PQL) R RPD exceeds accepted precision limit S Spike Recovery outside accepted recovery limits
 U Not Detected at the MDC or RL

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ANALYTICAL QC SUMMARY REPORT

Method: SW7471A
 Work Order: 0811142
 Project: Ithaca Dredging

CLIENT: ERM Consulting & Engineering

Sample ID: LCS-8536	SampType: LCS	TestCode: HG7471S	Units: mg/Kg	Prep Date: 12/1/08	RunNo: 15669					
Client ID: ZZZZ	Batch ID: 8536	Method: SW7471A	(SW7471A)	Analysis Date: 12/3/08	SeqNo: 408205					
Instrument:	ColumnID:									
Analyte	QC Sample Result	PQL	SPK Added	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.842	0.10	0.835	101	85	115				
	Parent Sample Result									
	0									

Qualifiers: B Analyte detected in the associated Method Blank E Value exceeds the instrument calibration range J Analyte detected below the PQL
 ND Not Detected at the Practical Quantitation Limit (PQL) R RPD exceeds accepted precision limit S Spike Recovery outside accepted recovery limits
 U Not Detected at the MDC or RL

Life Science Laboratories, Inc.

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ANALYTICAL QC SUMMARY REPORT

Method: SW7471A

Work Order: 0811166

Project: Ithaca Dredging

CLIENT: ERM Consulting & Engineering

Sample ID: MB-8535	SampType: MBLK	TestCode: HG7471S	Units: mg/Kg	Prep Date: 12/1/08	RunNo: 15889					
Client ID: ZZZZZ	Batch ID: 8535	Method: SW7471A	(SW7471A)	Analysis Date: 12/3/08	SeqNo: 408169					
Instrument:	ColumnID:									
Analyte	QC Sample Result	PQL	SPK Added	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.10								

Parent Sample Result

Qualifiers: B Analyte detected in the associated Method Blank E Value exceeds the instrument calibration range J Analyte detected below the PQL
 ND Not Detected at the Practical Quantitation Limit (PQL) R RPD exceeds accepted precision limit S Spike Recovery outside accepted recovery limits
 U Not Detected at the MDC or RL

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Life Science Laboratories, Inc.

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ANALYTICAL QC SUMMARY REPORT

Method: SW7471A
 Work Order: 0811142
 Project: Ithaca Dredging

CLIENT: ERM Consulting & Engineering

Sample ID: MB-8536	SampType: MBLK	TestCode: HG7471S	Units: mg/Kg	Prep Date: 12/1/08	RunNo: 15669				
Client ID: ZZZZZ	Batch ID: 8536	Method: SW7471A	(SW7471A)	Analysis Date: 12/3/08	SeqNo: 408204				
Instrument:	ColumnID:								
Analyte	QC Sample Result	PQL	SPK Added	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.10							

Parent Sample Result

Qualifiers: B Analyte detected in the associated Method Blank E Value exceeds the instrument calibration range J Analyte detected below the PQL
 ND Not Detected at the Practical Quantitation Limit (PQL) R RPD exceeds accepted precision limit S Spike Recovery outside accepted recovery limits
 U Not Detected at the MDC or RL

Llyod Kahn

TOC

Lab Name: TESTAMERICA PITTSBURGH

Method:

EPA

Lloyd Kahn

Client Name: Life Science Laboratories Inc

Lot Number:

C8K260239

Matrix: SOLID

NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION

Client Sample ID	Sample Number	Workorder	Result	Units	Min. Detection Limit	Reporting Limit	Dilution Factor	Prep Date - Analysis Date/Time	QC Batch
ITH-9 (1-14)	C8K260239 001	K3QAP1AC	28600	mg/kg	363	1580	2.07	11/28/2008 - 11/28/2008 14:26	8333068
ITH-10 (1-14)	C8K260239 002	K3QA31AC	33800	mg/kg	364	1670	2.21	11/28/2008 - 11/28/2008 14:36	8333068
ITH-11 (1-14)	C8K260239 003	K3QA51AC	27700	mg/kg	369	1610	2.14	11/28/2008 - 11/28/2008 14:49	8333068
ITH-12 (1-14)	C8K260239 004	K3QA81AC	21100	mg/kg	428	1860	2.21	11/28/2008 - 11/28/2008 14:59	8333068
ITH-16 (1-14)	C8K260239 005	K3QA91AC	7760	mg/kg	280	1220	1.79	11/28/2008 - 12/2/2008 11:09	8333069
ITH-14 (1-14)	C8K260239 006	K3QCD1AC	14000	mg/kg	264	1150	1.78	11/28/2008 - 12/2/2008 11:40	8333069
ITH-13 (1-10)	C8K260239 007	K3QCH1AC	11300	mg/kg	348	1510	2.33	11/28/2008 - 12/2/2008 12:00	8333069
ITH-13 (10-14)	C8K260239 008	K3QCV1AC	15200	mg/kg	293	1270	1.77	11/28/2008 - 12/2/2008 12:10	8333069
ITH-1 (1-6)	C8K260239 009	K3QC01AC	23700	mg/kg	350	1520	1.84	11/28/2008 - 12/2/2008 12:20	8333069
ITH-DUP2	C8K260239 010	K3QC41AC	35500	mg/kg	378	1640	2.05	11/28/2008 - 12/2/2008 12:31	8333069
ITH-2 (1-6)	C8K260239 011	K3QC71AC	17500	mg/kg	439	1810	1.98	11/28/2008 - 12/2/2008 12:41	8333069
ITH-3 (1-6)	C8K260239 012	K3QC91AC	25200	mg/kg	421	1830	1.89	11/28/2008 - 12/2/2008 12:51	8333069
ITH-4 (1-6)	C8K260239 013	K3QDC1AC	15100	mg/kg	269	1170	1.47	11/28/2008 - 12/2/2008 13:01	8333069
ITH-6 (1-6)	C8K260239 014	K3QDD1AC	17200	mg/kg	383	1660	2.04	11/28/2008 - 12/2/2008 13:11	8333069
ITH-3 (6-12)	C8K260239 015	K3QDH1AC	10500	mg/kg	301	1310	1.92	11/28/2008 - 11/28/2008 15:09	8333068
ITH-4 (6-12)	C8K260239 016	K3QDL1AC	10400	mg/kg	355	1540	2.29	11/28/2008 - 11/28/2008 15:19	8333068
ITH-2 (6-10)	C8K260239 017	K3QDQ1AC	22900	mg/kg	349	1520	2.07	11/28/2008 - 11/28/2008 15:30	8333068
ITH-2 (10-14)	C8K260239 018	K3QDT1AC	20400	mg/kg	340	1480	1.98	11/28/2008 - 12/2/2008 08:17	8337048

TESTAMERICA PITTSBURGH

General Chemistry results by parameter

Llyod Kahn

TOC

Lab Name: TESTAMERICA PITTSBURGH
Client Name: Life Science Laboratories Inc
Matrix: SOLID

Method: EPA Lloyd Kahn
Lot Number: C8K260239

ITH-6 (6-10)	C8K260239 019	K3QDW1A	34900	mg/kg	324	1410	1.82	11/28/2008 - 12/2/2008 08:27	8337046
ITH-6 (10-14)	C8K260239 020	K3QD21AC	30500	mg/kg	360	1650	2.16	11/28/2008 - 12/2/2008 08:37	8337046
ITH-8 (2-10)	C8K260239 021	K3QD51AC	18900	mg/kg	279	1210	1.76	11/28/2008 - 12/2/2008 08:47	8337046
ITH-8 (10-14)	C8K260239 022	K3QD91AC	23900	mg/kg	299	1300	1.85	11/28/2008 - 12/2/2008 08:57	8337046
ITH-7 (1-14)	C8K260239 023	K3QED1AC	14400	mg/kg	270	1170	1.74	11/28/2008 - 12/2/2008 09:07	8337046
ITH-5 (4-10)	C8K260239 024	K3QEH1AC	26700	mg/kg	287	1250	1.63	11/28/2008 - 12/2/2008 09:17	8337046
ITH-5 (10-14)	C8K260239 025	K3QEM1AC	3970	mg/kg	162	706	1.1	12/2/2008 - 12/2/2008 22:31	8333215
ITH-1 (6-12)	C8K260239 026	K3QEQ1AC	17600	mg/kg	344	1490	1.96	11/28/2008 - 12/2/2008 09:38	8337046
ITH-DUP1	C8K260239 027	K3QET1AC	18200	mg/kg	320	1390	1.69	11/28/2008 - 12/2/2008 09:48	8337046



PW LABORATORIES, INC.
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December 9, 2008

Mr. Todd Marsh
 Environmental Resources Management (ERM)
 5788 Widewaters Parkway
 Dewitt, New York 13214

Re: L-08199
 Laboratory Testing
 Ithaca Project

Dear Mr. Marsh:

Enclosed are the results of laboratory testing performed at your request on twenty-five bulk soil samples delivered to our laboratory on November 24, 2008 for the above referenced project. Results include:

- | | |
|---|---------|
| 1. Natural Moisture Content ASTM D2216
Laboratory I.D. #'s 23845 – 23869 | 25 Each |
| 2. Sieve Analysis ASTM D422 & D1140
Laboratory I.D. #'s 23845 – 23869 | 25 Each |
| 3. Hydrometer Analysis ASTM D422
Laboratory I.D. #'s 23845 – 23869 | 25 Each |
| 4. Atterberg Limits ASTM D4318
Laboratory I.D. #'s 23845 – 23869 | 25 Each |
| 5. Specific Gravity ASTM D854
Laboratory I.D. #'s 23845 – 23869 | 25 Each |

All requested tests have been completed on the previously received sample(s) for the above project. All sample remains are scheduled to be disposed of on January 10, 2009. Please notify PW Laboratories, Inc. by letter or telephone prior to January 10, 2009 if you would prefer to pick up the sample(s) or that the sample(s) be retained by PW Laboratories, Inc. for an additional period of time.

Thank you for this opportunity to work with you.

Very truly yours,

PW LABORATORIES, INC.

Virginia J. Thoma
 Manager - Laboratory Services
 VJT/bll
 Encs:



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315-437-1420 • 866-7PW-LABS • Fax 315-437-1752

December 9, 2008

L-08199
Laboratory Testing
Ithaca Project

NATURAL MOISTURE CONTENT
ASTM D2216

Lab I.D. #	Sample #	Depth (feet)	Moisture Content as a Percent of Dry Weight
23845	Ith-3	6.0-12.0	29.6
23846	Ith-4	6.0-12.0	37.4
23847	Ith-2	6.0-10.0	55.1
23848	Ith-2	10.0-14.0	43.6
23849	Ith-6	6.0-10.0	51.6
23850	Ith-6	10.0-14.0	52.6
23851	Ith-8	2.0-10.0	49.9
23852	Ith-8	10.0-14.0	40.5
23853	Ith-7	7.0-14.0	37.4
23854	Ith-5	4.0-10.0	51.1
23855	Ith-5	10.0-14.0	31.1
23856	Ith-1	6.0-12.0	51.8
23857	Ith-9	1.0-14.0	58.3
23858	Ith-10	1.0-14.0	57.1
23859	Ith-11	1.0-14.0	54.2
23860	Ith-12	1.0-14.0	34.5
23861	Ith-16	1.0-14.0	28.7
23862	Ith-14	1.0-14.0	32.7
23863	Ith-13	1.0-14.0	48.1
23864	Ith-13	1.0-10.0	37.0
23865	Sample #1	Surface	72.2
23866	Sample #2	Surface	84.3
23867	Sample #3	Surface	78.0
23868	Sample #4	Surface	50.2
23869	Sample #6	Surface	62.4



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SIEVE ANALYSIS OF
 SOIL / AGGREGATE

Project Title: Laboratory Testing
Ithaca Project

Project #: L-08199
 Test Method: ASTM D422 & D1140

Report #: I
 Report Date: December 9, 2008

Lab I.D. #	Sample	Depth (feet)	Sieve Size - Percent Passing Sieve													
			2"	1 1/2"	1"	3/4"	1/2"	3/8"	1/4"	#4	#10	#30	#40	#60	#100	#200
23845	Ith-3	6.0-12.0	--	--	--	--	--	--	--	100	99.5	97.2	96.0	92.3	82.8	49.3
23846	Ith-4	6.0-12.0	--	--	--	--	--	--	--	100	99.8	98.9	98.2	95.2	85.6	61.7
23847	Ith-2	6.0-10.0	--	--	--	--	100	99.0	98.7	98.3	98.1	97.6	97.2	96.1	94.5	89.9
23848	Ith-2	10.0-14.0	--	--	100	99.2	99.2	99.2	99.2	99.1	98.6	97.9	97.6	96.8	95.6	89.0
23849	Ith-6	6.0-10.0	--	--	--	--	100	99.8	99.4	99.1	98.0	93.4	90.0	83.4	79.8	72.9
23850	Ith-6	10.0-14.0	--	--	--	--	--	--	--	100	99.8	99.2	98.8	98.0	97.1	94.2
23851	Ith-8	2.0-10.0	--	--	--	--	100	99.5	99.2	98.6	97.6	94.7	92.8	89.0	81.7	68.8
23852	Ith-8	10.0-14.0	--	--	--	--	100	99.2	96.6	95.2	92.5	90.0	89.2	86.7	78.4	65.9
23853	Ith-7	7.0-14.0	--	--	--	--	--	--	--	100	99.9	98.6	97.6	90.6	71.2	47.5

Sample mass, as received, meets minimum mass requirements of test method: Yes _____ No X

Prewashed: Yes X No _____

Remarks: _____

Performed By: ES & SC

Checked By: V.J. Thoma



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SIEVE ANALYSIS OF
 SOIL / AGGREGATE

Project Title: Laboratory Testing
Ithaca Project

Project #: L-08199
 Test Method: ASTM D422 & D1140

Report #: 1
 Report Date: December 9, 2008

Lab I.D. #	Sample	Depth (feet)	Sieve Size - Percent Passing Sieve													
			2"	1 1/2"	1"	3/4"	1/2"	3/8"	1/4"	#4	#10	#30	#40	#60	#100	#200
23854	Ith-5	4.0-10.0	--	--	--	--	100	99.7	99.5	99.4	98.5	95.7	94.2	89.8	80.1	62.4
23855	Ith-5	10.0-14.0	--	--	--	--	100	99.4	99.3	99.2	99.1	98.7	98.1	92.2	67.2	34.2
23856	Ith-1	6.0-12.0	--	--	--	--	--	--	--	--	100	99.8	99.6	99.1	98.2	90.6
23857	Ith-9	1.0-14.0	--	--	--	--	100	99.5	98.6	98.0	96.1	91.7	90.1	87.7	84.8	78.2
23858	Ith-10	1.0-14.0	--	--	--	--	100	99.7	99.4	99.2	98.4	94.7	92.2	88.4	85.4	79.1
23859	Ith-11	1.0-14.0	--	--	--	--	--	100	99.9	99.8	99.5	96.6	93.2	83.5	78.6	71.1
23860	Ith-12	1.0-14.0	--	--	--	100	99.8	99.8	99.1	97.9	93.0	80.8	73.2	45.2	27.5	20.3
23861	Ith-16	1.0-14.0	--	--	--	--	--	100	99.8	99.7	97.6	90.1	85.4	66.0	42.2	27.5
23862	Ith-14	1.0-14.0	--	--	100	94.6	88.7	85.6	80.0	77.0	71.8	66.0	63.8	61.1	59.2	53.8

Sample mass, as received, meets minimum mass requirements of test method: Yes _____ No X

Prewashed: Yes _____ X No _____

Remarks: _____

Performed By: ES & SC

Checked By: V.J. Thoma



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SIEVE ANALYSIS OF
 SOIL / AGGREGATE

Project Title: Laboratory Testing
Ithaca Project

Project #: L-08199
 Test Method: ASTM D422 & D1140

Report #: 1
 Report Date: December 9, 2008

			Sieve Size - Percent Passing Sieve													
Lab I.D. #	Sample	Depth (feet)	2"	1 1/2"	1"	3/4"	1/2"	3/8"	1/4"	#4	#10	#30	#40	#60	#100	#200
23863	Ith-13	1.0-14.0	--	--	--	100	98.8	98.5	98.3	98.3	98.0	97.3	96.1	95.4	94.4	89.1
23864	Ith-13	1.0-10.0	--	--	--	100	98.2	96.4	92.8	90.7	84.8	76.9	74.2	69.8	66.2	57.1
23865	Sample #1	Surface	--	--	--	--	--	--	--	100	99.8	99.0	98.6	97.7	95.4	71.3
23866	Sample #2	Surface	--	--	--	--	--	--	--	100	99.9	99.3	98.8	97.9	97.1	92.3
23867	Sample #3	Surface	--	--	--	--	--	--	--	100	99.7	97.7	96.9	95.7	94.2	82.4
23868	Sample #4	Surface	--	--	--	--	--	--	--	100	99.9	99.5	99.2	98.6	95.9	73.8
23869	Sample #6	Surface	--	--	--	--	--	--	--	100	99.9	99.4	99.1	98.4	95.5	74.6

Sample mass, as received, meets minimum mass requirements of test method: Yes _____ No X

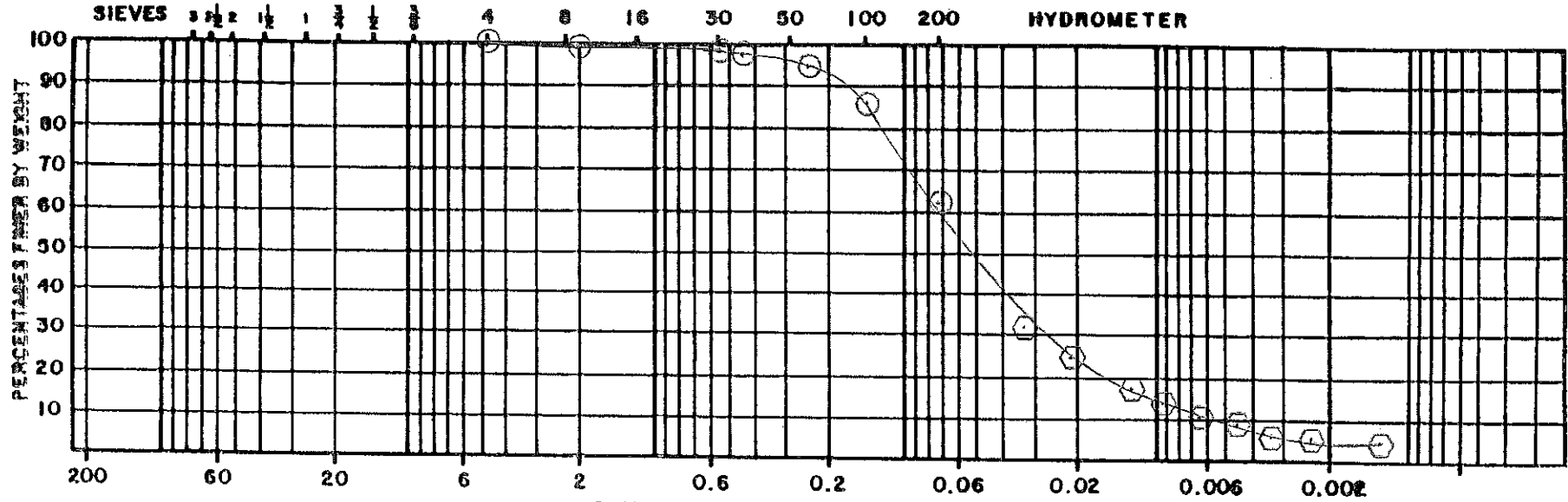
Prewashed: Yes X No _____

Remarks: _____

Performed By: ES & SC

Checked By: V.J. Thoma

GRAIN SIZE ANALYSIS



BOULDERS COBBLES	GRAVEL			F	C	SAND			SILT-CLAY SOIL
	C	M	F			C	M	F	
228	76.2	25.4	9.52		2.0	0.59	0.25	0.074	MM.
9 in.	3 in.	1 in.	3/8 in.		No. 10	30	60	200	OPENING SIEVE

L-08199	Lab I.D. #:	23846
Laboratory Testing	Sample:	Ith-4
Ithaca Project	Depth (feet):	6.0 - 12.0
⊙ Sieve Analysis ASTM D422 & D1140		
⊚ Hydrometer Analysis ASTM D422		



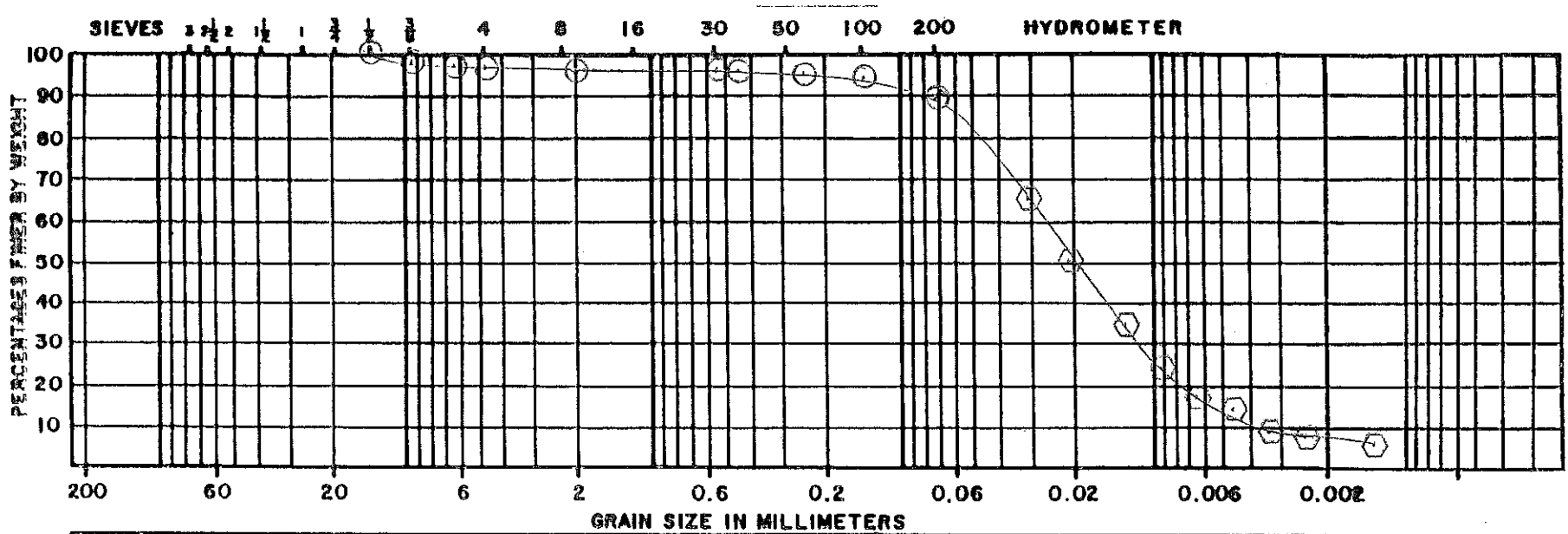
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Job No.: L-08199
 Report No.: 3
 Date: December 9, 2008

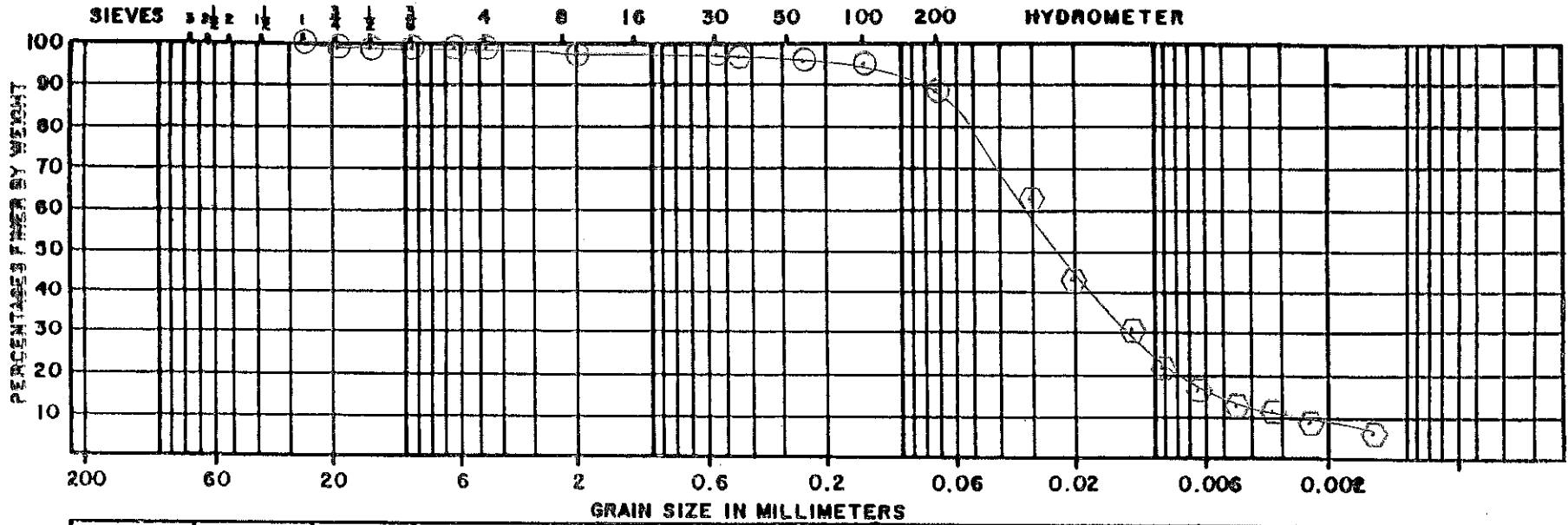
GRAIN SIZE ANALYSIS



BOULDERS COBBLES		GRAVEL			SAND			SILT-CLAY SOIL	
C		C	M	F	C	M	F		
228	76.2	25.4	9.52	2.0	0.59	0.25	0.074	MM.	OPENING
9 in.	3 in.	1 in.	3/8 in.	Nos. 10	30	60	200		SIEVE

L-08199	Lab I.D. #:	23847
Laboratory Testing	Sample:	Ith-2
Ithaca Project	Depth (feet):	6.0-10.0
○ Sieve Analysis ASTM D422 & D1140		
◡ Hydrometer Analysis ASTM D422		

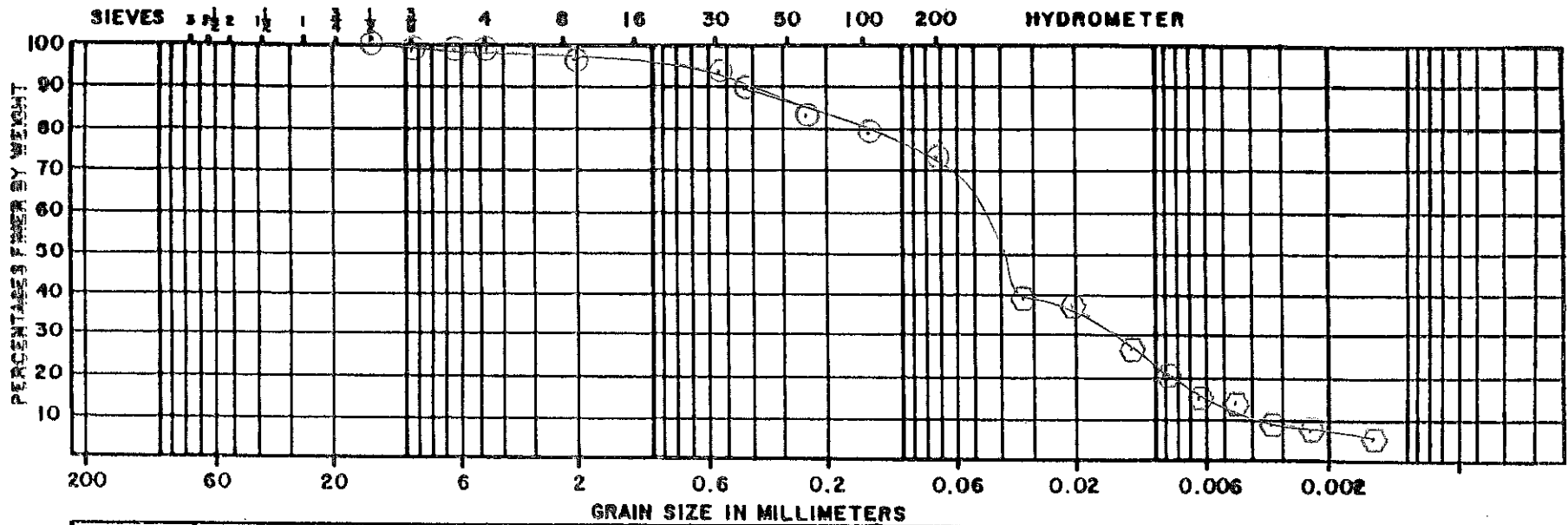
GRAIN SIZE ANALYSIS



BOULDERS COBBLES		GRAVEL			SAND			SILT-CLAY SOIL	
	C	M	F	C	M	F	MM.	OPENING SIEVE	
228	76.2	25.4	9.52	2.0	0.59	0.25	0.074		
9 in.	3 in.	1 in.	3/8 in.	No. 10	30	60	200		

L-08199	Lab ID. #:	23848
Laboratory Testing	Sample:	Ith-2
Ithaca Project	Depth (feet):	10.0-14.0
⊙ Sieve Analysis ASTM D422 & D1140		
⊚ Hydrometer Analysis ASTM D422		

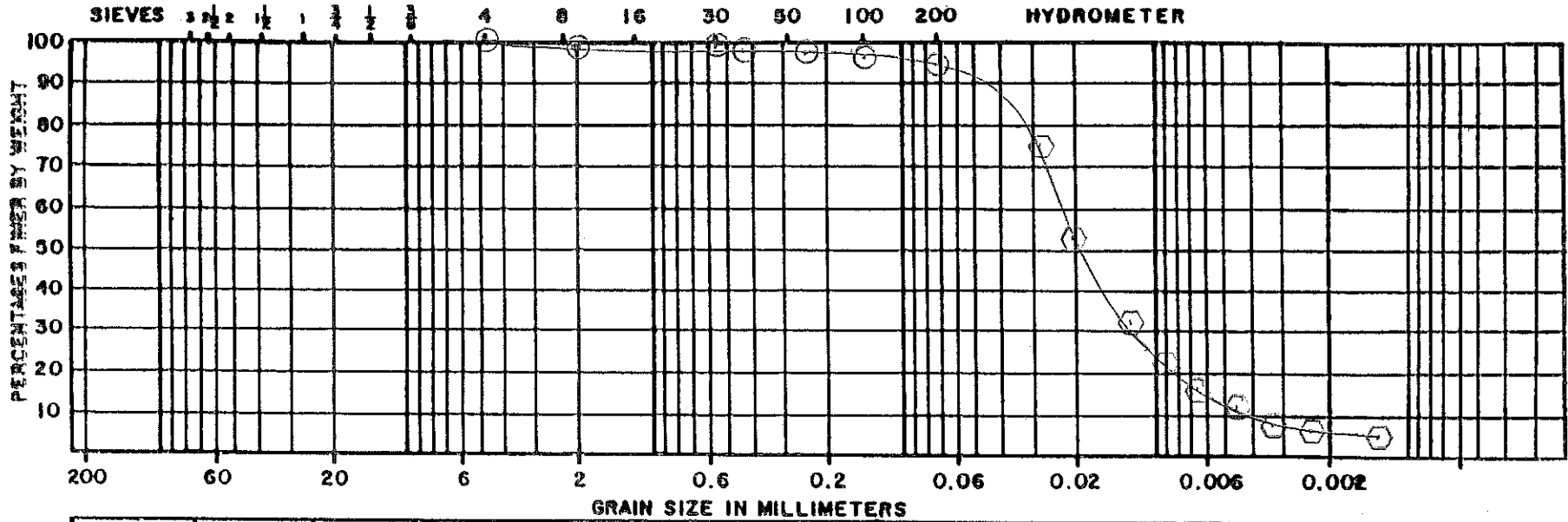
GRAIN SIZE ANALYSIS



BOULDERS COBBLES		GRAVEL			SAND			SILT-CLAY SOIL	
C		C	M	F	C	M	F	MM.	OPENING SIEVE
228	76.2	25.4	9.52		2.0	0.59	0.25	0.074	
9 in.	3 in.	1 in.	3/8 in.		No. 10	30	60	200	

L-08199	Lab ID. #:	23849
Laboratory Testing	Sample:	Ith-6
Ithaca Project	Depth (feet):	60-100
○ Sieve Analysis ASTM D422 & D1140		
⊙ Hydrometer Analysis ASTM D422		

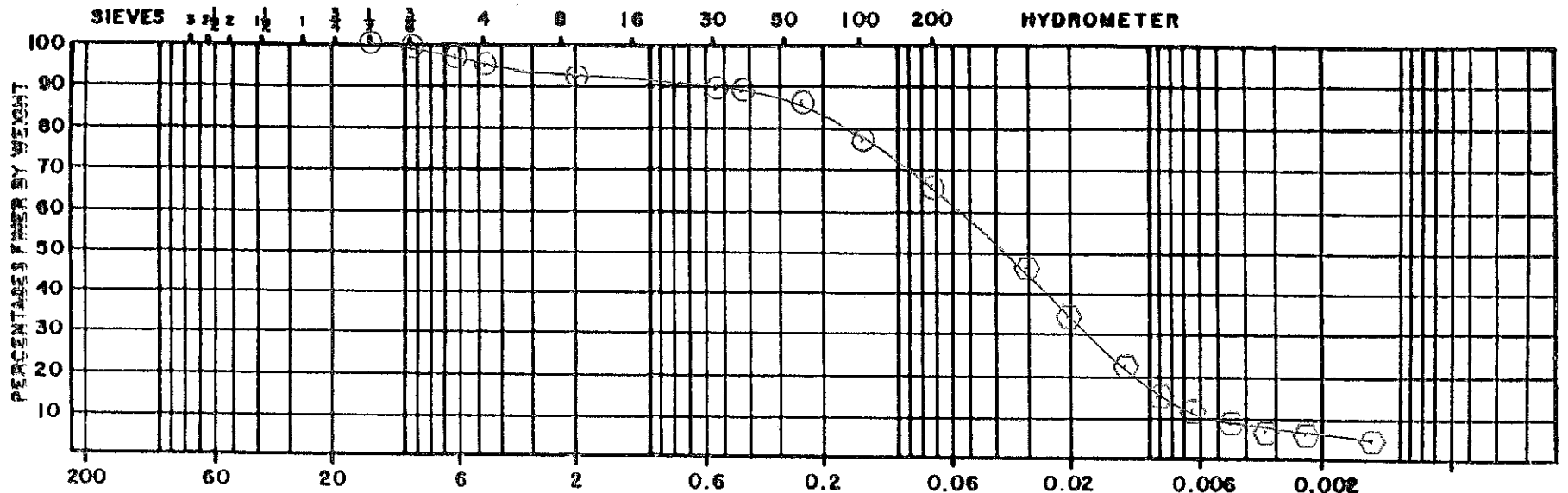
GRAIN SIZE ANALYSIS



BOULDERS COBBLES		GRAVEL			SAND			SILT-CLAY SOIL	
C		C	M	F	C	M	F	MM.	OPENING
	76.2	25.4	9.52		2.0	0.59	0.25	0.074	
Ø In.	3 in.	1 in.	3/8 in.		Nos. 10	30	60	200	SIEVE

L-08199	Lab I.D. #:	23850
Laboratory Testing	Sample:	Ith-6
Ithaca Project	Depth (feet):	10.0-14.0
○ Sieve Analysis ASTM D422 & D1140		
⬡ Hydrometer Analysis ASTM D422		

GRAIN SIZE ANALYSIS



BOULDERS COBBLES		GRAVEL			SAND			SILT-CLAY SOIL	
		C	M	F	C	M	F		
228	76.2	25.4	9.52	2.0	0.59	0.25	0.074	MM.	
9 in.	3 in.	1 in.	3/8 in.	No. 10	30	60	200	OPENING SIEVE	

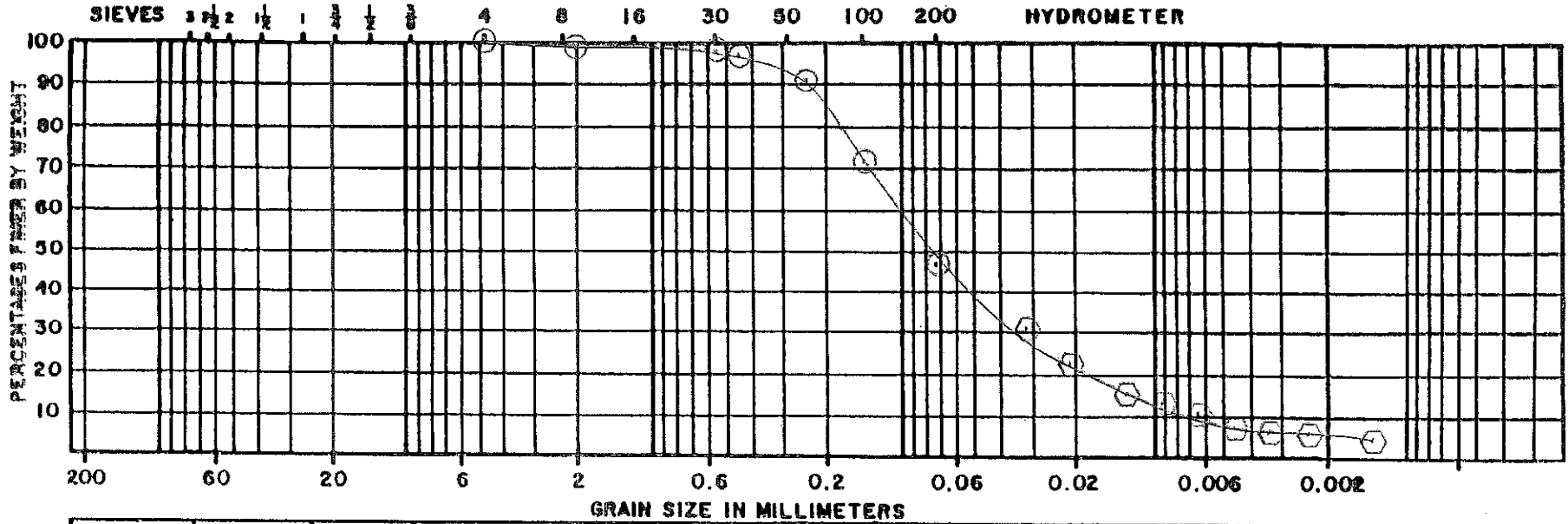
L-08199	Lab I.D. #: 23852
Laboratory Testing	Sample: Ith-8
Ithaca Project	Depth (feet): 10.0-14.0
<input type="checkbox"/> Sieve Analysis ASTM D422 & D1140 <input checked="" type="checkbox"/> Hydrometer Analysis ASTM D422	



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Job No.: L-08199
 Report No.: 9
 Date: December 9, 2008

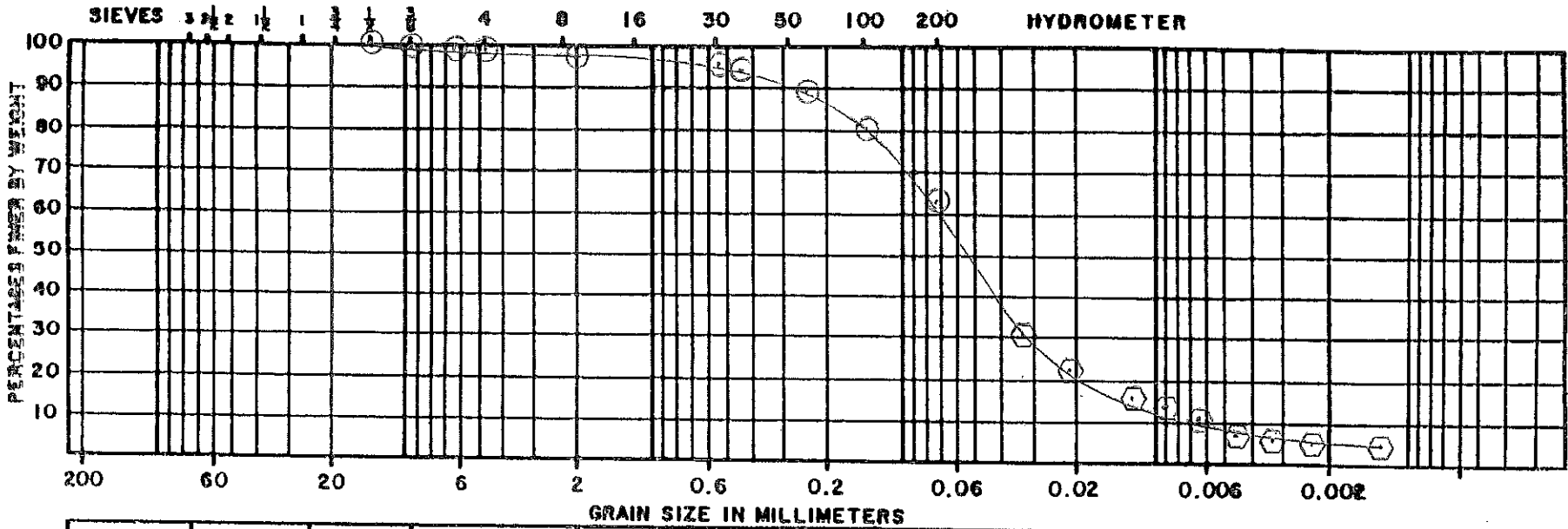
GRAIN SIZE ANALYSIS



BOULDERS COBBLES		GRAVEL			SAND			SILT-CLAY SOIL	
	C	M	F	C	M	F	0.075	MM.	OPENING
228	76.2	25.4	9.52	2.0	0.59	0.25	0.074	MM.	OPENING
9 in.	3 in.	1 in.	3/8 in.	Nos. 10	30	60	200		SIEVE

L-08199	Lab I.D. #:	23853
Laboratory Testing	Sample:	Ith-7
Ithaca Project	Depth (feet):	7.0-14.0
⊙ Sieve Analysis ASTM D422 & D1140		
⊖ Hydrometer Analysis ASTM D422		

GRAIN SIZE ANALYSIS



BOULDERS COBBLES		GRAVEL			SAND				SILT-CLAY SOIL	
C		M		F	C	M	F	OPENING		
228	76.2	25.4	9.52	2.0	0.59	0.25	0.074	MM.	SIEVE	
8 in.	3 in.	1 in.	3/8 in.	No. 10	30	60	200			

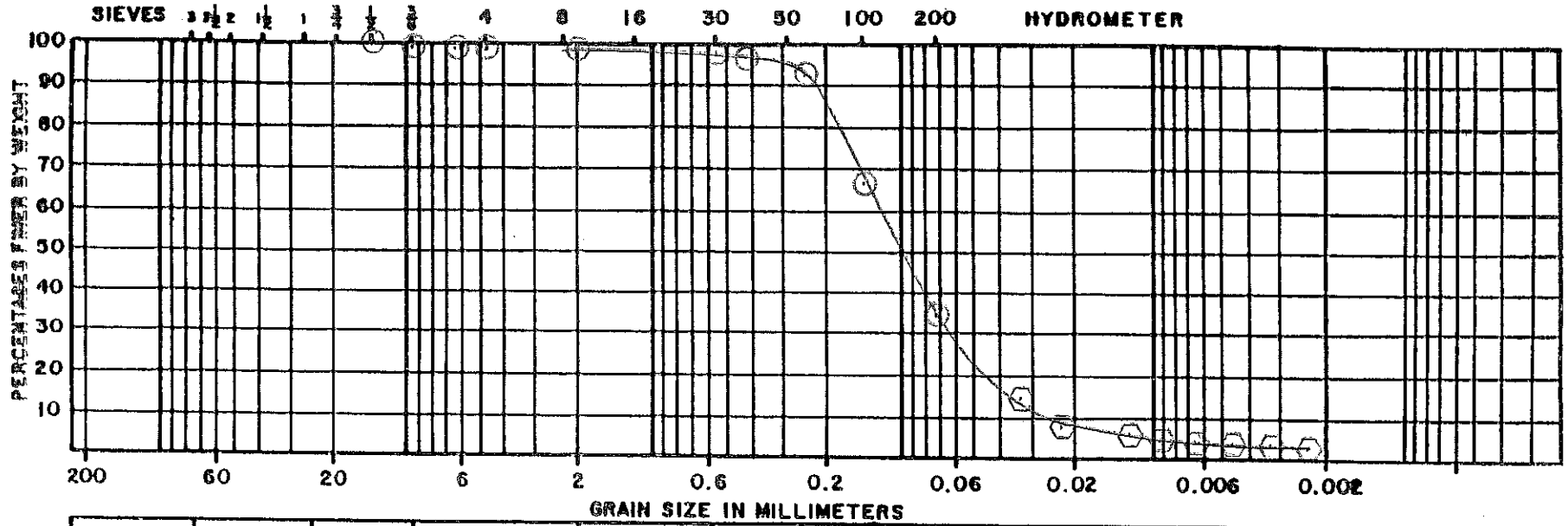
L-08199	Lab ID. #:	23854
Laboratory Testing	Sample:	Ith-5
Ithaca Project	Depth (feet):	4.0-10.0



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Job No.: L-08199
Report No.: 11
Date: December 9, 2008

GRAIN SIZE ANALYSIS



BOULDERS COBBLES		GRAVEL			SAND				SILT-CLAY SOIL	
	C	M	F	C	M	F				
228	76.2	25.4	9.52	2.0	0.59	0.25	0.074	MM.	OPENING	
9 In.	3 In.	1 In.	3/8 In.	No. 10	30	60	200		SIEVE	

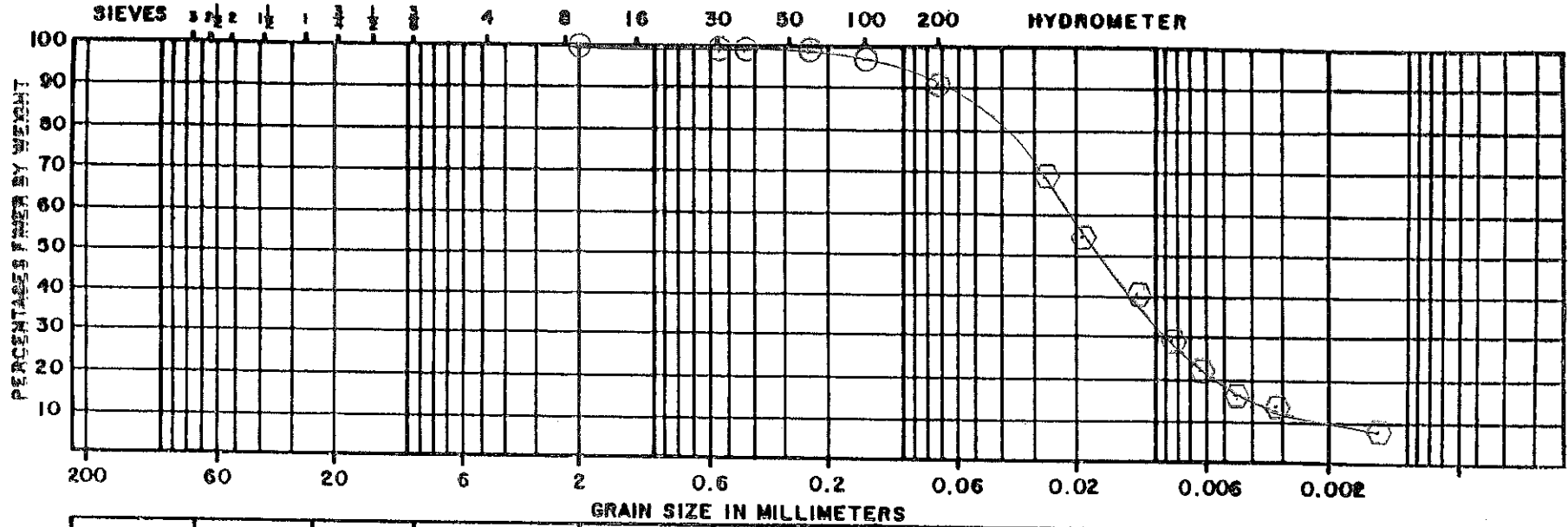
L-08199	Lab ID. #:	23855
Laboratory Testing	Sample:	Ith-5
Ithaca Project	Depth (feet):	10.0-14.0
○ Sieve Analysis ASTM D422 & D1140		
◇ Hydrometer Analysis ASTM D422		



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Job No.: L-08199
 Report No.: 12
 Date: December 9, 2008

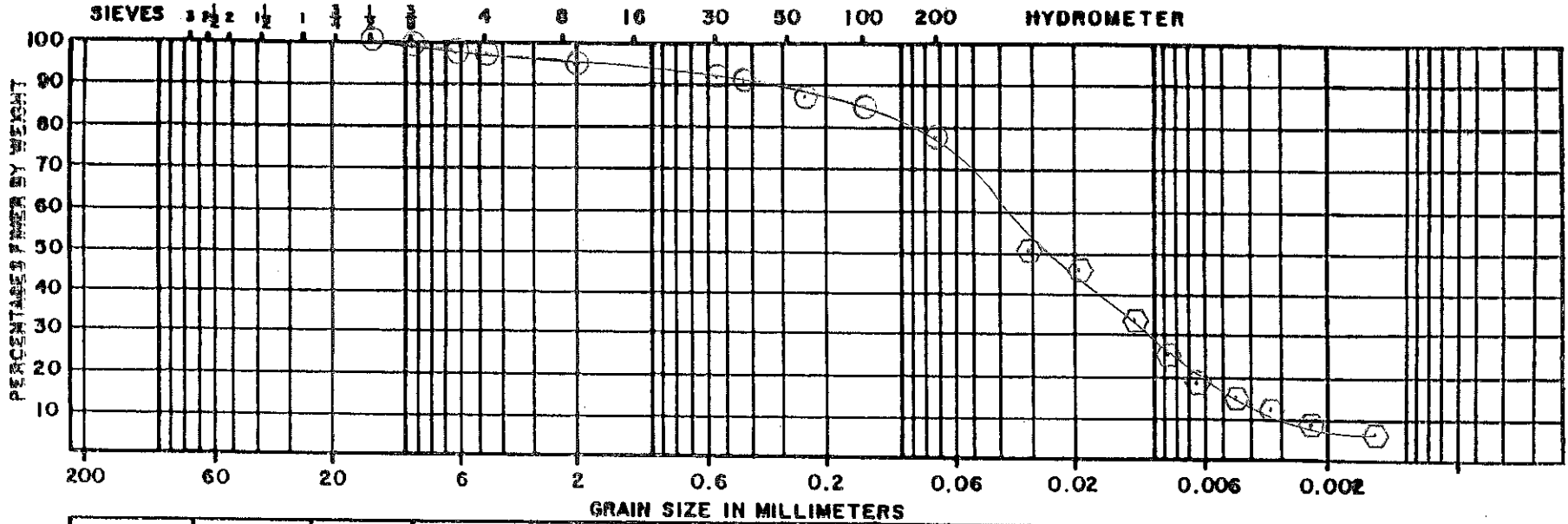
GRAIN SIZE ANALYSIS



BOULDERS COBBLES		GRAVEL			SAND			SILT-CLAY SOIL	
C	M	F	C	M	F	OPENING		SIEVE	
228	76.2	25.4	9.52	2.0	0.59	0.25	0.074 mm.		
9 in.	3 in.	1 in.	3/8 in.	No. 10	30	60	200		

L-08199	Lab I.D. #:	23856
Laboratory Testing	Sample:	Ith-1
Ithaca Project	Depth (feet):	6.0-12.0
⊙ Sieve Analysis ASTM D422 & D1140		
⊠ Hydrometer Analysis ASTM D422		

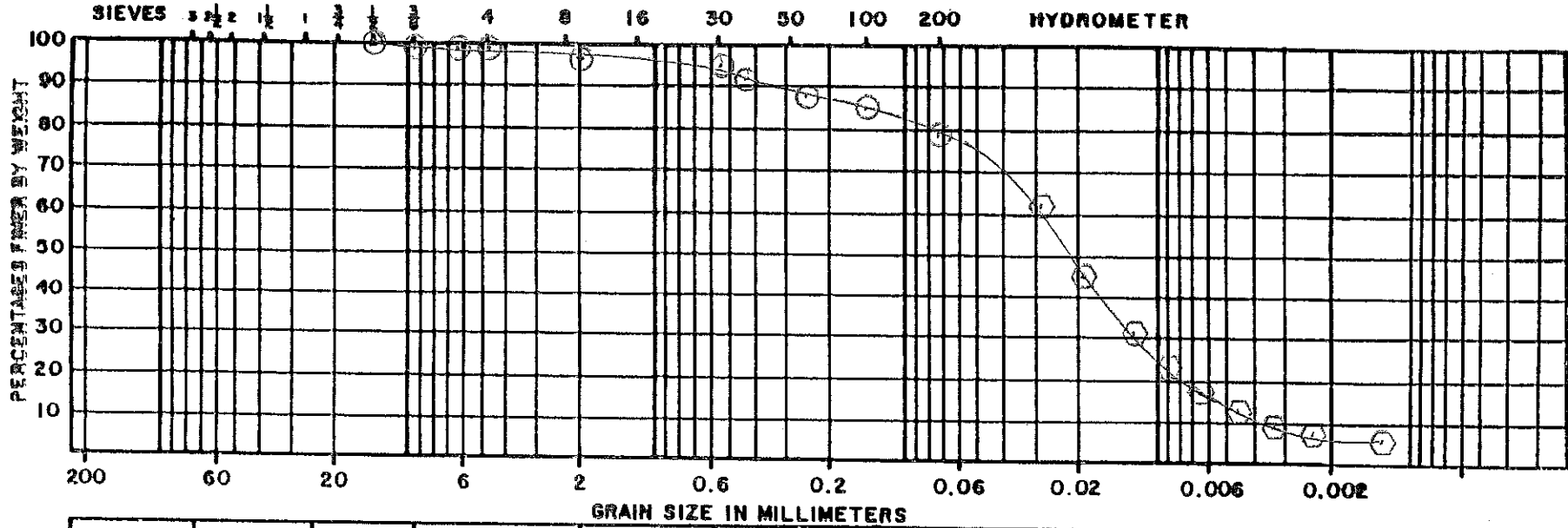
GRAIN SIZE ANALYSIS



BOULDERS COBBLES		GRAVEL			SAND			SILT-CLAY SOIL	
C	M	F	C	M	F	0.074 MM.	OPENING SIEVE		
228	76.2	25.4	9.52	2.0	0.59	0.25	0.074	MM.	
9 in.	3 in.	1 in.	3/8 in.	Nos. 10	30	60	200	SIEVE	

L-08199	Lab I.D. #:	23857
Laboratory Testing	Sample:	Ith-9
Ithaca Project	Depth (feet):	1.0-14.0
○ Sieve Analysis ASTM D422 & D1140		
◇ Hydrometer Analysis ASTM D422		

GRAIN SIZE ANALYSIS



BOULDERS COBBLES	GRAVEL			SAND	SILT-CLAY SOIL		
	C	M	F		C	M	F
228	76.2	25.4	9.52	2.0	0.59	0.25	0.074 MM.
9 in.	3 in.	1 in.	3/8 in.	No. 10	30	60	200
							OPENING SIEVE

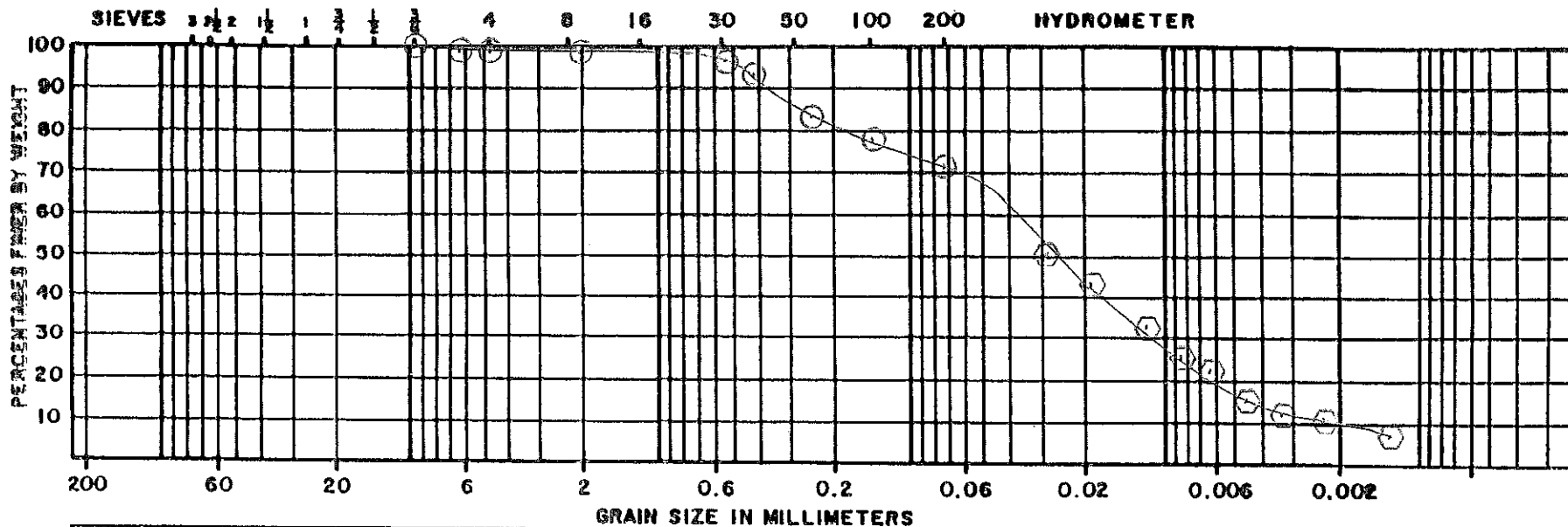
L-08199	Lab I.D. #:	23858
Laboratory Testing	Sample:	Ith-10
Ithaca Project	Depth (feet):	1.0-14.0
⊙ Sieve Analysis ASTM D422 & D1140		
⊞ Hydrometer Analysis ASTM D422		



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Job No: L-08199
 Report No: 15
 Date: December 9, 2008

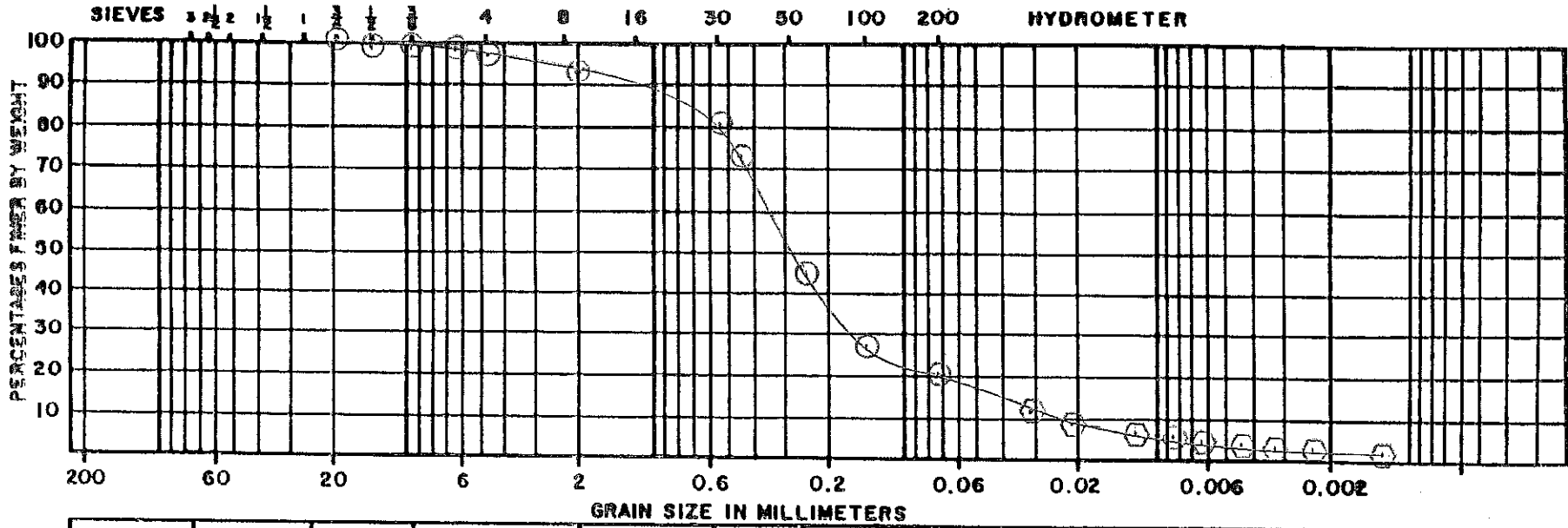
GRAIN SIZE ANALYSIS



BOULDERS COBBLES	GRAVEL			SAND	SILT - CLAY SOIL		
	C	M	F		C	M	F
228	76.2	25.4	9.52	2.0	0.59	0.25	0.074
9 in.	3 in.	1 in.	3/8 in.	No. 10	30	60	200
							MM. OPENING SIEVE

L-08199	Lab I.D. #:	23859
Laboratory Testing	Sample:	Ith-11
Ithaca Project	Depth (feet):	1.0-14.0
○ Sieve Analysis ASTM D422 & D1140		
⊙ Hydrometer Analysis ASTM D422		

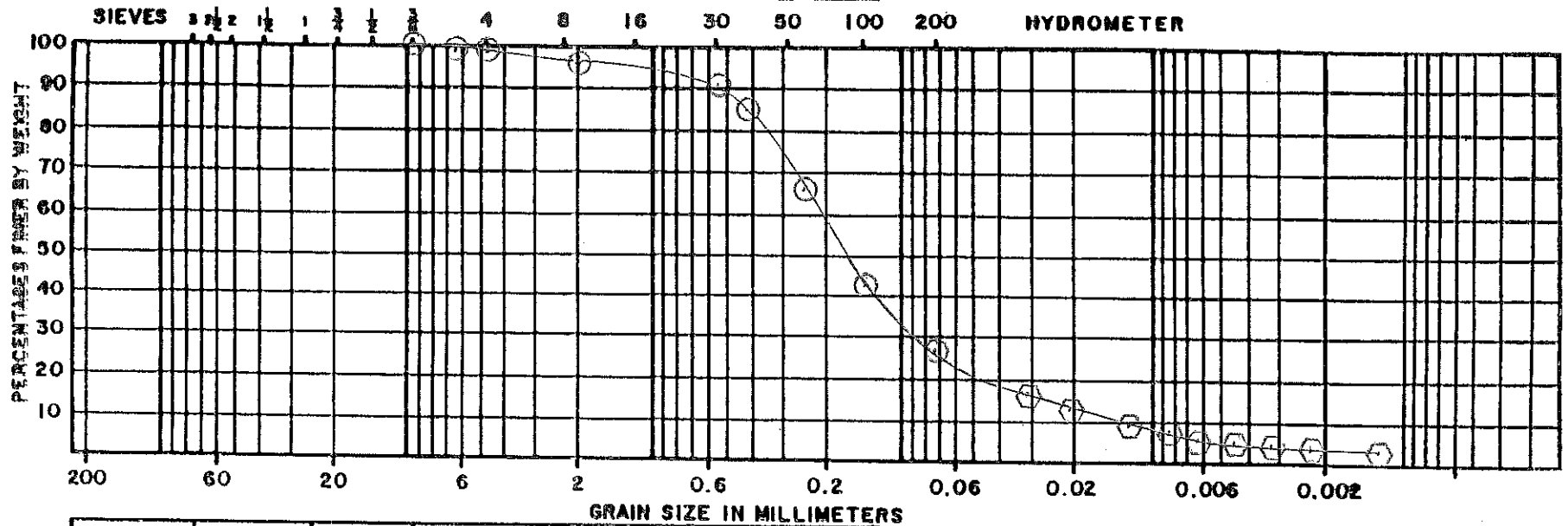
GRAIN SIZE ANALYSIS



BOULDERS COBBLES		GRAVEL			SAND				SILT - CLAY SOIL	
	C	M	F	C	M	F				OPENING
228	76.2	25.4	9.52	2.0	0.59	0.25	0.074	MM.		
9 in.	3 in.	1 in.	3/8 in.	No. 10	30	60	200			SIEVE

L-08199	Lab I.D. #:	23860
Laboratory Testing	Sample:	Ith-12
Ithaca Project	Depth (feet):	1.0-14.0
⊗ Sieve Analysis ASTM D422 & D1140		
⊠ Hydrometer Analysis ASTM D422		

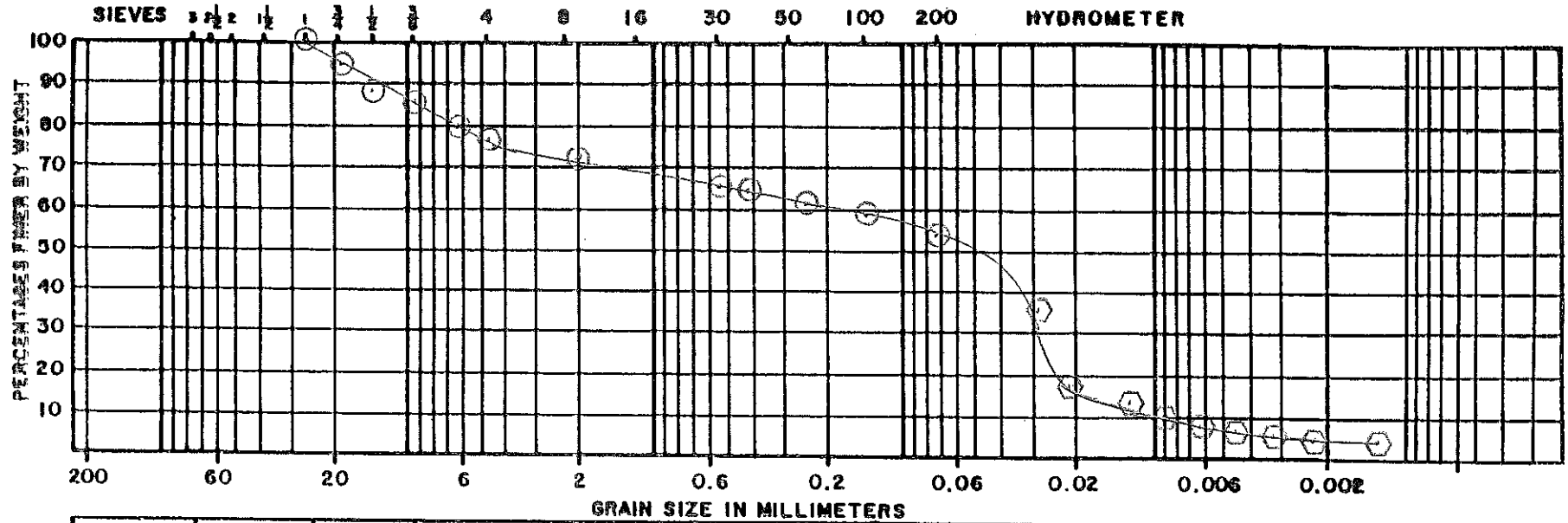
GRAIN SIZE ANALYSIS



BOULDERS COBBLES	GRAVEL			SAND	SILT-CLAY SOIL		
	C	M	F		C	M	F
228	76.2	25.4	9.52	2.0	0.59	0.25	0.074
9 in.	3 in.	1 in.	3/8 in.	No. 10	30	60	200
					MM. OPENING SIEVE		

L-08199	Lab I.D. #:	23861
Laboratory Testing	Sample:	Ith-16
Ithaca Project	Depth (feet):	1.0-14.0
☉ Sieve Analysis ASTM D422 & D1140		
☉ Hydrometer Analysis ASTM D422		

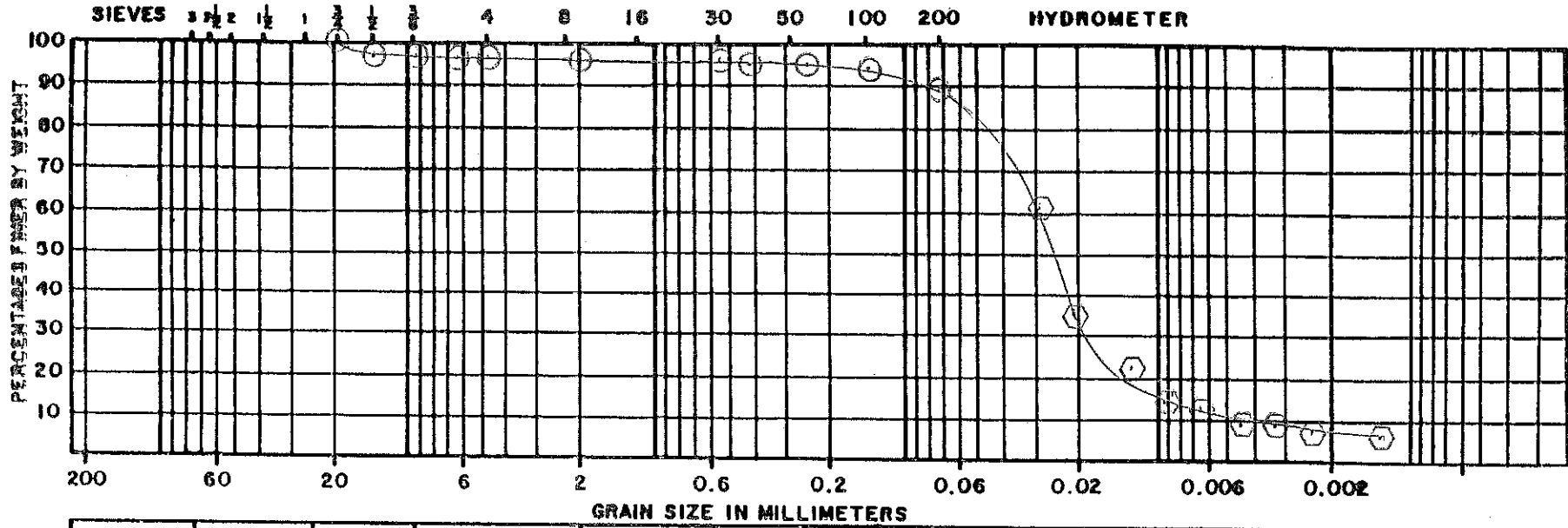
GRAIN SIZE ANALYSIS



BOULDERS COBBLES		GRAVEL			SAND			SILT - CLAY SOIL	
	C	M	F	C	M	F	0.074 MM.	OPENING	SIEVE
228	76.2	25.4	9.52	2.0	0.59	0.25	0.074	MM.	
8 in.	3 in.	1 in.	3/8 in.	Non. 10	30	60	200		SIEVE

L-08199	Lab I.D. #:	23862
Laboratory Testing	Sample:	Ith-14
Ithaca Project	Depth (feet):	1.0-14.0
○ Sieve Analysis ASTM D422 & D1140		
◡ Hydrometer Analysis ASTM D422		

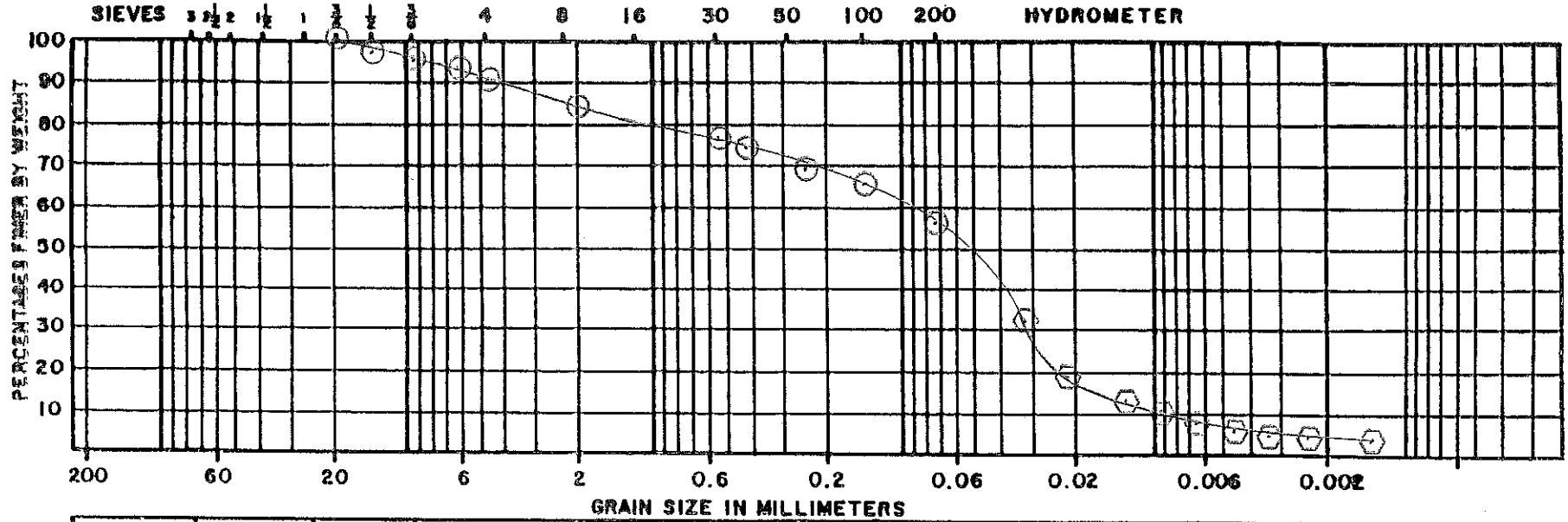
GRAIN SIZE ANALYSIS



BOULDERS COBBLES		GRAVEL			SAND			SILT-CLAY SOIL	
C	M	F	C	M	F	0.074 MM.		OPENING	
228	76.2	25.4	9.52	2.0	0.59	0.25	200		
9 in.	3 in.	1 in.	3/8 in.	Nos. 10	30	60	SIEVE		

L-08199	Lab I.D. #:	23863
Laboratory Testing	Sample:	Ith-13
Ithaca Project	Depth (feet):	1.0-14.0
⊙ Sieve Analysis ASTM D422 & D1140		
⊞ Hydrometer Analysis ASTM D422		

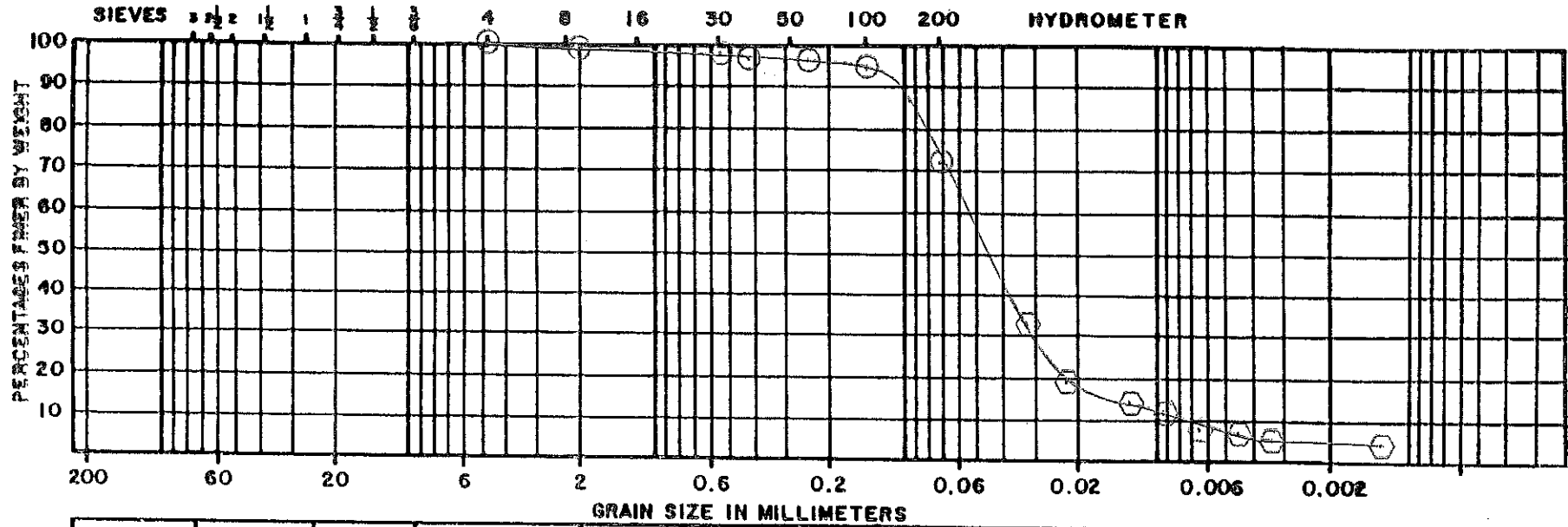
GRAIN SIZE ANALYSIS



BOULDERS COBBLES	GRAVEL			SAND	SILT - CLAY SOIL
	C	M	F		
228 ø in.	76.2 3 in.	25.4 1 in.	9.52 3/8 in.	2.0 Nos. 10	0.074 MM. 200 OPENING SIEVE

L-08199	Lab I.D. #:	23864
Laboratory Testing	Sample:	Ith-13
Ithaca Project	Depth (feet):	1.0-10.0
○ Sieve Analysis ASTM D422 & D1140		
⊖ Hydrometer Analysis ASTM D422		

GRAIN SIZE ANALYSIS



BOULDERS COBBLES		GRAVEL			SAND			SILT-CLAY SOIL	
	C	M	F	C	M	F	MM. OPENING SIEVE		
228	76.2	25.4	9.52	2.0	0.59	0.25	0.074		
9 in.	3 in.	1 in.	3/8 in.	No. 10	30	60	200		

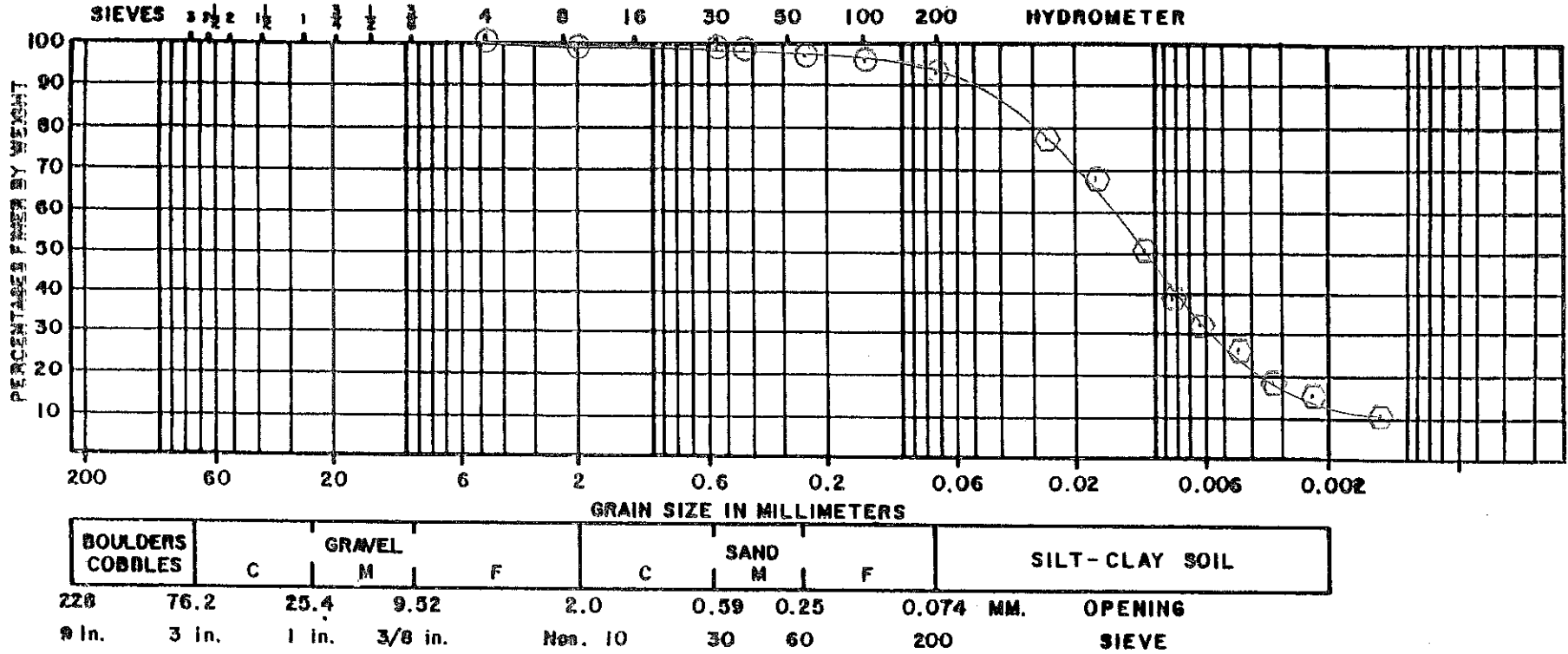
L-08199	Lab ID. #: 23865
Laboratory Testing	Sample: #1
Ithaca Project	Depth (feet): Surface
⊙ Sieve Analysis ASTM D422 & D1140	
⊚ Hydrometer Analysis ASTM D422	



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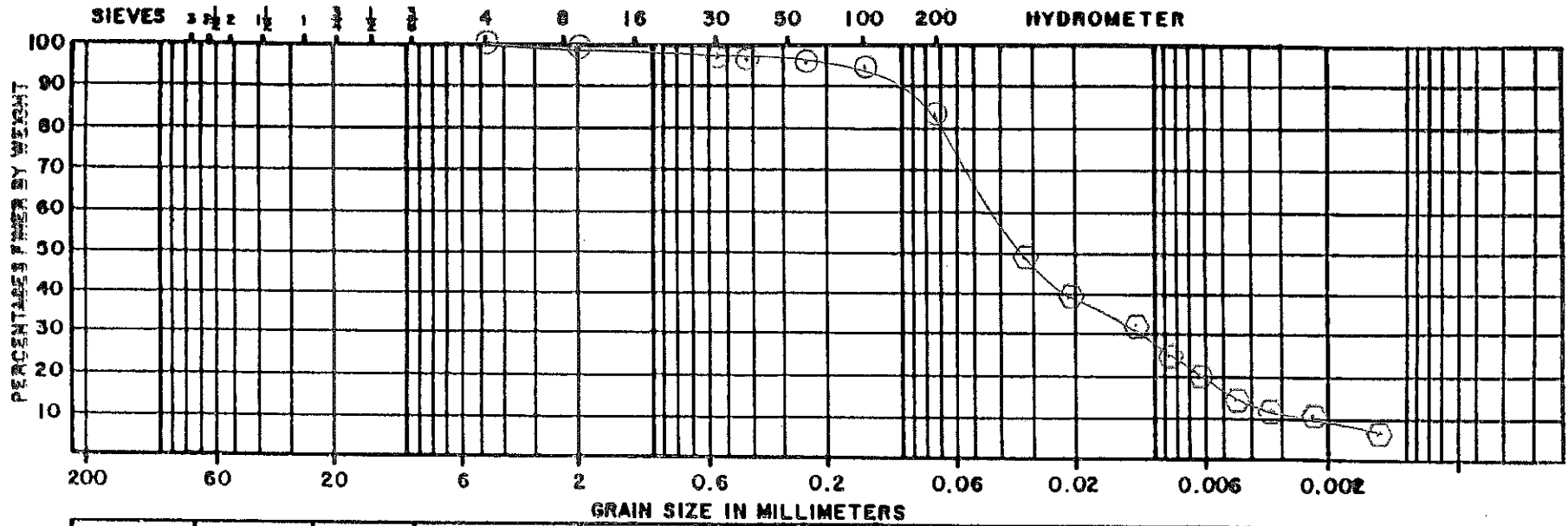
Job No.: L-08199
 Report No.: 22
 Date: December 9, 2008

GRAIN SIZE ANALYSIS



L-08199	Lab ID. #:	23866
Laboratory Testing	Sample:	#2
Ithaca Project	Depth (feet):	Surface
○ Sieve Analysis ASTM D422 & D1140		
◡ Hydrometer Analysis ASTM D422		

GRAIN SIZE ANALYSIS



BOULDERS COBBLES	GRAVEL			SAND					SILT-CLAY SOIL	
	C	M	F	C	M	F				
228	76.2	25.4	9.52	2.0	0.59	0.25	0.074	MM.	OPENING	
8 in.	3 in.	1 in.	3/8 in.	No. 10	30	60	200		SIEVE	

L-08199	Lab I.D. #:	23867
Laboratory Testing	Sample:	#3
Ithaca Project	Depth (feet):	Surface
⊙ Sieve Analysis ASTM D422 & D1140		
⊙ Hydrometer Analysis ASTM D422		



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December 9, 2008

L-08199
 Laboratory Testing
 Ithaca Project

ATTERBERG LIMITS
ASTM D4318

Lab I.D. #	Sample #	Depth (feet)	Plastic Limit	Liquid Limit	Plasticity Index
23845	Ith-3	6.0-12.0	Non-Plastic	--	--
23846	Ith-4	6.0-12.0	Non-Plastic	--	--
23847	Ith-2	6.0-10.0	28	34	6
23848	Ith-2	10.0-14.0	28	33	5
23849	Ith-6	6.0-10.0	Non-Plastic	--	--
23850	Ith-6	10.0-14.0	Non-Plastic	--	--
23851	Ith-8	2.0-10.0	Non-Plastic	--	--
23852	Ith-8	10.0-14.0	Non-Plastic	--	--
23853	Ith-7	7.0-14.0	Non-Plastic	--	--
23854	Ith-5	4.0-10.0	Non-Plastic	--	--
23855	Ith-5	10.0-14.0	Non-Plastic	--	--
23856	Ith-1	6.0-12.0	28	35	7
23857	Ith-9	1.0-14.0	35	40	5
23858	Ith-10	1.0-14.0	34	38	4
23859	Ith-11	1.0-14.0	31	35	4
23860	Ith-12	1.0-14.0	Non-Plastic	--	--
23861	Ith-16	1.0-14.0	Non-Plastic	--	--
23862	Ith-14	1.0-14.0	Non-Plastic	--	--
23863	Ith-13	1.0-14.0	Non-Plastic	--	--
23864	Ith-13	1.0-10.0	Non-Plastic	--	--
23865	Sample #1	Surface	Non-Plastic	--	--
23866	Sample #2	Surface	30	39	9
23867	Sample #3	Surface	30	35	5
23868	Sample #4	Surface	Non-Plastic	--	--
23869	Sample #6	Surface	Non-Plastic	--	--



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December 9, 2008

L-08199
 Laboratory Testing
 Ithaca Project

SPECIFIC GRAVITY OF SOILS
 ASTM D854

Lab ID#	Sample	Depth (feet)	(D854) Minus No. 4 Fraction Specific Gravity of Solids(G)
23845	Ith-3	6.0-12.0	2.65
23846	Ith-4	6.0-12.0	2.60
23847	Ith-2	6.0-10.0	2.62
23848	Ith-2	10.0-14.0	2.58
23849	Ith-6	6.0-10.0	2.62
23850	Ith-6	10.0-14.0	2.64
23851	Ith-8	2.0-10.0	2.62
23852	Ith-8	10.0-14.0	2.67
23853	Ith-7	7.0-14.0	2.55
23854	Ith-5	4.0-10.0	2.68
23855	Ith-5	10.0-14.0	2.67
23856	Ith-1	6.0-12.0	2.65
23857	Ith-9	1.0-14.0	2.58
23858	Ith-10	1.0-14.0	2.64
23859	Ith-11	1.0-14.0	2.66
23860	Ith-12	1.0-14.0	2.64
23861	Ith-16	1.0-14.0	2.69
23862	Ith-14	1.0-14.0	2.70
23863	Ith-13	1.0-14.0	2.64
23864	Ith-13	1.0-10.0	2.62
23865	Sample #1	Surface	2.66
23866	Sample #2	Surface	2.64
23867	Sample #3	Surface	2.64
23868	Sample #4	Surface	2.60
23869	Sample #6	Surface	2.66