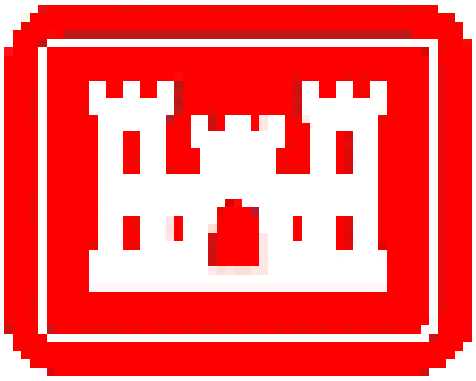
GROUNDWATER SAMPLING REPORT
FOR
IRRIGATION SYSTEM AT GUILDERLAND CENTRAL SCHOOL
FORMER SCHENECTADY ARMY DEPOT - VOORHEESVILLE AREA
GUILDERLAND, NEW YORK

Prepared For:



U.S. ARMY CORPS OF ENGINEERS
Contract No. W912DY-08-D-0003

Task Order No. 0007

Prepared By:

PARSONS

June 2010

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1.0 INTRODUCTION

This Groundwater Sampling Report has been prepared by Parsons for the U.S. Army Corps of Engineers (USACE) – New York District in compliance with the Contract No. W912DY-08-D-0003, Task Order No. 0007 with the USACE – Huntsville Center.

The purpose of this sampling effort is to monitor groundwater quality in the irrigation system at the Guilderland Junior/Senior High School. This sampling supplements the ongoing groundwater monitoring program at Area of Concern 3 (Former Burn Pits) at the Former Schenectady Army Depot – Voorheesville Area (SADVA).

This report presents the results of irrigation system sample IRR-01 conducted in April 2010.

2.0 SITE HISTORY AND BACKGROUND

AOC 3 is the designation given to a former burn pit area that was used for burning of wastes during Department of Defense operation of the SADVA. Department of Defense operation of SADVA began in 1941 and continued for a period of 28 years. The burn pit area was used to burn a multitude of depot waste materials in several small depressions. AOC 3 was less than 10 acres in size, and was located in the north end of the SADVA. SADVA was closed in 1969 and the property was subsequently sold. Since that time, the property has been used as an industrial park, and is now known as the Northeastern Industrial Park. In addition, the nearby Guilderland Central School District utilizes groundwater in the vicinity of AOC 3 for irrigation and lawn sprinkling purposes at the Junior/Senior High School athletic fields.

From the Fall of 2002 to the Spring of 2003, an interim removal action was completed within AOC 3. This removal action, performed by The Shaw Group, Inc. under USACE direction, consisted of the excavation and disposal of waste materials and impacted soils followed by restoration to grade. The removal action resulted in the excavation and off-site disposal of approximately 4,000 cubic yards of waste and impacted soils. As part of the investigations leading up to and during the interim removal action, several wells were installed within and around the AOC 3 area. These wells were utilized following completion of the excavation activities to monitor groundwater quality and site impacts.

In 2006, USACE agreed to conduct a single-well groundwater monitoring program to develop a data set for groundwater quality in the vicinity of a bus repair garage located within the Guilderland High School grounds. This well, MW-9 (Figure 1) was found to be impacted by volatile organic compounds during the previously completed AOC 3 groundwater monitoring program and is being monitored for five annual events to determine any applicable course of action.

The first of the five scheduled events was completed in June 2007, and the concentration of trichloroethene was 5.4 micrograms per liter (ug/l), slightly above the New York State Class GA groundwater standard of 5 ug/l. No other volatile organic compounds were detected in 2007.

Results for the June 2008 event can be summarized as follows:

- Trichloroethylene was detected at 5.5 ug/l, slightly above the New York State Class GA standard of 5 ug/l, and slightly above the 2007 concentration of 5.4 ug/l.

- cis-1,2-Dichloroethene was the only other volatile organic compound detected, at a concentration of 1.1 ug/l, well below the New York State Class GA standard of 5 ug/l. cis-1,2-Dichloroethene is a breakdown product of trichloroethene.

Results for the June 2009 event can be summarized as follows:

- Trichloroethylene was detected at 5.4 ug/l, slightly above the New York State Class GA standard of 5 ug/l, and slightly below the 2008 concentration of 5.5 ug/l and the same as the 2007 concentration of 5.4 ug/l.
- cis-1,2-Dichloroethene was the only other volatile organic compound detected, at a concentration of 1.0 ug/l, well below the New York State Class GA standard of 5 ug/l. cis-1,2-Dichloroethene is a breakdown product of trichloroethene. The 2008 concentration of cis-1,2-dichloroethene was 1.1 ug/l. It was not detected in 2007.

Results for the April 2010 event can be summarized as follows:

- Trichloroethylene was detected at 6.9 ug/l, slightly above the New York State Class GA standard of 5 ug/l.
- cis-1,2-Dichloroethene was the only other volatile organic compound detected, at a concentration of 1.2 ug/l, well below the New York State Class GA standard of 5 ug/l.

To assess the presence of VOCs in the irrigation system at the Guilderland Central School, USACE requested that Parsons sample the irrigation groundwater supply.

3.0 SAMPLING AND ANALYTICAL METHODOLOGY

The school irrigation system is supplied by groundwater from 5 wells; four (wells #2 - #5) are located on the north side of Black Creek (Figure 1) and another well (well #1) is located in the old bus garage. These wells are tied together by a water distribution system that carries water from the wells to a combined intake. That intake allows water to be pumped into a holding tank. Water in the holding tank is pumped out and onto the athletic fields as needed. A groundwater sample was collected from a spigot valve in the distribution system, just before the pipe enters the holding tank.

- Prior to sample collection, the wells 1, 3 and 5 were pumped for approximately one hour to purge the distribution system and to ensure fresh groundwater was collected.
- After the sample bottle was filled from the spigot valve, the sample was packaged, shipped overnight and delivered under Chain of Custody for analysis to a subcontract laboratory for volatile organic compounds, PCBs, total lead, pH, color, total coliforms, odor, turbidity, and total dissolved solids. These are the same analytical parameters as used for the ongoing sampling at AOC, plus PCBs and lead, which were contaminants of concern prior to the remediation at AOC 3.
- The samples were analyzed by Life Science Laboratories, Inc. in East Syracuse, NY. Life Sciences has certification under the Environmental Laboratory Approval Program by the State of New York Department of Health to perform the requested analyses.

A data usability report is provided in Appendix A, and the Life Science Laboratory report is provided in Appendix B.

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4.0 RESULTS

4.1 Groundwater Quality

Results for the April 2010 sampling were validated by a Parsons chemist and found to be valid for their intended use (Appendix A). Results for pH, total dissolved solids, color, turbidity and odor were within the applicable New York State Class GA quality criteria, as follows:

- pH was 6.8; Class GA criterion is 6.0 to 8.0.
- Color was not detected (< 5 units); there is no Class GA criterion.
- Total dissolved solids were 380 milligrams per liter (mg/l); Class GA criterion is 1000 mg/l.
- Odor was < 1.0 units; Class GA criterion is 3 units.
- Turbidity was 6.9 nephelometric units; the Class GA criterion is 5 units.
- Total coliforms were not present in the sample.

4.2 Chemical Constituent Concentrations

The IRR-01 sample was analyzed for volatile organic compounds, PCBs and total lead. Results for the April 2010 event can be summarized as follows:

- Trichloroethylene was detected at 1.8 ug/l, below the New York State Class GA standard of 5 ug/l, and below the concentrations found in MW-9 (the 2010 concentration was 6.9 ug/l, the 2009 concentration was 5.4 ug/l, the 2008 concentration was 5.5 ug/l, and the same as the 2007 concentration was 5.4 ug/l).
- PCBs were not detected.
- Lead was not detected.

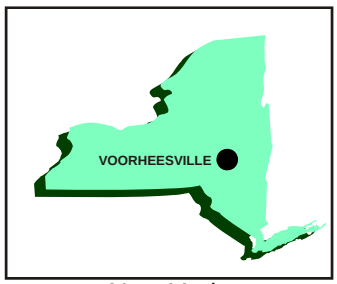
4.3 Quality Control Results

Field Quality Control consisted of the submittal of a Trip Blank, which had no volatile organic compounds detected. The laboratory report, attached as Appendix B, was reviewed for data usability and the sample results meet all applicable criteria with regards to data quality necessary for project usability. The data usability report can be found in Appendix A. The results were found to be valid for their intended use.

5.0 CONCLUSIONS

- The concentration of trichloroethene is below the New York State Class GA standard.
- PCBs and lead were not detected.

FIGURE



New York
Quadrangle

N

LATITUDE: N42° 15' 20"
LONGITUDE: W75° 14' 38"

2000 1000 0

Approximate Scale in Feet

FIGURE 1

SADVA
GUILDERLAND, NEW YORK

LOCATION OF GUILDERLAND SCHOOL IRRIGATION WELLS AND MONITORING WELL MW-9

PARSONS
290 ELWOOD DAVIS ROAD, SUITE 312, LIVERPOOL, NY 13088 PHONE: (315) 451-9560

P:\743440\GRAPHICS\VOORHEESVILLE.PPT

APPENDIX A

Data Usability Report

DATA QUALITY REVIEW REPORT

Former Schenectady Army Depot AOC-3

Guilderland, New York

DATA QUALITY REVIEW AND ASSESSMENT

Data Quality Review Process

A Parsons Corporation project-specific data quality review was performed on 100% of the sample results and associated QA/QC data reported in the analytical report for Life Sciences Laboratory Project IDs 1006451 and 1006452, Parsons Project ID SADVA-Schenectady Depot. The data review results in this report are for one water sample and one trip blank collected from the Guilderland Central School irrigation well system by Parsons personnel. The samples were analyzed for the parameters listed in the Sample Summary Table. The data review pertained to the Method EPA 524.2 volatile organic compounds (VOCs), Method EPA 8082 polychlorinated biphenyls (PCBs), Method EPA 200.8 lead, and Method SM2540C total dissolved solids (TDS). The laboratory met all turnaround commitments; to meet the quick-turnaround requirement for VOCs, the laboratory issued report 1006451 on May 05, and issued the final (revised) report for all other sample results on May 21, 2010.

Sample Summary Table

Parsons Sample ID	Laboratory Sample ID	Sample Collection Date	Sample Matrix	Analyses Performed (as listed on Chain of Custody record)
IRR-01	1006451-001	04/27/2010	Water	VOCs (EPA 524.2)
IRR-01	1006452-002	04/27/2010	Water	PCBs (EPA 8082), TDS (SM18-2540C), Turbidity (EPA 180.1), Color (110.2) Odor (EPA 140.1), pH (SM21 4500-H B), Total Coliform
IRR-01	K1004348-001A	04/27/2010	Water	Lead (EPA 200.8)
Trip Blank TB-1	1006452-004	04/27/2010	Water	VOCs (EPA 524.2)

All of the samples were properly preserved and analyzed within the holding time. The sample coolers were received with temperature of 3.6°C, which is within the acceptance range of 2-6 degrees Celsius. Chain-of-custody documentation was accurate and complete.

The data quality review consisted of manually examining the analytical data report to compare the laboratory QC sample results with the established laboratory QC limits, and with established USEPA sample preservation and analytical holding time requirements, in order to evaluate impacts, if any, on data quality and usability of the reported sample results. The data quality review addressed analytical data associated with the following: sample preservation and shipping cooler temperatures, analytical holding times, method blanks, trip blanks, surrogate spike recoveries, and laboratory control sample results.

The following sections describe the overall QA/QC indicators.

Volatile Organics in Water by EPA Method 524.2

Sample IRR-01 was analyzed on 04/30/2010, which is within the holding time. Evaluation results for specific QC samples results are as follows:

- Laboratory method blank: The method blank contained no reported analytes at concentrations above the reporting limit.
- Laboratory control sample (spike) (LCS): The LCS recoveries for all analytes were within project criteria.
- Surrogate compounds: All surrogate recoveries were within acceptance limits for samples and QC samples.
- Field QC: No VOCs were reported as detected in the trip blank.

PCBs in Water by EPA Method 8082

Sample IRR-01 was extracted on 05/03/10 and analyzed on 05/20/2010, which is within the holding time.

Evaluation results for specific QC samples results are as follows:

- Laboratory method blank: The method blank contained no reported analytes at concentrations above the method detection limit (MDL).
- Laboratory control sample (spike) (LCS): The LCS recoveries for all analytes were within project criteria.
- Surrogate compounds: All surrogate recoveries were within acceptance limits for samples and QC samples.

Lead in Water by EPA Method 200.8

Sample IRR-01 was digested on 04/29/10 and analyzed on 05/03/2010, which is within the holding time.

Evaluation results for specific QC samples results are as follows:

- Laboratory method blank: The method blank contained no lead at a concentration above the practical quantitation limit.
- Laboratory control sample (spike) (LCS): The LCS recovery for lead was within project criteria.

TDS in Water by Method SM21-2540C

Sample IRR-01 was analyzed on 04/29/2010, which is within the holding time.

Evaluation results for specific QC samples results are as follows:

- Laboratory method blank: The method blank contained no TDS at a concentration above the reporting limit.

Other Analytical Parameters

The laboratory report included the analysis results for color by method SM18-20 2120B, pH by method SM18-20 4500-HB, method EPA 180.1 turbidity, odor by method SM18-20 2150B, and total coliform by Readycult Method. However, no QC data was associated with sample results and QC review could not be performed on these data.

Data Quality Summary

Based on evaluation of the results of the data quality review, the overall quality control data for methods EPA 524.2 VOCs, EPA 8082 PCBs, EPA 200.8 lead, and SM21-2540C TDS provided in the laboratory report is representative of adequate method accuracy and representativeness with regard to project objectives. The reported data should be utilized, without reservation, in the intended project decision-making process.

APPENDIX B

Laboratory Analytical Report

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Parsons
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Suite 350
Syracuse, NY 13212

Phone: (315) 451-9560
FAX: (315) 451-9570
Authorization: Proj. #743440.00011

REVISED
5/24/10

Laboratory Analysis Report

For

Parsons

Client Project ID:

SADVA - Schenectady Depot

LSL Project ID: **1006452**

Receive Date/Time: 04/28/10 9:54

Project Received by: GS

Life Science Laboratories, Inc.

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Fax (315) 445-1301
NYS DOH ELAP #10248
PA DEP #68-2556

LSL North Lab
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NYS DOH ELAP #10900

LSL Finger Lakes Lab
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Tel. (585) 728-3320
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NYS DOH ELAP #11667

LSL Southern Tier Lab
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NYS DOH ELAP #10760

LSL MidLakes Lab
699 South Main Street
Canandaigua, NY 14424
Tel. (585) 396-0270
Fax (585) 396-0377
NYS DOH ELAP #11369

This report was reviewed by: _____ *Date:* 5/24/10

Life Science Laboratories, Inc.

A copy of this report was sent to:

Date Printed: 5/24/10

- - LABORATORY ANALYSIS REPORT - -

Parsons Syracuse, NY

Sample ID: IRR-01 **LSL Sample ID:** 1006451-001

Location:

Sampled: 04/27/10 11:25 **Sampled By:** SBW

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 524.2 Volatile Organic Chemicals					
Benzene	<1	ug/l		4/30/10	BD
Bromobenzene	<1	ug/l		4/30/10	BD
Bromochloromethane	<1	ug/l		4/30/10	BD
Bromomethane	<1	ug/l		4/30/10	BD
sec-Butylbenzene	<1	ug/l		4/30/10	BD
n-Butylbenzene	<1	ug/l		4/30/10	BD
tert-Butylbenzene	<1	ug/l		4/30/10	BD
Carbon tetrachloride	<1	ug/l		4/30/10	BD
Chlorobenzene	<1	ug/l		4/30/10	BD
Chloroethane	<1	ug/l		4/30/10	BD
Chloromethane	<1	ug/l		4/30/10	BD
2-Chlorotoluene	<1	ug/l		4/30/10	BD
4-Chlorotoluene	<1	ug/l		4/30/10	BD
Dibromomethane	<1	ug/l		4/30/10	BD
1,2-Dichlorobenzene	<1	ug/l		4/30/10	BD
1,3-Dichlorobenzene	<1	ug/l		4/30/10	BD
1,4-Dichlorobenzene	<1	ug/l		4/30/10	BD
Dichlorodifluoromethane	<1	ug/l		4/30/10	BD
1,1-Dichloroethane	<1	ug/l		4/30/10	BD
1,2-Dichloroethane	<1	ug/l		4/30/10	BD
cis-1,2-Dichloroethene	<1	ug/l		4/30/10	BD
1,1-Dichloroethene	<1	ug/l		4/30/10	BD
trans-1,2-Dichloroethene	<1	ug/l		4/30/10	BD
1,2-Dichloropropane	<1	ug/l		4/30/10	BD
1,3-Dichloropropane	<1	ug/l		4/30/10	BD
2,2-Dichloropropane	<1	ug/l		4/30/10	BD
1,1-Dichloropropene	<1	ug/l		4/30/10	BD
cis-1,3-Dichloropropene	<1	ug/l		4/30/10	BD
trans-1,3-Dichloropropene	<1	ug/l		4/30/10	BD
Ethyl benzene	<1	ug/l		4/30/10	BD
Hexachlorobutadiene	<1	ug/l		4/30/10	BD
Isopropylbenzene (Cumene)	<1	ug/l		4/30/10	BD
4-Isopropyl toluene (Cymene)	<1	ug/l		4/30/10	BD
Methylene chloride	<2	ug/l		4/30/10	BD
Naphthalene	<1	ug/l		4/30/10	BD
n-Propylbenzene	<1	ug/l		4/30/10	BD
Styrene	<1	ug/l		4/30/10	BD
1,1,1,2-Tetrachloroethane	<1	ug/l		4/30/10	BD
1,1,2,2-Tetrachloroethane	<1	ug/l		4/30/10	BD
Tetrachloroethene	<1	ug/l		4/30/10	BD
Toluene	<1	ug/l		4/30/10	BD
1,2,3-Trichlorobenzene	<1	ug/l		4/30/10	BD
1,2,4-Trichlorobenzene	<1	ug/l		4/30/10	BD
1,1,1-Trichloroethane	<1	ug/l		4/30/10	BD
1,1,2-Trichloroethane	<1	ug/l		4/30/10	BD
Trichloroethene	1.8	ug/l		4/30/10	BD
Trichlorofluoromethane (Freon 11)	<1	ug/l		4/30/10	BD

- - LABORATORY ANALYSIS REPORT - -

Parsons *Syracuse, NY*

Sample ID: IRR-01 **LSL Sample ID:** 1006451-001

Location:

Sampled: 04/27/10 11:25 **Sampled By:** SBW

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 524.2 Volatile Organic Chemicals					
1,2,3-Trichloropropane	<1	ug/l		4/30/10	BD
1,2,4-Trimethylbenzene	<1	ug/l		4/30/10	BD
1,3,5-Trimethylbenzene	<1	ug/l		4/30/10	BD
Vinyl chloride	<1	ug/l		4/30/10	BD
Bromodichloromethane	<1	ug/l		4/30/10	BD
Bromoform	<1	ug/l		4/30/10	BD
Chloroform	<1	ug/l		4/30/10	BD
o-Xylene	<1	ug/l		4/30/10	BD
m-Xylene	<1	ug/l		4/30/10	BD
p-Xylene	<1	ug/l		4/30/10	BD
Dibromochloromethane	<1	ug/l		4/30/10	BD
Surrogate (1,2-DCA-d4)	103	%R		4/30/10	BD
Surrogate (4-BFB)	92	%R		4/30/10	BD

-- LABORATORY ANALYSIS REPORT --

Parsons Syracuse, NY

Sample ID: LCS **LSL Sample ID:** 1006451-002

Location:

Sampled: 04/28/10 0:00 **Sampled By:**

Sample Matrix: QC

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 524.2 Volatile Organic Chemicals					
Benzene	98	%R		4/30/10	BD
Bromobenzene	98	%R		4/30/10	BD
Bromochloromethane	108	%R		4/30/10	BD
Bromomethane	96	%R		4/30/10	BD
sec-Butylbenzene	93	%R		4/30/10	BD
n-Butylbenzene	86	%R		4/30/10	BD
tert-Butylbenzene	93	%R		4/30/10	BD
Carbon tetrachloride	91	%R		4/30/10	BD
Chlorobenzene	100	%R		4/30/10	BD
Chloroethane	103	%R		4/30/10	BD
Chloromethane	97	%R		4/30/10	BD
2-Chlorotoluene	90	%R		4/30/10	BD
4-Chlorotoluene	90	%R		4/30/10	BD
Dibromomethane	96	%R		4/30/10	BD
1,2-Dichlorobenzene	97	%R		4/30/10	BD
1,3-Dichlorobenzene	99	%R		4/30/10	BD
1,4-Dichlorobenzene	97	%R		4/30/10	BD
Dichlorodifluoromethane	113	%R		4/30/10	BD
1,1-Dichloroethane	92	%R		4/30/10	BD
1,2-Dichloroethane	93	%R		4/30/10	BD
cis-1,2-Dichloroethene	92	%R		4/30/10	BD
1,1-Dichloroethene	88	%R		4/30/10	BD
trans-1,2-Dichloroethene	84	%R		4/30/10	BD
1,2-Dichloropropane	92	%R		4/30/10	BD
1,3-Dichloropropane	93	%R		4/30/10	BD
2,2-Dichloropropane	82	%R		4/30/10	BD
1,1-Dichloropropene	82	%R		4/30/10	BD
cis-1,3-Dichloropropene	89	%R		4/30/10	BD
trans-1,3-Dichloropropene	88	%R		4/30/10	BD
Ethyl benzene	95	%R		4/30/10	BD
Hexachlorobutadiene	103	%R		4/30/10	BD
Isopropylbenzene (Cumene)	92	%R		4/30/10	BD
4-Isopropyl toluene (Cymene)	97	%R		4/30/10	BD
Methylene chloride	89	%R		4/30/10	BD
Naphthalene	88	%R		4/30/10	BD
n-Propylbenzene	93	%R		4/30/10	BD
Styrene	102	%R		4/30/10	BD
1,1,1,2-Tetrachloroethane	99	%R		4/30/10	BD
1,1,2,2-Tetrachloroethane	90	%R		4/30/10	BD
Tetrachloroethene	98	%R		4/30/10	BD
Toluene	95	%R		4/30/10	BD
1,2,3-Trichlorobenzene	96	%R		4/30/10	BD
1,2,4-Trichlorobenzene	99	%R		4/30/10	BD
1,1,1-Trichloroethane	95	%R		4/30/10	BD
1,1,2-Trichloroethane	97	%R		4/30/10	BD
Trichloroethene	93	%R		4/30/10	BD
Trichlorofluoromethane (Freon 11)	109	%R		4/30/10	BD

- - LABORATORY ANALYSIS REPORT - -

Parsons Syracuse, NY

Sample ID: LCS **LSL Sample ID:** 1006451-002

Location:

Sampled: 04/28/10 0:00 **Sampled By:**

Sample Matrix: QC

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 524.2 Volatile Organic Chemicals					
1,2,3-Trichloropropane	80	%R		4/30/10	BD
1,2,4-Trimethylbenzene	92	%R		4/30/10	BD
1,3,5-Trimethylbenzene	90	%R		4/30/10	BD
Vinyl chloride	104	%R		4/30/10	BD
Bromodichloromethane	98	%R		4/30/10	BD
Bromoform	97	%R		4/30/10	BD
Chloroform	100	%R		4/30/10	BD
o-Xylene	95	%R		4/30/10	BD
m-Xylene	98*	%R		4/30/10	BD
Chromatographically, para- and meta- xylene co-elute. The report values may represent either of these compounds or a combination thereof.					
p-Xylene	*	%R		4/30/10	BD
Dibromochloromethane	88	%R		4/30/10	BD
Surrogate (1,2-DCA-d4)	97	%R		4/30/10	BD
Surrogate (4-BFB)	89	%R		4/30/10	BD

- - LABORATORY ANALYSIS REPORT - -

Parsons Syracuse, NY

Sample ID: Method Blank **LSL Sample ID:** 1006451-003

Location:

Sampled: **Sampled By:**

Sample Matrix: QC

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 524.2 Volatile Organic Chemicals					
Benzene	<1	ug/l		4/30/10	BD
Bromobenzene	<1	ug/l		4/30/10	BD
Bromochloromethane	<1	ug/l		4/30/10	BD
Bromomethane	<1	ug/l		4/30/10	BD
sec-Butylbenzene	<1	ug/l		4/30/10	BD
n-Butylbenzene	<1	ug/l		4/30/10	BD
tert-Butylbenzene	<1	ug/l		4/30/10	BD
Carbon tetrachloride	<1	ug/l		4/30/10	BD
Chlorobenzene	<1	ug/l		4/30/10	BD
Chloroethane	<1	ug/l		4/30/10	BD
Chloromethane	<1	ug/l		4/30/10	BD
2-Chlorotoluene	<1	ug/l		4/30/10	BD
4-Chlorotoluene	<1	ug/l		4/30/10	BD
Dibromomethane	<1	ug/l		4/30/10	BD
1,2-Dichlorobenzene	<1	ug/l		4/30/10	BD
1,3-Dichlorobenzene	<1	ug/l		4/30/10	BD
1,4-Dichlorobenzene	<1	ug/l		4/30/10	BD
Dichlorodifluoromethane	<1	ug/l		4/30/10	BD
1,1-Dichloroethane	<1	ug/l		4/30/10	BD
1,2-Dichloroethane	<1	ug/l		4/30/10	BD
cis-1,2-Dichloroethene	<1	ug/l		4/30/10	BD
1,1-Dichloroethene	<1	ug/l		4/30/10	BD
trans-1,2-Dichloroethene	<1	ug/l		4/30/10	BD
1,2-Dichloropropane	<1	ug/l		4/30/10	BD
1,3-Dichloropropane	<1	ug/l		4/30/10	BD
2,2-Dichloropropane	<1	ug/l		4/30/10	BD
1,1-Dichloropropene	<1	ug/l		4/30/10	BD
cis-1,3-Dichloropropene	<1	ug/l		4/30/10	BD
trans-1,3-Dichloropropene	<1	ug/l		4/30/10	BD
Ethyl benzene	<1	ug/l		4/30/10	BD
Hexachlorobutadiene	<1	ug/l		4/30/10	BD
Isopropylbenzene (Cumene)	<1	ug/l		4/30/10	BD
4-Isopropyl toluene (Cymene)	<1	ug/l		4/30/10	BD
Methylene chloride	<2	ug/l		4/30/10	BD
Naphthalene	<1	ug/l		4/30/10	BD
n-Propylbenzene	<1	ug/l		4/30/10	BD
Styrene	<1	ug/l		4/30/10	BD
1,1,1,2-Tetrachloroethane	<1	ug/l		4/30/10	BD
1,1,2,2-Tetrachloroethane	<1	ug/l		4/30/10	BD
Tetrachloroethene	<1	ug/l		4/30/10	BD
Toluene	<1	ug/l		4/30/10	BD
1,2,3-Trichlorobenzene	<1	ug/l		4/30/10	BD
1,2,4-Trichlorobenzene	<1	ug/l		4/30/10	BD
1,1,1-Trichloroethane	<1	ug/l		4/30/10	BD
1,1,2-Trichloroethane	<1	ug/l		4/30/10	BD
Trichloroethene	<1	ug/l		4/30/10	BD
Trichlorofluoromethane (Freon 11)	<1	ug/l		4/30/10	BD

-- LABORATORY ANALYSIS REPORT --

Parsons Syracuse, NY

Sample ID: Method Blank **LSL Sample ID:** 1006451-003

Location:

Sampled: **Sampled By:**

Sample Matrix: QC

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 524.2 Volatile Organic Chemicals					
1,2,3-Trichloropropane	<1	ug/l		4/30/10	BD
1,2,4-Trimethylbenzene	<1	ug/l		4/30/10	BD
1,3,5-Trimethylbenzene	<1	ug/l		4/30/10	BD
Vinyl chloride	<1	ug/l		4/30/10	BD
Bromodichloromethane	<1	ug/l		4/30/10	BD
Bromoform	<1	ug/l		4/30/10	BD
Chloroform	<1	ug/l		4/30/10	BD
o-Xylene	<1	ug/l		4/30/10	BD
m-Xylene	<1	ug/l		4/30/10	BD
p-Xylene	<1	ug/l		4/30/10	BD
Dibromochloromethane	<1	ug/l		4/30/10	BD
Surrogate (1,2-DCA-d4)	101	%R		4/30/10	BD
Surrogate (4-BFB)	94	%R		4/30/10	BD

REVISED 5/24/10

-- LABORATORY ANALYSIS REPORT --

Parsons Syracuse, NY

Sample ID: IRR-01 **LSL Sample ID:** 1006452-002

Location:

Sampled: 04/27/10 11:25 **Sampled By:** SBW

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	MDL	Prep Date	Analysis Date & Time		Analyst Initials
(1) EPA 140.1, Odor							
Odor	<1	T.O.N.			4/29/10	08:34	TER
(1) EPA 180.1 Turbidity							
Turbidity	6.9	NTU			4/28/10	12:35	DDR
(1) EPA 8082 PCB's							
Aroclor-1016	<0.05	ug/l	0.002	5/3/10	5/20/10		STS
Aroclor-1221	<0.05	ug/l	0.01	5/3/10	5/20/10		STS
Aroclor-1232	<0.05	ug/l	0.006	5/3/10	5/20/10		STS
Aroclor-1242	<0.05	ug/l	0.008	5/3/10	5/20/10		STS
Aroclor-1248	<0.05	ug/l	0.01	5/3/10	5/20/10		STS
Aroclor-1254	<0.05	ug/l	0.01	5/3/10	5/20/10		STS
Aroclor-1260	<0.05	ug/l	0.002	5/3/10	5/20/10		STS
Surrogate (DCB)	111	%R		5/3/10	5/6/10		STS
(1) EPA Method 200.8 Metals							
Please refer to the next page							
(1) SM 18-21 4500-H B (00) pH							
pH	6.8	Std. Units			4/28/10	11:14	RD
pH Measurement Temperature	25	Degrees C			4/28/10	11:14	RD

NYS DOH ELAP and NELAC specifications require pH to be measured immediately at the time of sample collection. Any laboratory analysis of pH should be considered to be performed past its holding time.

(1) SM18 2120B, Color							
Apparent Color	<5.0	Units			4/29/10	08:16	JJC
(1) SM18-2540C Total Dissolved Solids							
Total Dissolved Solids @ 180 C	380	mg/l		4/29/10	4/29/10	13:51	MM
(1) Total Coliform by Readycult Method							
Total Coliform	Negative				4/28/10	10:40	CVB
E. coli Screen	Negative				4/28/10	10:40	CVB

Sample ID: SW-4 (2010) **LSL Sample ID:** 1006452-003

Location:

Sampled: 04/27/10 15:00 **Sampled By:** SBW

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	MDL	Prep Date	Analysis Date & Time		Analyst Initials
(1) EPA 8270 Semi-Volatiles (Partial List)							
bis(2-Ethylhexyl)phthalate	0.7 J	ug/l	0.4	5/3/10	5/7/10		MEG
J = estimated value.							
Surrogate (2-Fluorophenol)	78	%R		5/3/10	5/7/10		MEG
Surrogate (Phenol-d5)	76	%R		5/3/10	5/7/10		MEG
Surrogate (2,4,6-Tribromophenol)	141	%R		5/3/10	5/7/10		MEG
Surrogate (Nitrobenzene-d5)	88	%R		5/3/10	5/7/10		MEG
Surrogate (2-Fluorobiphenyl)	100	%R		5/3/10	5/7/10		MEG
Surrogate (Terphenyl-d14)	112	%R		5/3/10	5/7/10		MEG

Life Science Laboratories, Inc.

Date Printed: 5/24/10

Analysis performed at: *(1) LSL Central, (2) LSL North, (3) LSL Finger Lakes, (4) LSL Southern Tier, (5) LSL MidLakes*

REVISED
5/24/10

Life Science Laboratories, Inc.

5854 Butternut Drive
East Syracuse, NY 13057 (315) 445-1105

Analytical Results

StateCertNo: 10248

CLIENT:	Life Science Labs-LIMS	**Lab ID:**	**K1004348-001A**
Project:	1006452-ParsonsEngScience	**Client Sample ID:**	*IRR-01*
W Order:	K1004348	**Collection Date:**	04/27/10 11:25
Matrix:	WATER	**Date Received:**	04/28/10 9:54
Inst. ID:	ICPMS ELAN 6100	**Sample Size:** 50 mL	**PrepDate:** 04/29/10 0:00
ColumnID:		**%Moisture:**	**BatchNo:** 11150/R19814
Revision:	05/04/10 10:30	**TestCode** 200.8_NPW	**FileID:** 1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
METALS BY ICPMS				**EPA 200.8**		**(E200.2)**
Lead	ND		0.0020	mg/L	2	05/03/10 14:51

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: 05/04/10 15:33 506887 **Project Supervisor:** Pamela J. Titus

REVISED 5/24/10

-- LABORATORY ANALYSIS REPORT --

Parsons Syracuse, NY

Sample ID: Trip Blank **LSL Sample ID:** 1006452-004

Location:

Sampled: 04/27/10 0:00 **Sampled By:**

Sample Matrix: TB

Analytical Method / Analyte	Result	Units	MDL	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 524.2 Volatile Organic Chemicals						
Benzene	<1	ug/l	1		4/30/10	BD
Bromobenzene	<1	ug/l	1		4/30/10	BD
Bromochloromethane	<1	ug/l	1		4/30/10	BD
Bromomethane	<1	ug/l	1		4/30/10	BD
sec-Butylbenzene	<1	ug/l	1		4/30/10	BD
n-Butylbenzene	<1	ug/l	1		4/30/10	BD
tert-Butylbenzene	<1	ug/l	1		4/30/10	BD
Carbon tetrachloride	<1	ug/l	1		4/30/10	BD
Chlorobenzene	<1	ug/l	1		4/30/10	BD
Chloroethane	<1	ug/l	1		4/30/10	BD
Chloromethane	<1	ug/l	1		4/30/10	BD
2-Chlorotoluene	<1	ug/l	1		4/30/10	BD
4-Chlorotoluene	<1	ug/l	1		4/30/10	BD
Dibromomethane	<1	ug/l	1		4/30/10	BD
1,2-Dichlorobenzene	<1	ug/l	1		4/30/10	BD
1,3-Dichlorobenzene	<1	ug/l	1		4/30/10	BD
1,4-Dichlorobenzene	<1	ug/l	1		4/30/10	BD
Dichlorodifluoromethane	<1	ug/l	1		4/30/10	BD
1,1-Dichloroethane	<1	ug/l	1		4/30/10	BD
1,2-Dichloroethane	<1	ug/l	1		4/30/10	BD
cis-1,2-Dichloroethene	<1	ug/l	1		4/30/10	BD
1,1-Dichloroethene	<1	ug/l	1		4/30/10	BD
trans-1,2-Dichloroethene	<1	ug/l	1		4/30/10	BD
1,2-Dichloropropane	<1	ug/l	1		4/30/10	BD
1,3-Dichloropropane	<1	ug/l	1		4/30/10	BD
2,2-Dichloropropane	<1	ug/l	1		4/30/10	BD
1,1-Dichloropropene	<1	ug/l	1		4/30/10	BD
cis-1,3-Dichloropropene	<1	ug/l	1		4/30/10	BD
trans-1,3-Dichloropropene	<1	ug/l	1		4/30/10	BD
Ethyl benzene	<1	ug/l	1		4/30/10	BD
Hexachlorobutadiene	<1	ug/l	1		4/30/10	BD
Isopropylbenzene (Cumene)	<1	ug/l	1		4/30/10	BD
4-Isopropyl toluene (Cymene)	<1	ug/l	1		4/30/10	BD
Methylene chloride	<2	ug/l	2		4/30/10	BD
Naphthalene	<1	ug/l	1		4/30/10	BD
n-Propylbenzene	<1	ug/l	1		4/30/10	BD
Styrene	<1	ug/l	1		4/30/10	BD
1,1,1,2-Tetrachloroethane	<1	ug/l	1		4/30/10	BD
1,1,2,2-Tetrachloroethane	<1	ug/l	1		4/30/10	BD
Tetrachloroethene	<1	ug/l	1		4/30/10	BD
Toluene	<1	ug/l	1		4/30/10	BD
1,2,3-Trichlorobenzene	<1	ug/l	1		4/30/10	BD
1,2,4-Trichlorobenzene	<1	ug/l	1		4/30/10	BD
1,1,1-Trichloroethane	<1	ug/l	1		4/30/10	BD
1,1,2-Trichloroethane	<1	ug/l	1		4/30/10	BD
Trichloroethene	<1	ug/l	1		4/30/10	BD
Trichlorofluoromethane (Freon 11)	<1	ug/l	1		4/30/10	BD

Life Science Laboratories, Inc.

Date Printed: 5/24/10

Analysis performed at: *(1) LSL Central, (2) LSL North, (3) LSL Finger Lakes, (4) LSL Southern Tier, (5) LSL MidLakes*

REVISED 5/24/10

-- LABORATORY ANALYSIS REPORT --

Parsons Syracuse, NY

Sample ID: Trip Blank **LSL Sample ID:** 1006452-004

Location:

Sampled: 04/27/10 0:00 **Sampled By:**

Sample Matrix: TB

Analytical Method / Analyte	Result	Units	MDL	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 524.2 Volatile Organic Chemicals						
1,2,3-Trichloropropane	<1	ug/l	1		4/30/10	BD
1,2,4-Trimethylbenzene	<1	ug/l	1		4/30/10	BD
1,3,5-Trimethylbenzene	<1	ug/l	1		4/30/10	BD
Vinyl chloride	<1	ug/l	1		4/30/10	BD
Bromodichloromethane	<1	ug/l	1		4/30/10	BD
Bromoform	<1	ug/l	1		4/30/10	BD
Chloroform	<1	ug/l	1		4/30/10	BD
o-Xylene	<1	ug/l	1		4/30/10	BD
m-Xylene	<1	ug/l	1		4/30/10	BD
p-Xylene	<1	ug/l	1		4/30/10	BD
Dibromochloromethane	<1	ug/l	1		4/30/10	BD
Surrogate (1,2-DCA-d4)	106	%R			4/30/10	BD
Surrogate (4-BFB)	94	%R			4/30/10	BD

Life Science Laboratories, Inc.

Date Printed: 5/24/10

Analysis performed at: *(1) LSL Central, (2) LSL North, (3) LSL Finger Lakes, (4) LSL Southern Tier, (5) LSL MidLakes*

REVISED 5/24/10

-- LABORATORY ANALYSIS REPORT --

Parsons Syracuse, NY

Sample ID: LCS **LSL Sample ID:** 1006452-005

Location:

Sampled: 04/28/10 0:00 **Sampled By:**

Sample Matrix: QC

Analytical Method / Analyte	Result	Units	MDL	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 524.2 Volatile Organic Chemicals						
Benzene	98	%R			4/30/10	BD
Bromobenzene	98	%R			4/30/10	BD
Bromochloromethane	108	%R			4/30/10	BD
Bromomethane	96	%R			4/30/10	BD
sec-Butylbenzene	93	%R			4/30/10	BD
n-Butylbenzene	86	%R			4/30/10	BD
tert-Butylbenzene	93	%R			4/30/10	BD
Carbon tetrachloride	91	%R			4/30/10	BD
Chlorobenzene	100	%R			4/30/10	BD
Chloroethane	103	%R			4/30/10	BD
Chloromethane	97	%R			4/30/10	BD
2-Chlorotoluene	90	%R			4/30/10	BD
4-Chlorotoluene	90	%R			4/30/10	BD
Dibromomethane	96	%R			4/30/10	BD
1,2-Dichlorobenzene	97	%R			4/30/10	BD
1,3-Dichlorobenzene	99	%R			4/30/10	BD
1,4-Dichlorobenzene	97	%R			4/30/10	BD
Dichlorodifluoromethane	113	%R			4/30/10	BD
1,1-Dichloroethane	92	%R			4/30/10	BD
1,2-Dichloroethane	93	%R			4/30/10	BD
cis-1,2-Dichloroethene	92	%R			4/30/10	BD
1,1-Dichloroethene	88	%R			4/30/10	BD
trans-1,2-Dichloroethene	84	%R			4/30/10	BD
1,2-Dichloropropane	92	%R			4/30/10	BD
1,3-Dichloropropane	93	%R			4/30/10	BD
2,2-Dichloropropane	82	%R			4/30/10	BD
1,1-Dichloropropene	82	%R			4/30/10	BD
cis-1,3-Dichloropropene	89	%R			4/30/10	BD
trans-1,3-Dichloropropene	88	%R			4/30/10	BD
Ethyl benzene	95	%R			4/30/10	BD
Hexachlorobutadiene	103	%R			4/30/10	BD
Isopropylbenzene (Cumene)	92	%R			4/30/10	BD
4-Isopropyl toluene (Cymene)	97	%R			4/30/10	BD
Methylene chloride	89	%R			4/30/10	BD
Naphthalene	88	%R			4/30/10	BD
n-Propylbenzene	93	%R			4/30/10	BD
Styrene	102	%R			4/30/10	BD
1,1,1,2-Tetrachloroethane	99	%R			4/30/10	BD
1,1,2,2-Tetrachloroethane	90	%R			4/30/10	BD
Tetrachloroethene	98	%R			4/30/10	BD
Toluene	95	%R			4/30/10	BD
1,2,3-Trichlorobenzene	96	%R			4/30/10	BD
1,2,4-Trichlorobenzene	99	%R			4/30/10	BD
1,1,1-Trichloroethane	95	%R			4/30/10	BD
1,1,2-Trichloroethane	97	%R			4/30/10	BD
Trichloroethene	93	%R			4/30/10	BD
Trichlorofluoromethane (Freon 11)	109	%R			4/30/10	BD

Life Science Laboratories, Inc.

Date Printed: 5/24/10

Analysis performed at: *(1) LSL Central, (2) LSL North, (3) LSL Finger Lakes, (4) LSL Southern Tier, (5) LSL MidLakes*

REVISED 5/24/10

-- LABORATORY ANALYSIS REPORT --

Parsons Syracuse, NY

Sample ID: LCS **LSL Sample ID:** 1006452-005

Location:

Sampled: 04/28/10 0:00 **Sampled By:**

Sample Matrix: QC

Analytical Method / Analyte	Result	Units	MDL	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 524.2 Volatile Organic Chemicals						
1,2,3-Trichloropropane	80	%R			4/30/10	BD
1,2,4-Trimethylbenzene	92	%R			4/30/10	BD
1,3,5-Trimethylbenzene	90	%R			4/30/10	BD
Vinyl chloride	104	%R			4/30/10	BD
Bromodichloromethane	98	%R			4/30/10	BD
Bromoform	97	%R			4/30/10	BD
Chloroform	100	%R			4/30/10	BD
o-Xylene	95	%R			4/30/10	BD
m-Xylene	98*	%R			4/30/10	BD
Chromatographically, para- and meta- xylene co-elute. The report values may represent either of these compounds or a combination thereof.						
p-Xylene	*	%R			4/30/10	BD
Dibromochloromethane	88	%R			4/30/10	BD
Surrogate (1,2-DCA-d4)	97	%R			4/30/10	BD
Surrogate (4-BFB)	89	%R			4/30/10	BD
(1) EPA 8082 PCB's						
Aroclor-1016	105	%R		5/3/10	5/6/10	STS
Aroclor-1221				5/3/10	5/6/10	STS
Aroclor-1232				5/3/10	5/6/10	STS
Aroclor-1242				5/3/10	5/6/10	STS
Aroclor-1248				5/3/10	5/6/10	STS
Aroclor-1254				5/3/10	5/6/10	STS
Aroclor-1260	115	%R		5/3/10	5/6/10	STS
Surrogate (DCB)	116	%R		5/3/10	5/6/10	STS
(1) EPA 8270 Semi-Volatiles (Partial List)						
bis(2-Ethylhexyl)phthalate	88	%R		5/3/10	5/7/10	MEG
Surrogate (2-Fluorophenol)	83	%R		5/3/10	5/7/10	MEG
Surrogate (Phenol-d5)	83	%R		5/3/10	5/7/10	MEG
Surrogate (2,4,6-Tribromophenol)	151	%R		5/3/10	5/7/10	MEG
Surrogate (Nitrobenzene-d5)	90	%R		5/3/10	5/7/10	MEG
Surrogate (2-Fluorobiphenyl)	101	%R		5/3/10	5/7/10	MEG
Surrogate (Terphenyl-d14)	112	%R		5/3/10	5/7/10	MEG
(1) EPA Method 200.8 Metals						

Please refer to the next page

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5/24/10

Life Science Laboratories, Inc.

5854 Butternut Drive
East Syracuse, NY 13057 (315) 445-1105

ANALYTICAL QC SUMMARY REPORT

Method: EPA 200.8
Work Order: K1004348
Project: 1006452-ParsonsEngScience

CLIENT: Life Science Labs-LIMS

Sample ID: LCS-11150	SampType: LCS	TestCode: 200.8_NPW	Units: mg/L	Prep Date: 4/29/2010	RunNo: 19814		
Client ID: ZZZZZ	Batch ID: 11150	Method: EPA 200.8	(E200.2)	Analysis Date: 5/3/2010	SeqNo: 506886		
Instrument:	ColumnID:						

Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.05	0.0020	1	0	105	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				

Date: *04-May-10*

REVISED 5/24/10

-- LABORATORY ANALYSIS REPORT --

Parsons Syracuse, NY

Sample ID: Method Blank **LSL Sample ID:** 1006452-006

Location:

Sampled: 04/28/10 0:00 **Sampled By:**

Sample Matrix: QC

Analytical Method / Analyte	Result	Units	MDL	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 524.2 Volatile Organic Chemicals						
Benzene	<1	ug/l	1		4/30/10	BD
Bromobenzene	<1	ug/l	1		4/30/10	BD
Bromochloromethane	<1	ug/l	1		4/30/10	BD
Bromomethane	<1	ug/l	1		4/30/10	BD
sec-Butylbenzene	<1	ug/l	1		4/30/10	BD
n-Butylbenzene	<1	ug/l	1		4/30/10	BD
tert-Butylbenzene	<1	ug/l	1		4/30/10	BD
Carbon tetrachloride	<1	ug/l	1		4/30/10	BD
Chlorobenzene	<1	ug/l	1		4/30/10	BD
Chloroethane	<1	ug/l	1		4/30/10	BD
Chloromethane	<1	ug/l	1		4/30/10	BD
2-Chlorotoluene	<1	ug/l	1		4/30/10	BD
4-Chlorotoluene	<1	ug/l	1		4/30/10	BD
Dibromomethane	<1	ug/l	1		4/30/10	BD
1,2-Dichlorobenzene	<1	ug/l	1		4/30/10	BD
1,3-Dichlorobenzene	<1	ug/l	1		4/30/10	BD
1,4-Dichlorobenzene	<1	ug/l	1		4/30/10	BD
Dichlorodifluoromethane	<1	ug/l	1		4/30/10	BD
1,1-Dichloroethane	<1	ug/l	1		4/30/10	BD
1,2-Dichloroethane	<1	ug/l	1		4/30/10	BD
cis-1,2-Dichloroethene	<1	ug/l	1		4/30/10	BD
1,1-Dichloroethene	<1	ug/l	1		4/30/10	BD
trans-1,2-Dichloroethene	<1	ug/l	1		4/30/10	BD
1,2-Dichloropropane	<1	ug/l	1		4/30/10	BD
1,3-Dichloropropane	<1	ug/l	1		4/30/10	BD
2,2-Dichloropropane	<1	ug/l	1		4/30/10	BD
1,1-Dichloropropene	<1	ug/l	1		4/30/10	BD
cis-1,3-Dichloropropene	<1	ug/l	1		4/30/10	BD
trans-1,3-Dichloropropene	<1	ug/l	1		4/30/10	BD
Ethyl benzene	<1	ug/l	1		4/30/10	BD
Hexachlorobutadiene	<1	ug/l	1		4/30/10	BD
Isopropylbenzene (Cumene)	<1	ug/l	1		4/30/10	BD
4-Isopropyl toluene (Cymene)	<1	ug/l	1		4/30/10	BD
Methylene chloride	<2	ug/l	2		4/30/10	BD
Naphthalene	<1	ug/l	1		4/30/10	BD
n-Propylbenzene	<1	ug/l	1		4/30/10	BD
Styrene	<1	ug/l	1		4/30/10	BD
1,1,1,2-Tetrachloroethane	<1	ug/l	1		4/30/10	BD
1,1,2,2-Tetrachloroethane	<1	ug/l	1		4/30/10	BD
Tetrachloroethene	<1	ug/l	1		4/30/10	BD
Toluene	<1	ug/l	1		4/30/10	BD
1,2,3-Trichlorobenzene	<1	ug/l	1		4/30/10	BD
1,2,4-Trichlorobenzene	<1	ug/l	1		4/30/10	BD
1,1,1-Trichloroethane	<1	ug/l	1		4/30/10	BD
1,1,2-Trichloroethane	<1	ug/l	1		4/30/10	BD
Trichloroethene	<1	ug/l	1		4/30/10	BD
Trichlorofluoromethane (Freon 11)	<1	ug/l	1		4/30/10	BD

Life Science Laboratories, Inc.

Date Printed: 5/24/10

Analysis performed at: *(1) LSL Central, (2) LSL North, (3) LSL Finger Lakes, (4) LSL Southern Tier, (5) LSL MidLakes*

REVISED 5/24/10

-- LABORATORY ANALYSIS REPORT --

Parsons Syracuse, NY

Sample ID: Method Blank **LSL Sample ID:** 1006452-006

Location:

Sampled: 04/28/10 0:00 **Sampled By:**

Sample Matrix: QC

Analytical Method / Analyte	Result	Units	MDL	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 524.2 Volatile Organic Chemicals						
1,2,3-Trichloropropane	<1	ug/l	1		4/30/10	BD
1,2,4-Trimethylbenzene	<1	ug/l	1		4/30/10	BD
1,3,5-Trimethylbenzene	<1	ug/l	1		4/30/10	BD
Vinyl chloride	<1	ug/l	1		4/30/10	BD
Bromodichloromethane	<1	ug/l	1		4/30/10	BD
Bromoform	<1	ug/l	1		4/30/10	BD
Chloroform	<1	ug/l	1		4/30/10	BD
o-Xylene	<1	ug/l	1		4/30/10	BD
m-Xylene	<1	ug/l	1		4/30/10	BD
p-Xylene	<1	ug/l	1		4/30/10	BD
Dibromochloromethane	<1	ug/l	1		4/30/10	BD
Surrogate (1,2-DCA-d4)	101	%R			4/30/10	BD
Surrogate (4-BFB)	94	%R	1		4/30/10	BD
(1) EPA 8082 PCB's						
Aroclor-1016	<0.05	ug/l	0.001	5/3/10	5/20/10	STS
Aroclor-1221	<0.05	ug/l	0.01	5/3/10	5/20/10	STS
Aroclor-1232	<0.05	ug/l	0.006	5/3/10	5/20/10	STS
Aroclor-1242	<0.05	ug/l	0.008	5/3/10	5/20/10	STS
Aroclor-1248	<0.05	ug/l	0.01	5/3/10	5/20/10	STS
Aroclor-1254	<0.05	ug/l	0.01	5/3/10	5/20/10	STS
Aroclor-1260	<0.05	ug/l	0.001	5/3/10	5/20/10	STS
Surrogate (DCB)	113	%R		5/3/10	5/6/10	STS
(1) EPA 8270 Semi-Volatiles (Partial List)						
bis(2-Ethylhexyl)phthalate	5.0	ug/l	0.4	5/3/10	5/7/10	MEG
Surrogate (2-Fluorophenol)	72	%R		5/3/10	5/7/10	MEG
Surrogate (Phenol-d5)	70	%R		5/3/10	5/7/10	MEG
Surrogate (2,4,6-Tribromophenol)	147	%R		5/3/10	5/7/10	MEG
Surrogate (Nitrobenzene-d5)	78	%R		5/3/10	5/7/10	MEG
Surrogate (2-Fluorobiphenyl)	87	%R		5/3/10	5/7/10	MEG
Surrogate (Terphenyl-d14)	132	%R		5/3/10	5/7/10	MEG
(1) EPA Method 200.8 Metals						
Please refer to the next page						
(1) SM18-2540C Total Dissolved Solids						
Total Dissolved Solids @ 180 C	<10	mg/l		4/29/10	4/29/10 13:49	MM

REVISED
5/24/10

Life Science Laboratories, Inc.

5854 Butternut Drive
East Syracuse, NY 13057 (315) 445-1105

ANALYTICAL QC SUMMARY REPORT

Method: EPA 200.8
Work Order: K1004348
CLIENT: Life Science Labs-LIMS **Project:** 1006452-ParsonsEngScience

Sample ID: MB-11150	SampType: MBLK	TestCode: 200.8_NPW	Units: mg/L	Prep Date: 4/29/2010	RunNo: 19814			
Client ID: ZZZZZ	Batch ID: 11150	Method: EPA 200.8	(E200.2)	Analysis Date: 5/3/2010	SeqNo: 506885			
Instrument:	ColumnID:							

Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.0020									

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				

Date: *04-May-10*

Life Science Laboratories, Inc.
5854 Butternut Drive
East Syracuse, NY 13057
Phone # (315) 445-1105 Telefax # (315) 445-1301

Chain of Custody Record

1006452

ParsonsEngScience

Client: Parsons - NYSC Phone # 315-451-9560
Address: 301 Plainfield Rd. Fax # 315-451-9570
Suite 350
Syracuse, NY 13212

Authorization:

Contact Person:

LSL Project #: K1004348

Client's Site I.D.: SADNA - Schenectady Depot

Client's Project I.D.: 74 3440 .00011

LSL Sample Number	Client's Sample Identifications	Sample Date	Sample Time	Type: grab	Type: comp.	Matrix	Preserv. Added	Containers: #	Containers: size/type	Analyses	Free Cl (mg/L)	Pres. Check
001 A-E	MW-9	4-27-10	1335	X		Water	Pres. By Lab	5	40 ml VOA vials	VOC(524.2), Color, Odor, Bacteria, Turb., pH, TDS		
002 A-~~E~~d	IRR-01	↓	1125	X		Water	↓	7	various	VOCs, Color, Odor, Bacteria, Turb., pH, TDS, PCB, Pb		
003 AB	SW-4 (2010)	↓	1300	X		Water		2	1 liter glass	BEHP		
004 AB	Trip Blank TB-1	4-27-10		X		Water		2	40 ml glass	VOCs		
005	LCS									524.2 PCB, 625 BEHP Pb		
006	method blank									524.2, PCB, 625 BEHP, TDS Pb		
IRR VOC's on seperate report.		100645										

Notes and Hazard Identifications:
See order for methods and turn around time.

Custody Transfers		Date	Time
Sampled By: [signature]	Received By:	4-27-10	17:30
Relinquished By:	Received By:		
Relinquished By:	Received for Lab By: [signature]	04-28-10	09:54 RCVD

Shipment Method: Via cups
Samples Received Intact: (Y) N
3.6°C on ice